

### **General Information**

| NMOCD District: | District 2                          | Incident ID:   | nKMW1109729911                 |
|-----------------|-------------------------------------|----------------|--------------------------------|
| Landowner:      | Mosaic Potash Carlsbad, Inc.        | RP Reference:  | 2RP-719                        |
| Client:         | Devon Energy Production Company, LP | Site Location: | Laguna Salado 22 Federal #004H |
| Date:           | December 14, 2024                   | Project #:     | 23E-01414-02                   |
| Client Contact: | Jim Raley                           | Phone #:       | 575-689-7597                   |
| Vertex PM:      | Chad Hensley                        | Phone #:       | 575-200-6172                   |

#### Objective

The objective of the Environmental Site Remediation Workplan is to identify areas of exceedance for areas of concern after a site investigation where background samples were collected determine potential chloride levels to address the open releases for the Laguna Salado 22 Federal #004H (hereafter referred to as "Laguna Salado 4"). The areas of environmental concern include a flowline from Laguna Salado 4 that was observed spraying liquid off pad. Devon Energy Production Company, LP provided notification of the release to New Mexico Oil Conservation Division (NMOCD) District 2 via a Notification of Release. The initial C-141 Release Notifications was submitted on September 15, 2009 (Attachment 1). Closure criteria have been selected as per New Mexico Administrative Code (NMAC) 19.15.29.12. All applicable research as it pertains to closure criteria selection is presented in Attachment 2. The closure criteria for the site are presented below (Table 1).

| Table 1. Closure Criteria for Soils Impacted by a Release  |                   |              |  |  |  |  |  |  |  |
|--|-------------------|--------------|--|--|--|--|--|--|--|
| Minimum depth below any point within the<br>horizontal boundary of the release to groundwater<br>less than 10,000 mg/l TDS | Constituent       | Limit        |  |  |  |  |  |  |  |
|  | Chloride          | 20,000 mg/kg |  |  |  |  |  |  |  |
|  | TPH (GRO+DRO+MRO) | 100 mg/kg    |  |  |  |  |  |  |  |
| < 50 feet  | BTEX              | 50 mg/kg     |  |  |  |  |  |  |  |
|  | Benzene           | 10 mg/kg     |  |  |  |  |  |  |  |

TDS - Total dissolved solids

TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) BTEX - Benzene, toluene, ethylbenzene, and xylenes

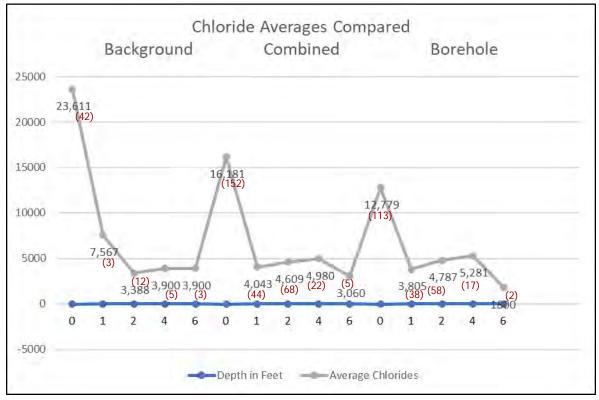
#### Site Assessment/Characterization

Site characterization was concluded on July 21, 2023. A total of 21 sample points were established and 52 samples collected for field screening. Based on the description of the release area, samples were collected within the area of staining around repaired flowline, working outward. Samples collected within and outside of staining yielded results with difficult to distinguish differences; therefore, background samples were collected near the site. Of the twenty-one sample points established, three were background sample points. All samples, including at the deepest vertical distance investigated, were submitted to the laboratory for analysis. All sample points are presented in Figure 1 (Attachment 3). Laboratory analysis results have been compared to noted closure criteria in Tables 1 and 2 and the results from the characterization activity are presented in Table 3 in (Attachment 4).

#### **Background Sampling**

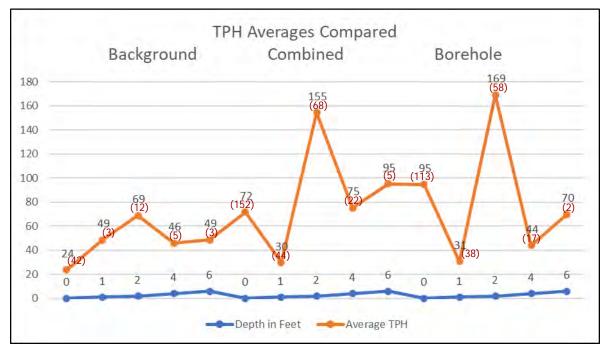
The surrounding landscape includes salt lakes, surface evaporites and gypsum outcrops. Based on site research for Laguna Salado 4, and the historical and current use of the area in which Laguna Salado 4 is located, as well as information from the New Mexico Energy, Minerals and Natural Resources Department and New Mexico Bureau of Geology and Mineral Resources included in Attachment 2, Vertex Resource

Services Inc. (Vertex) determined that there is potential for existing background chlorides to exceed remediation criteria as outlined in Table 1. The investigation of background chlorides, in an attempt to determine a distinction between chlorides found from the release and the natural background chlorides, resulted in laboratory analysis of the background samples with naturally elevated chloride levels compared to the strictest criteria and those found in and around areas of release indicated by the C-141 report. Samples were collected in three separate but similar locations, along various slopes, and elevations, and at various depths. Sample locations are presented on Figure 2 (Attachment 3). Results were then compared in groups of Background Samples, a total combination of all samples and samples collected in and around suspected release location in an attempt to delineate the release. The background sample laboratory data findings are included in Graph 1 for chlorides and Graph 2 for TPH. The data support evidence that background chloride results are higher than New Mexico Oil Conservation Division (NMOCD) strictest criteria values and appear to be higher than samples collected while investigating the suspected release location. Total petroleum hydrocarbon levels are elevated in isolated areas near the reported release.



Graph 1. Chloride Averages Compared – Lab results were compared in groups of Background Samples, a total combination of all samples and samples collected in and around suspected release location in an attempt to delineate the release. Samples were subdivided into respective depths, shown along the blue line, and averaged, shown along the gray line. Samples with lab results of "ND," or Not Detected, were substituted with zero.

\* Red numbers represent total number of samples averaged per each depth.



Graph 2. Total Petroleum Hydrocarbons (TPH) Averages Compared – Results were compared in groups of Background Samples, a total combination of all samples and samples collected in and around suspected release location in an attempt to delineate the release. Samples were subdivided into respective depths, shown along the blue line, and averaged, shown along the orange line. TPH was compared with lab result data and field screen (Dexsil Petroflag) where numerical value was available and where both were available, the greater number was used. Samples with lab results of "ND," or Not Detected, were substituted with zero. \*Red numbers represent total number of samples averaged per each depth.

The background sample laboratory data are included in Table 4 (Attachment 5). The laboratory data reports are also included in Attachment 5. Daily field reports are included in Attachment 6. According to the 19.15.29.12 NMAC – Closure Criteria for Soils Impacted by a Release table, "numerical limits or natural background level, whichever is greater" may be used to determine the level of remediation required for a release for chlorides. Due to the findings and the wide variation of chloride naturally occurring on the surface at concentrations ranging from not detected to 140,000 ppm and in subsurface areas at concentrations ranging from 660 ppm to 13,000 ppm, adjusted closure criteria limits for soils impacted by the release are required.

Background samples collected specifically around Laguna Salado 4 for requested adjusted closure criteria limits are presented in Table 1. No changes were made to the constituent limits for TPH, BTEX, or benzene. The area around the Laguna Salado 4 release point is vegetated with downhill slopes, becoming drainage low points where there are observable natural salt deposits outside of the release area. The release point is within a drainage low point which slopes downward from north to south. Since background samples represent the area as whole, hill side, hilltop, and valley edge, Vertex is requesting to use the background sample results from sample BG23-02. This sample better represents a similar location to the release point and thus a similar natural background chloride level than the other background samples, rather than to use an average of the three diverse samples.

Additionally, water levels in this area are shallow. Excavation at this site, greater than four feet below ground surface, may create hydraulic connectivity with the release constituents of concern, which could disturb the in-situ condition and potentially spread the release. This is not recommended.

TDS - Total dissolved solids

TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) BTEX - Benzene, toluene, ethylbenzene, and xylenes



#### **Remedial Activities**

Areas identified with contaminant concentrations above the adjusted closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Field screening will be utilized to confirm the removal of any TPH contaminated soil below the applicable closure criteria and utilized to confirm the removal of chloride contaminated soil below the requested adjusted closure criteria. Once excavation is complete, confirmatory samples will be collected utilizing a five-point composite sampling method, obtaining both base and wall samples, in correspondence with paragraph 1 of Subsection D of 19.15.29.12 NMAC, to confirm removal of contaminated soil below the applicable closure criteria. The confirmatory samples will be placed into laboratory-provided containers, preserved on ice and submitted to a National Environmental Laboratory Accreditation Program laboratory for chemical analysis. Laboratory analyses will include Method 300.0 for chlorides, Method 8021B for volatile organics, including benzene and BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Contaminated soils will be stored on a 30-mil liner prior to disposal at an approved facility. The excavation will be backfilled with clean soil sourced locally.

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A total of 18 sample points were established for analysis off pad, along the flowline, and within and around staining. Exceedances to closure criteria were found in the pasture at sample points BH23-01, BH23-02, BH23-03, BH23-04, BH23-05, BH23-08, BH23-11, BH23-12, BH23-14, BH23-15, BH23-16 and BH23-18. Samples points BH23-04, BH23-05, BH23-08 will be excavated to 1 foot. Sample points BH23-01, BH23-02, BH23-03, BH23-03, BH23-12, BH23-14, BH23-15, BH23-16 will be excavated to 2.5 feet and BH23-18 will be excavated to 2 feet. Mechanical excavation equipment will be used to complete the excavation and hand excavation will be utilized in areas where mechanical excavation would be deemed unsafe. Field screening will be utilized to find the horizontal and vertical extents of the spill area. Confirmatory samples will be collected as per NMOCD guidance and submitted for laboratory analysis of all applicable parameters. The estimated volume to be excavated is **373 cubic yards**.

| Sample Point | Excavation Depth | Remediation Method           |
|--------------|------------------|------------------------------|
| BH23-01      | 2.5'             | Excavator                    |
| BH23-02      | 2.5'             | Excavator/Hancrew near lines |
| BH23-03      | 2.5'             | Excavator/Hancrew near lines |
| BH23-04      | 1'               | Excavator                    |
| BH23-05      | 1'               | Excavator/Hancrew near lines |
| BH23-08      | 1'               | Excavator/Hancrew near lines |
| BH23-11      | 1'               | Excavator/Hancrew near lines |
| BH23-12      | 2.5'             | Excavator/Hancrew near lines |
| BH23-14      | 2.5'             | Excavator                    |
| BH23-15      | 2.5'             | Excavator/Hancrew near lines |
| BH23-16      | 2.5'             | Excavator                    |
| BH23-18      | 2'               | Excavator                    |

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575.200.6167 or chensley@vertexresource.com.

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12/13/2024

Riley Plogger ENVIRONMENTAL TECHNICIAN, REPORTING Date

CH 3\_\_\_\_

12/14/2024

Chad Hensley B.Sc. GCNR PROJECT MANAGER, REPORT REVIEW Date

#### **Attachments**

Attachment 1. NMOCD C-141 Report

Attachment 2. Closure Criteria Research

Attachment 3. Figures

Attachment 4. Characterization Table and Laboratory Data Reports

Attachment 5. Background Characterization Table and Laboratory Data Reports

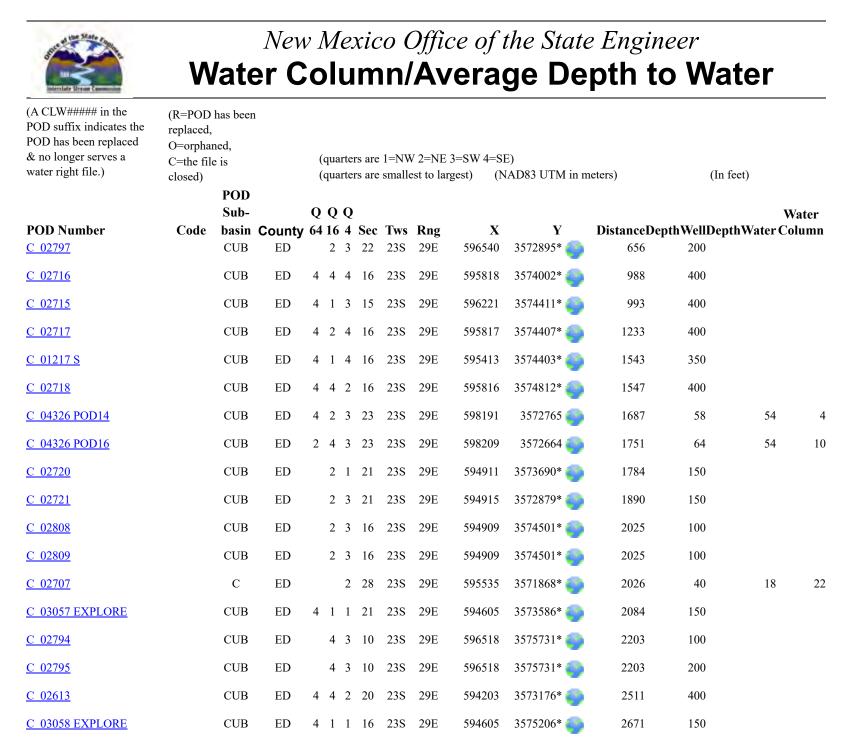
## **ATTACHMENT 1**

| eceived by OCD: 1/8/2025 1:37:44 PM   |   |  |  | _  |   | Page 7 of 3   |  |  |
|---|---|--|--|--|---|---|--|--|
| District I<br>1625 N. French Dr., Hobbs, NM 88240   | State   | of New Mex   | ico 🤅  |  | 2220  |   |  |  |
| District II<br>1301 W. Grand Avenue, Artesia, NM 88210  | Energy Minera   | ls and Natur   | l Resources  | JLF  |   | Revised October 10, 200   |  |  |
| District III<br>1000 Rio Brazos Road, Aztec, NM 87410   | Oil Cons  | servation Di   | vision   |  |   | Submit 2 Copies to appropriate<br>District Office in accordance   |  |  |
| District IV   |   | uth St. Fran   |  |  |   | with Rule 116 on back<br>side of form   |  |  |
| 1220 S. St. Francis Dr., Santa Fe, NM 87505   |   | Fe, NM 87  |  |  | °   |   |  |  |
| 30-015-36461 Rele   | ase Notificati  | on and C   | orrective A  | ction  |   |   |  |  |
| NKMW //097299/1   | ·   | OPERA  |  | [  |   | al Report 📋 Final Repo  |  |  |
| Name of Company         Devon Energy           Address         6488 Seven Rivers Hwy – F  | 0 Pay 250   |  | hannon Mos<br>No. 575-748-   |  | man   |   |  |  |
| Facility Name Laguna Salado Batter  |   | Facility Ty  |  | 5252   |   |   |  |  |
| Surface Owner   | Mineral Own   |  |  |  | Lease N   | Jo  |  |  |
|   |   |  |  |  | Lease   | <u>NO.</u>  |  |  |
| Unit Letter Section Township Range  |   | ON OF RE   | LEASE<br>Feet from the   | Fort/W   | est Line  | County  |  |  |
| Unit LetterSectionTownshipRange <b>222329</b>   | Feet from the No  | rin/South Line   | Feet from the  | East/ w  | est Line  | Eddy  |  |  |
| Latitude  | N 32.2992   | 21 Longit  | ude W 103  | 97480  | )   |   |  |  |
| Lantuut   |   | E OF REL   |  |  | <u> </u>  |   |  |  |
| Type of Release   |   | Volume o   |  |  |   | Recovered   |  |  |
| Produced Water  |   | 30 bbl   | 6  |  | 0   |   |  |  |
| Source of Release<br>4" poly SWD line, extending from the Lagu<br>to the Remuda Basin SWD, ruptured; relea<br>30 bbls of produced water.  |   | y 09/15/09   | Hour of Occurrence<br>- 9:30   |  | Date and Hour of Discovery<br>09-15-09 – 9:30                         |   |  |  |
| Was Immediate Notice Given?   |   | If YES, T  | Whom?  |  |   |   |  |  |
| , Xes 🗌   | No 🗌 Not Requir   | ed Paul Ev   | ans – BLM  |  |   |   |  |  |
| By Whom? Shannon Moss, Foreman  |   |  | Iour <b>9:45</b>   |  |   | · · · · · · · · · · · · · · · · · · ·   |  |  |
| Was a Watercourse Reached?  | No  | If YES, V  | olume Impacting t  | the Water  | course.   |   |  |  |
| If a Watercourse was Impacted, Describe Fully.*   |   | 1  |  |  |   |   |  |  |
| Describe Cause of Problem and Remedial Action<br>extending from the Laguna Salado Battery<br>of produced water.   | / to the Remuda B   |  |  |  |   |   |  |  |
| Describe Area Affected and Cleanup Action Take<br>50' x 50' Sandy Pasture – Valves close<br>to disposal site.   |   | ned, Leak re   | paired and co  | ontamin  | ated so   | il removed and hauled   |  |  |
|   |   |  |  |  | to NIMOC  | D rules and regulations all operator  |  |  |
| are required to report and/or file certain release notifical<br>acceptance of a C-141 report by the NMOCD marked as<br>and remediate contamination that pose a threat to ground   | tions and perform corrects<br>s "Final Report" does not<br>d water, surface water, 1                              | ctive actions for re<br>ot relieve the oper<br>numan health or the                     | leases which may en<br>ator of liability shoul<br>a environment. In a  | ndanger pu<br>Id their ope   | blic health<br>erations ha  | or the environment. The ve failed to adequately investigate   |  |  |
| are required to report and/or file certain release notificat<br>acceptance of a C-141 report by the NMOCD marked as<br>and remediate contamination that pose a threat to groun-<br>relieve the operator of responsibility for compliance wit  | tions and perform corrects<br>s "Final Report" does not<br>d water, surface water, 1                              | ctive actions for ro<br>trelieve the oper<br>numan health or th<br>e, or local laws ar | leases which may er<br>tor of liability shoul<br>e environment. In a<br>d/or regulations.<br>OIL CON   | ndanger pu<br>Id their ope<br>addition, N<br><u>SERV</u> A                             | blic health<br>erations ha<br>MOCD ac                                 | or the environment. The ve failed to adequately investigate   |  |  |
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| Printed Name: Mykol Horner  | tions and perform corrects<br>s "Final Report" does not<br>d water, surface water, l<br>h any other federal, stat | Approval Da<br>Conditions of   | leases which may er<br>tor of liability shoul<br>le environment. In a<br><u>d/or regulations.</u><br><u>OIL CON</u><br>District Supervis<br><u>Signed By</u><br>te: <u>4/7///</u><br>f Approval:                   | ndanger pu<br>ld their ope<br>addition, N<br>SERVA<br>or:                              | blic health<br>erations ha<br>MOCD act<br>ATION                       | or the environment. The<br>ve failed to adequately investigate<br>ceptance of a C-141 report does not<br>DIVISION |  |  |
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| are required to report and/or file certain release notificat<br>acceptance of a C-141 report by the NMOCD marked as<br>and remediate contamination that pose a threat to groun<br>relieve the operator of responsibility for compliance wit<br>Signature: Mykol Horner<br>Printed Name: Mykol Horner<br>Title: Field Tech 1<br>E-mail Address: mykol.horner@dvn.com | tions and perform corrects<br>s "Final Report" does not<br>d water, surface water, l<br>h any other federal, stat | Approval Da<br>Conditions of<br>Reme<br>Guideline                                      | leases which may er<br>tor of liability shoul<br>le environment. In a<br><u>d/or regulations.</u><br><u>OIL CON</u><br>District Supervis<br><u>Signed By</u><br>te: <u>4/7///</u><br>f Approval:                   | DRules   | blic health<br>erations ha<br>MOCD act<br>ATION<br>ATION<br>xpiration | or the environment. The<br>ve failed to adequately investigate<br>ceptance of a C-141 report does not<br>DIVISION |  |  |

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## **ATTACHMENT 2**

|          | e: LAGUNA SALADO 22 FEDERAL #004H                      |         |                 |
|----------|--|---------|-----------------|
| -        | rdinates: 32.294426,-103.9730835                       |         |                 |
| ite Spec | ific Conditions  | Value   | Unit            |
| 1        | Depth to Groundwater                                   | <50     | feet            |
| 2        | Within 300 feet of any continuously flowing            | 15,734  | feet            |
| -        | watercourse or any other significant watercourse       | 10,701  |                 |
| 3        | Within 200 feet of any lakebed, sinkhole or playa lake | 385     | feet            |
| •        | (measured from the ordinary high-water mark)           |         |                 |
| 4        | Within 300 feet from an occupied residence, school,    | 19,430  | feet            |
| •        | hospital, institution or church                        | 20) 100 |                 |
|          | i) Within 500 feet of a spring or a private, domestic  |         |                 |
| 5        | fresh water well used by less than five households for | 19,430  | feet            |
| 2        | domestic or stock watering purposes, <b>or</b>         |         |                 |
|          | ii) Within 1000 feet of any fresh water well or spring |         | feet            |
|          | Within incorporated municipal boundaries or within a   |         |                 |
|          | defined municipal fresh water field covered under a    |         |                 |
| 6        | municipal ordinance adopted pursuant to Section 3-27-  | No      | (Y/N)           |
|          | 3 NMSA 1978 as amended, unless the municipality        |         |                 |
|          | specifically approves                                  |         |                 |
| 7        | Within 300 feet of a wetland                           | 8,606   | feet            |
| 8        | Within the area overlying a subsurface mine            | No      | (Y/N)           |
|          |  |         | Critical        |
| 9        | Within an unstable area (Karst Man)                    | Madium  | High            |
| 9        | Within an unstable area (Karst Map)                    | Medium  | Medium          |
|          |  |         | Low             |
| 40       |  | 500     |                 |
| 10       | Within a 100-year Floodplain                           | 500     | year            |
| 11       | Soil Type  | Loam    |                 |
|          |  |         |                 |
| 12       | Ecological Classification                              | Gyp U   | pland           |
| 13       | Geology  | Q       | pl              |
|          | NMAC 19.15.29.12 E (Table 1) Closure Criteria          | <50'    | <50'<br>51-100' |



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| <u>C 01627</u>      | С   | ED | 1 4 4 2 | 28 235 | 29E | 595649 | 3570959* 🌍 | 2777 | 170 |    |    |
|---------------------|-----|----|---------|--------|-----|--------|------------|------|-----|----|----|
| <u>C 02705</u>      | С   | ED | 2       | 17 238 | 29E | 593902 | 3575093* 🌍 | 3193 | 68  | 28 | 40 |
| <u>C 02608</u>      | CUB | ED | 3 1 4   | 17 238 | 29E | 593598 | 3574387* 🥘 | 3206 | 400 |    |    |
| <u>C 04597 POD1</u> | CUB | ED | 1 1 4 2 | 24 238 | 29E | 600124 | 3573002 🥌  | 3476 |     |    |    |
| <u>C 04597 POD2</u> | CUB | ED | 1 1 4 2 | 24 238 | 29E | 600122 | 3572959 🌍  | 3481 |     |    |    |
| <u>C 04597 POD4</u> | CUB | ED | 1 1 4 2 | 24 238 | 29E | 600159 | 3572947 🌍  | 3519 |     |    |    |
| <u>C 04597 POD3</u> | CUB | ED | 1 1 4 2 | 24 238 | 29E | 600172 | 3572991 🌍  | 3524 |     |    |    |
| <u>C 04597 POD5</u> | CUB | ED | 2 1 4 2 | 24 238 | 29E | 600198 | 3572931 🌍  | 3560 |     |    |    |
| C 03059 EXPLORE     | CUB | ED | 4 1 3   | 17 238 | 29E | 592993 | 3574378* 🌍 | 3790 |     | 65 |    |
| <u>C 02806</u>      | CUB | ED | 1 1 (   | 09 238 | 29E | 594473 | 3576927* 🌍 | 4052 | 100 |    |    |
| <u>C 02807</u>      | CUB | ED | 1 1 (   | 09 238 | 29E | 594473 | 3576927* 🌍 | 4052 | 100 |    |    |
| <u>C 04472 POD1</u> | CUB | ED | 2 2 4   | 13 238 | 29E | 600639 | 3574619 🌍  | 4096 |     | 37 |    |
| <u>C 02792</u>      | CUB | ED | 4 3 0   | 04 238 | 29E | 594868 | 3577336* 🥌 | 4215 | 200 |    |    |
| <u>C 02793</u>      | CUB | ED | 4 3 0   | 04 238 | 29E | 594868 | 3577336* 🥌 | 4215 | 100 |    |    |
| <u>C 04594 POD2</u> | CUB | ED | 4 2 2   | 13 238 | 29E | 600604 | 3575232 🌍  | 4267 | 42  | 34 | 8  |
| <u>C 04594 POD5</u> | CUB | ED | 4 2 2   | 13 238 | 29E | 600626 | 3575236 🌍  | 4289 | 30  | 30 | 0  |
| <u>C 04594 POD1</u> | CUB | ED | 4 2 2   | 13 238 | 29E | 600629 | 3575241 🌍  | 4294 | 36  | 31 | 5  |
| <u>C 04594 POD7</u> | CUB | ED | 4 2 2   | 13 238 | 29E | 600659 | 3575217 🌍  | 4311 | 34  | 28 | 6  |
| <u>C 04594 POD6</u> | CUB | ED | 4 2 2   | 13 238 | 29E | 600659 | 3575220 🥌  | 4313 | 34  | 28 | 6  |
| <u>C 04594 POD3</u> | CUB | ED | 4 2 2   | 13 238 | 29E | 600645 | 3575280 🌍  | 4324 | 38  | 27 | 11 |
| <u>C 03587 POD1</u> | CUB | ED | 1 4 3 2 | 29 238 | 29E | 593338 | 3570754 🌍  | 4353 | 99  | 44 | 55 |
| <u>C 04594 POD4</u> | CUB | ED | 4 2 2   | 13 238 | 29E | 600704 | 3575224 🌍  | 4356 | 45  | 28 | 17 |
| <u>C 02706</u>      | С   | ED | 4       | 18 235 | 29E | 592302 | 3574291* 🌍 | 4451 | 17  | 10 | 7  |
| <u>C 03587 POD2</u> | CUB | ED | 1 2 4   | 19 238 | 29E | 592213 | 3572706 🌍  | 4551 | 77  | 16 | 61 |
| <u>C 02486</u>      | С   | ED | 3 2 3   | 19 238 | 30E | 601304 | 3572832* 🥌 | 4668 | 350 |    |    |
| <u>C 02804</u>      | CUB | ED | 2 1 (   | 08 235 | 29E | 593262 | 3576905* 🌍 | 4806 | 100 |    |    |

.

| <u>C 02805</u>   | CUB   | ED 2          | 1 08 | 238     | 29E | 593262         | 3576903    | 5* 🌍     | 4806                 | 100        |                         |
|------------------|---|---------------|------|---------|-----|----------------|------------|----------|----------------------|------------|-------------------------|
|                  |   |               |      |         |     |                |            | Avera    | ge Depth to Water    | :          | 33 feet                 |
|                  |   |               |      |         |     |                |            |          | Minimum Dept         | h:         | 10 feet                 |
|                  |   |               |      |         |     |                |            |          | Maximum Deptl        | 1:         | 65 feet                 |
| Record Count: 45 |   |               |      |         |     |                |            |          |                      |            |                         |
| UTMNAD83 R       | adius Search (in meters):                                       |               |      |         |     |                |            |          |                      |            |                         |
| Easting (X):     | 596688.75   | Northing (Y): | 357  | 3534.32 | 2   |                | Radius:    | 5000     |                      |            |                         |
|                  | rived from PLSS - see Help                                      |               |      |         |     |                |            |          |                      |            |                         |
|                  | the NMOSE/ISC and is acce<br>reliability, usability, or suitabi |               |      |         |     | derstanding th | at the OSE | E/ISC ma | ke no warranties, ex | pressed or | implied, concerning the |

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WATER COLUMN/ AVERAGE DEPTH TO WATER



## New Mexico Office of the State Engineer Point of Diversion Summary

|                              |            |                      | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |                   |  |  |  |  |  |
|------------------------------|------------|----------------------|--|-------------------|--|--|--|--|--|
| Well Tag                     | POD Number | Q64 Q16 Q4 Sec       | 0  | X Y               |  |  |  |  |  |
| Triller Lice                 |            | Driller Company:     | 23S 29E<br>TAYLOR W  | 596540 3572895* 🥑 |  |  |  |  |  |
| Driller Nan<br>Drill Start I | ,          | Drill Finish Date:   |  |                   |  |  |  |  |  |
| Log File Da                  | ite:       | PCW Rcv Date:        |  | Source:           |  |  |  |  |  |
| Pump Type:                   |            | Pipe Discharge Size: |  | Estimated Yield:  |  |  |  |  |  |
| Casing Size                  | : 3.00     | Depth Well:          | 200 feet   | Depth Water:      |  |  |  |  |  |

\*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.

3/21/23 3:36 PM

POINT OF DIVERSION SUMMARY



## New Mexico Office of the State Engineer **Point of Diversion Summary**

|                              |       |                   | (quarters   | are 1=N                 | W 2=N     | IE 3=SW    |            |         |                  |         |  |
|------------------------------|-------|-------------------|-------------|-------------------------|-----------|------------|------------|---------|------------------|---------|--|
|                              |       |                   | (quarter    | rs are sma              | allest to | o largest) |            | (NAD83  | UTM in meters)   |         |  |
| Well Tag                     | POD   | Number            | Q64 Q       | 16 Q4                   | Sec       | Tws        | Rng        | 2       | K Y              |         |  |
| NA                           | C 04  | 4326 POD14        | 4           | 2 3                     | 23        | 23S        | 29E        | 59819   | 1 3572765 🍯      |         |  |
| <sup>x</sup><br>Driller Lic  | ense: | 1664              | Driller (   | Compar                  | ny:       | CA         | SCADE      | DRILLI  | NG, LP           |         |  |
| Driller Na                   | me:   | CAIN, SHAWN       | N.NJR.L.NEI | ર                       |           |            |            |         |                  |         |  |
| Drill Start Date: 05/11/2019 |       |                   | Drill Fin   | Drill Finish Date:      |           |            | 05/11/2019 |         | Plug Date:       |         |  |
| Log File D                   | ate:  | PCW Ro            | v Date      | :                       |           | 5          | Source:    |         |                  |         |  |
| Pump Typ                     | e:    |                   | Pipe Dis    | Pipe Discharge Size:    |           |            |            |         | Estimated Yield: |         |  |
| Casing Siz                   | æ:    | 2.06              | Depth W     | <b>Depth Well:</b> 58 f |           |            |            |         | Depth Water:     | 54 feet |  |
| X                            | Wate  | r Bearing Stratif | ications:   | To                      | op 1      | Bottom     | Desci      | ription |                  |         |  |
|                              |       |                   |             | 2                       | 45        | 54         | Shale      | Mudston | e/Siltstone      |         |  |
| х                            |       | Casing Per        | forations:  | To                      | op I      | Bottom     |            |         |                  |         |  |
|                              |       |                   |             | 4                       | 18        | 58         |            |         |                  |         |  |

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3/21/23 3:47 PM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| Z                                | OSE POD NO<br>POD 14  | ) (WELL NO | ))               |                                      | well tag id no<br>BH 14   |   |             | OSE FILE NO(<br>C-4326                  | S).                      | - <u> </u>                        |                          |  |
|----------------------------------|---|------------|------------------|--------------------------------------|---|---|-------------|---|--------------------------|-----------------------------------|--------------------------|--|
| GENERAL AND WELL LOCATION        | WELL OWN<br>XTO Ener  |            | )                |                                      | L   |   |             | PHONE (OPTI<br>432-221-73               |                          |                                   |                          |  |
| 3                                | WELL OWN  | ER MAILIN  | G ADDRESS        |                                      |   |   |             | CITY                                    |                          | STATE                             | ZIP                      |  |
| WEL                              | 522 W Me  | rmond, S   | uite 704         |                                      |   |   |             | Carlsbad                                |                          | NM 88220                          |                          |  |
|                                  | WELL<br>LOCATIO   |            | DE               | GREES<br>32                          | <sup>NDS</sup><br>49 N  | ACCURACY REQUIRED ONE TENTH OF A SECOND |             |   |                          |                                   |                          |  |
| VERA                             | (FROM GF  | 2S)        | NGITUDE          | 103                                  | 57  | 25.                                     |             | * DATUM RE                              | QUIRED: WGS 84           |                                   |                          |  |
| I. GEI                           | Description relating well location to street address and common landmarks - plss (section, townshijp, range) where available<br>North East Quarter of South West Quarter of Section 23, Township 23 South, Range 29 East, Eddy County, New Mexico |            |                  |                                      |   |   |             |   |                          |                                   |                          |  |
| <u></u>                          | LICENSE NO  |            | NAME OF LICENSED | DRILLER                              | Shawn Cain  |   |             | <u></u>                                 | NAME OF WELL DR          | ILLING COMPANY<br>ascade Drilling |                          |  |
|                                  | DRILLING S  |            | DRILLING ENDED   | DEPTHON                              | MPLETED WELL (FT  |   | DODELLO     |   |                          |                                   |                          |  |
|                                  | 5/11/2  |            | 5/11/2019        |                                      | 58  | ,                                       |             | E DEPTH (FT)<br>58                      | DEPTH WATER FIR.         | ST ENCOUNTERED (FI<br>54          | ,                        |  |
| z                                | COMPLETE  | D WELL IS: | ARTESIAN         | DRY HO                               | LE 🔽 SHALLOW  | V (UNCC                                 | NFINED)     |   | STATIC WATER LEV         | EL IN COMPLETED W<br>48           | ELL (FT)                 |  |
| TI0                              | DRILLING F  | LUID.      | AIR              | MUD                                  | ADDITIVE  | ES - SPE                                | CIFY        |   |                          |                                   |                          |  |
| RMA                              | DRILLING M  | IETHOD     | ROTARY           | HAMMER CABLE TOOL / OTHER - SPECIFY. |   |   |             |   | Sonic                    |                                   |                          |  |
| NFC                              | DEPTH   | (feet bgl) | BORE HOLE        | CASING                               | MATERIAL AND  | /OR                                     |             | 0010                                    | CASING                   | CASING WALL                       |                          |  |
| 2. DRILLING & CASING INFORMATION | FROM  | то         | DIAM<br>(inches) |                                      | GRADE<br>(include each casing string, and<br>note sections of screen) |   | CONN<br>T   | SING<br>IECTION<br>YPE<br>ing diameter) | INSIDE DIAM.<br>(inches) | THICKNESS<br>(inches)             | SLOT<br>SIZE<br>(inches) |  |
| Ŭ,                               | 0   | 58         | 6                |                                      |   |   |             |   |                          |                                   | +                        |  |
| ÿ                                | 0   | 48         |                  |                                      | 2" PVC Blank  |   | Flush Th    | read SCH 40                             | 2.067                    | .154"                             | +                        |  |
| alle                             | 48  | 58         |                  | 2                                    | 2" PVC Screen   |   | Flush Th    | read SCH 40                             | 2.067                    | .154"                             | .020                     |  |
| 2. DF                            |   |            |                  |                                      | <b></b>   |   |             |   |                          | 28                                | (0)                      |  |
|                                  |   |            |                  |                                      | · .   |   | - <b>.</b>  |   |                          | <br>                              |                          |  |
|                                  |   |            |                  |                                      |   |   |             |   |                          |                                   | 1:                       |  |
|                                  |   |            |                  |                                      |   |   |             |   |                          |                                   |                          |  |
|                                  |   |            |                  |                                      |   |   |             |   |                          | C C                               |                          |  |
|                                  |   |            |                  |                                      |   |   |             |   |                          |                                   |                          |  |
|                                  | DEPTH   | (feet bgl) | BORE HOLE        |                                      | ST ANNULAR SE   |   |             |   | AMOUNT                   | -METHO                            |                          |  |
| ANNULAR MATERIAL                 | FROM  | то         | DIAM. (inches)   | GRA                                  | VEL PACK SIZE-  |   | BY INTE     | KVAL                                    | (cubic feet)             | PLACE                             |                          |  |
| TE                               | 0   | 2          | 6                | ļ                                    |   | crete                                   |             |   | .5                       | Pou                               |                          |  |
| WW                               | 2   | 45         | 6                | ļ                                    | Bentoni   | •                                       | s           |   | 7.5                      | Pou                               |                          |  |
| AR                               | 45  | 58         | 6                | Į                                    | 12-20   | ) Sand                                  |             |   | 2.5                      | Pou                               | red                      |  |
| 15N                              |   |            |                  |                                      |   |   |             |   |                          |                                   |                          |  |
|                                  |   |            |                  | <u> </u>                             |   |   |             |   |                          |                                   |                          |  |
| ิฑ่                              |   |            |                  |                                      | <u>.</u>  |   |             |   |                          |                                   |                          |  |
|                                  | ]   |            |                  |                                      |   | -                                       |             |   | L                        |                                   |                          |  |
|                                  | OSE INTER   | NAL USE    | 201              |                                      |   |   | <del></del> |   | 0 WELL RECORD            | LOG (Version 04/                  | 30/19)                   |  |
| FILE                             |   | <u>- 4</u> | 324<br>23        |                                      | POD NO.   |   | <u>'</u> 4  | TRN 1                                   | 10. YY89                 | <u>でで</u>                         |                          |  |
| LOC                              | ATION   |            | ' <i>à</i> 3     | 5.24                                 | ヒ・ムろ・ニ  | シーズ                                     | t           | WELL TAG II                             | D NO.                    | PAGE                              | E1 OF 2                  |  |

•

|                              | DEPTH (1<br>FROM | feet bgl)<br>TO | THICKNESS<br>(feet)                   | INCLUDE WATER-       | TYPE OF MATERIAL EN<br>BEARING CAVITIES OF<br>emental sheets to fully de | R FRAC   | TURE ZONES                            | BEAI                                  | .TER<br>RING?<br>/ NO) | ESTIMATED<br>YIELD FOR<br>WATER-<br>BEARING<br>ZONES (gpm) |
|------------------------------|------------------|-----------------|---------------------------------------|----------------------|--|----------|---------------------------------------|---------------------------------------|------------------------|--|
|                              | 0                | 4               | 4                                     |                      | Open Excavation  |          |                                       | Y                                     | <b>√</b> N             |  |
|                              | 4                | 10              | 6                                     |                      | brown-tan clayey SAND  |          | -                                     | Y                                     | ✓ N                    |  |
|                              | 10               | 20              | 10                                    |                      | pinkish-tan silty SAND   |          |                                       | Y                                     | √ N                    |  |
|                              | 20               | 45              | 25                                    |                      | off white-tan CALICHE  |          |                                       | Y                                     | ✓ N                    |  |
|                              | 45               | 43<br>54        | 9                                     |                      | gray-light green DOLOMI  |          |                                       |                                       | N                      |  |
| -                            | 54               | 58              | 4                                     |                      | dark gray-light gray CLA   |          |                                       | Y                                     | √ N                    |  |
| 4. HYDROGEOLOGIC LOG OF WELL | - 34             |                 |                                       |                      | uark gray-right gray CEA   |          |                                       | Y                                     | N                      |  |
| Ψ                            |                  |                 |                                       |                      |  |          |                                       |                                       | N                      |  |
| 0 0                          |                  |                 |                                       |                      |  |          |                                       | Y                                     | N                      |  |
| CLO                          |                  |                 |                                       |                      |  |          |                                       |                                       |                        |  |
| QGI                          |                  |                 |                                       |                      |  |          |                                       | Y                                     | N                      |  |
| OLO                          |                  |                 | · · · · · · · · · · · · · · · · · · · |                      |  |          |                                       | Y<br>Y                                | N                      |  |
| OGE                          |                  |                 |                                       |                      |  |          |                                       |                                       | N                      |  |
| DR                           |                  |                 |                                       | •                    |  |          |                                       | Y                                     | N                      |  |
| ť H)                         |                  |                 |                                       |                      |  |          |                                       | Y                                     | N                      |  |
|                              |                  |                 |                                       |                      | <del>.</del> .   |          |                                       | Y                                     | N                      |  |
|                              |                  |                 | i                                     |                      |  |          |                                       | Y                                     | N                      |  |
|                              |                  |                 |                                       |                      | <u> </u>   |          |                                       | Y                                     | N                      |  |
|                              |                  |                 |                                       |                      |  |          |                                       | Y                                     | N                      |  |
|                              |                  |                 |                                       |                      |  |          |                                       | Y                                     | N                      |  |
|                              |                  |                 |                                       |                      |  | -        |                                       | Y                                     | N                      |  |
|                              |                  |                 |                                       |                      |  |          | · · · · · · · · · · · · · · · · · · · | Y                                     | N                      |  |
|                              | METHOD U         | ISED TO ES      | TIMATE YIELD                          | OF WATER-BEARING S   | STRATA   |          |                                       | 'OTAL ESTII<br>WELL YIELI             |                        | 0.00   |
|                              |                  | P 🗖 A           |                                       | BAILER OTHE          | ER – SPECIFY:  |          |                                       |                                       | J (gpm).               | 0.00   |
| NOIS                         | WELL TES         |                 |                                       |                      | COLLECTED DURING V<br>WING DISCHARGE ANI                                 |          |                                       |                                       |                        |  |
| NISI                         | MISCELLA         | NEOUS INF       | ORMATION:                             |                      | ·  | •        | · · · · · · · ·                       |                                       |                        |  |
| PER                          |                  |                 |                                       |                      |  |          |                                       |                                       |                        |  |
| RIG SUPERVI                  |                  |                 |                                       |                      |  |          |                                       |                                       |                        |  |
| RIC                          |                  |                 |                                       |                      |  |          |                                       |                                       |                        | 3  |
| TEST;                        | PRINT NAN        | AF(S) OF D      | RILL RIG SUPER                        | VISOR(S) THAT PROVI  | DED ONSITE SUPERVIS  |          | WELL CONST                            | BUCTION C                             | THER TH                | AN LICENSEE  |
| 5. T                         |                  | 12(0) 01 2      |                                       |                      |  |          |                                       |                                       |                        | · •  |
|                              |                  |                 |                                       |                      |  |          |                                       |                                       |                        |  |
| TURE                         | RECORD O         | F THE ABC       | VE DESCRIBED                          | WELL, I ALSO CERTIFY | MY KNOWLEDGE AND<br>Y THAT THE WELL TAC<br>LDER WITHIN 30 DAYS           | J. IF RE | OUIRED, HAS                           | BEEN INSTA                            | ALLED AN               | D'THAT THIS  |
| 6. SIGNATURE                 |                  | Sh              | · C.                                  | Shaw                 | n Cain   | _        |                                       | <u>8 - 2</u>                          | 3-1                    | 19   |
|                              |                  | SIGNAT          | URE OF DRILLE                         | R / PRINT SIGNEE NA  | AME  |          |                                       |                                       | DATE                   |  |
| FO                           | R OSE INTER      | NAL USE         |                                       |                      |  |          | WR-20 WELL                            | RECORD &                              | LOG /Ve                | rsion 04/30/2019)  |
|                              | E NO.            |                 |                                       |                      | POD NO.  | [        | TRN NO.                               | a a a a a a a a a a a a a a a a a a a | 200110                 |  |
| LO                           | CATION           |                 |                                       | <u>ž.</u>            |  | WELL     | TAG ID NO.                            |                                       |                        | PAGE 2 OF 2  |

## Received by OCD: 1/8/2025 1:37:44 PM Laguna Salado 22 Federal#004 OSE POD Location Map





### 10/30/2023, 7:19:19 AM

#### NHD Flowlines GIS WATERS PODs 1:18,056 0.35 0 0 0.17 0.7 mi Active **OSE** District Boundary Artificial Path New Mexico State Trust Lands 0 0 0.28 0.55 1.1 km Pending Connector Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar Subsurface Estate • Plugged Stream River



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### National Water Information System: Web Interface

**USGS Water Resources** 

| Data | Category:   |  |
|------|-------------|--|
| Site | Information |  |

Geographic Area: **United States** 

GO

×

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- Full News

## USGS 321717103561001 23S.29E.24.41321

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

## Well Site

**DESCRIPTION:** 

Latitude 32°17'17", Longitude 103°56'10" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: not determined. Land surface altitude: 3,034 feet above NAVD88. Well completed in "Other aquifers" (N9999OTHER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

### AVAILABLE DATA:

| Data Type                            | Begin Date                         | End Date   | Count |  |  |  |  |
|--------------------------------------|------------------------------------|------------|-------|--|--|--|--|
| Field groundwater-level measurements | 1983-02-02                         | 2003-01-29 | 4     |  |  |  |  |
| Revisions                            | Unavailable (site:0) (timeseries:0 |            |       |  |  |  |  |

### **OPERATION:**

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes **News** 

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U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory? agency\_code=USGS&site\_no=321717103561001

Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2023-03-21 17:18:20 EDT 0.31 0.29 caww01



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Water Quality Samples for the Nation

To view additional data-quality attributes, output the results using these options: one result per row, expanded attributes.

Additional precautions are <u>here</u>.

## USGS 321742103552601 23S.30E.19.123421

Water-Quality: Field/Lab samples 🗸 GO

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°17'42", Longitude 103°55'26" NAD27 Land-surface elevation 3,034 feet above NAVD88 The depth of the well is 100 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats** 

Parameter Group Period of Record table

Inventory of available water-quality data for printing

Inventory of water-quality data with retrieval

Tab-separated data, one result per row

Tab-separated data one sample per row with remark codes combined with values

Tab-separated data one sample per row with tab-delimiter for remark codes

#### Reselect output format

| Sample<br>Datetime | Time<br>datum | Time<br>datum<br>reliability<br>code | Sample<br>Medium<br>Code | Hydro-<br>logic<br>Event | Hydro-<br>logic<br>Condition | Geo-<br>logic<br>unit | Sample<br>type | Specif-<br>ic<br>conduc-<br>tance,<br>wat unf<br>uS/cm @<br>25 degC<br>(00095) |
|--------------------|---------------|--------------------------------------|--------------------------|--------------------------|------------------------------|-----------------------|----------------|--|
| 1972-09-20         | MD            | ]                                    | T WG                     |                          | 9                            | A 312RSL              | R              | 9 2630   |

<u>Questions or Comments</u> <u>Automated retrievals</u> <u>Help</u> <u>Data Tips</u> <u>Explanation of terms</u> <u>Subscribe for system changes</u> <u>News</u>

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Water Quality Samples for USA: Sample Data URL: https://nwis.waterdata.usgs.gov/nwis/qwdata?

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2023-09-21 09:41:11 EDT 0.45 0.39 nadww02



U.S. Fish and Wildlife Service

## National Wetlands Inventory

## LagunaSalado22Fed4 River 2.98 Miles

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#### March 21, 2023

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

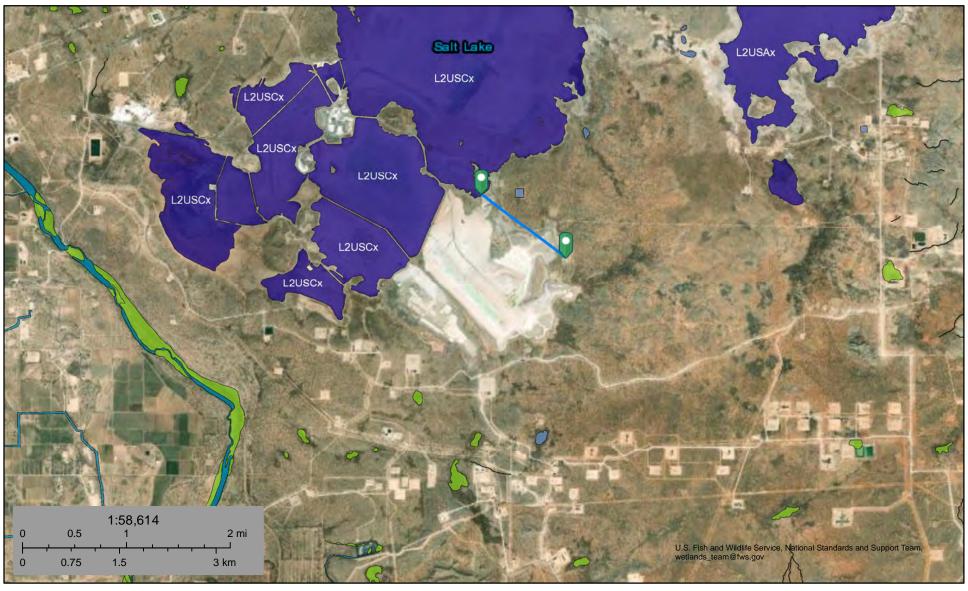
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## **U.S. Fish and Wildlife Service**

## National Wetlands Inventory

## Laguna Salado 22 Fed 4 Lake 0.86 Miles

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#### March 21, 2023

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake Other Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)

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## U.S. Fish and Wildlife Service

## **National Wetlands Inventory**

Laguna Salado 22 Federal #004H Playa 0.1



## October 30, 2023

#### Wetlands

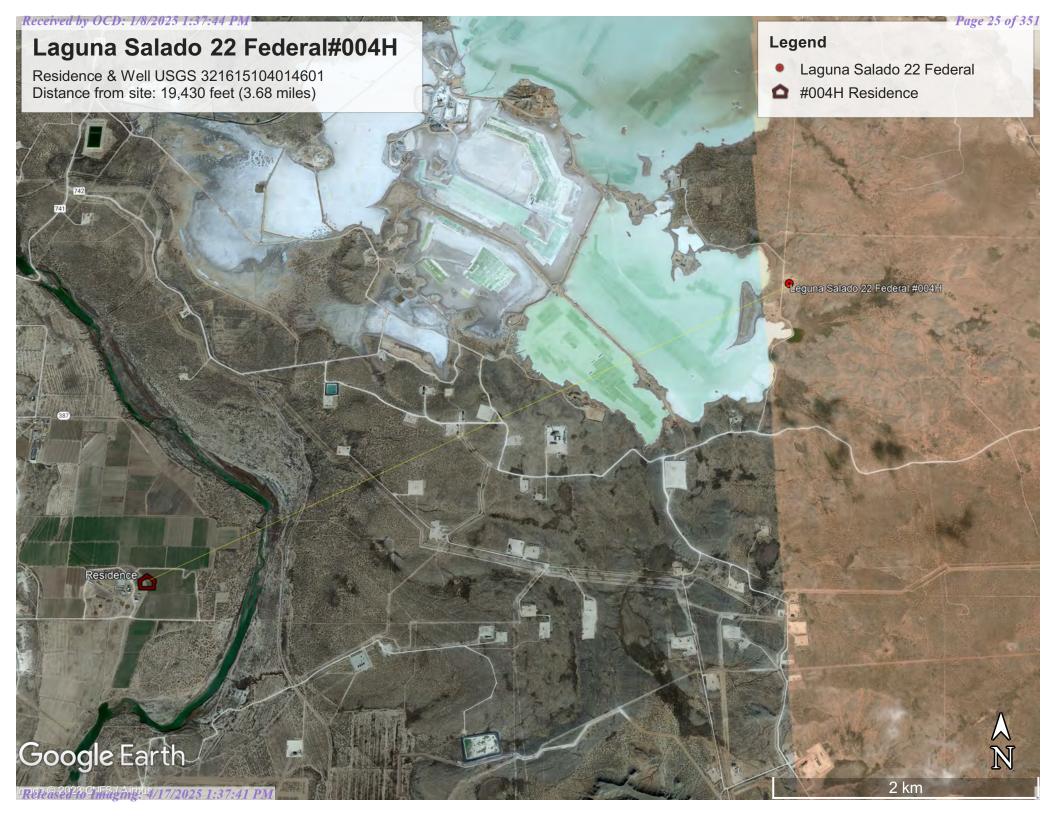
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine

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National Wetlands Inventory (NWI)

This page was produced by the NWI mapper





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## USGS 321615104014601 23S.29E.30.331322

Available data for this site SUMMARY OF ALL AVAILABLE DATA 🗸 🛛 GO

## Well Site

**DESCRIPTION:** 

Latitude 32°16'15", Longitude 104°01'46" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 89 feet Land surface altitude: 2,962 feet above NAVD88. Well completed in "Other aquifers" (N9999OTHER) national aquifer. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

| Data Type                            | <b>Begin Date</b> | End Date             | Count |  |  |
|--------------------------------------|-------------------|----------------------|-------|--|--|
| Field groundwater-level measurements | 1954-11-08        | 1954-11-08           | 1     |  |  |
| Revisions                            | Unavailable (     | site:0) (timeseries: |       |  |  |

### **OPERATION:**

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data **Inquiries** 

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U.S. Department of the Interior | U.S. Geological Survey Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory? agency\_code=USGS&site\_no=321615104014601

Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2023-03-21 17:57:26 EDT 0.31 0.29 caww01







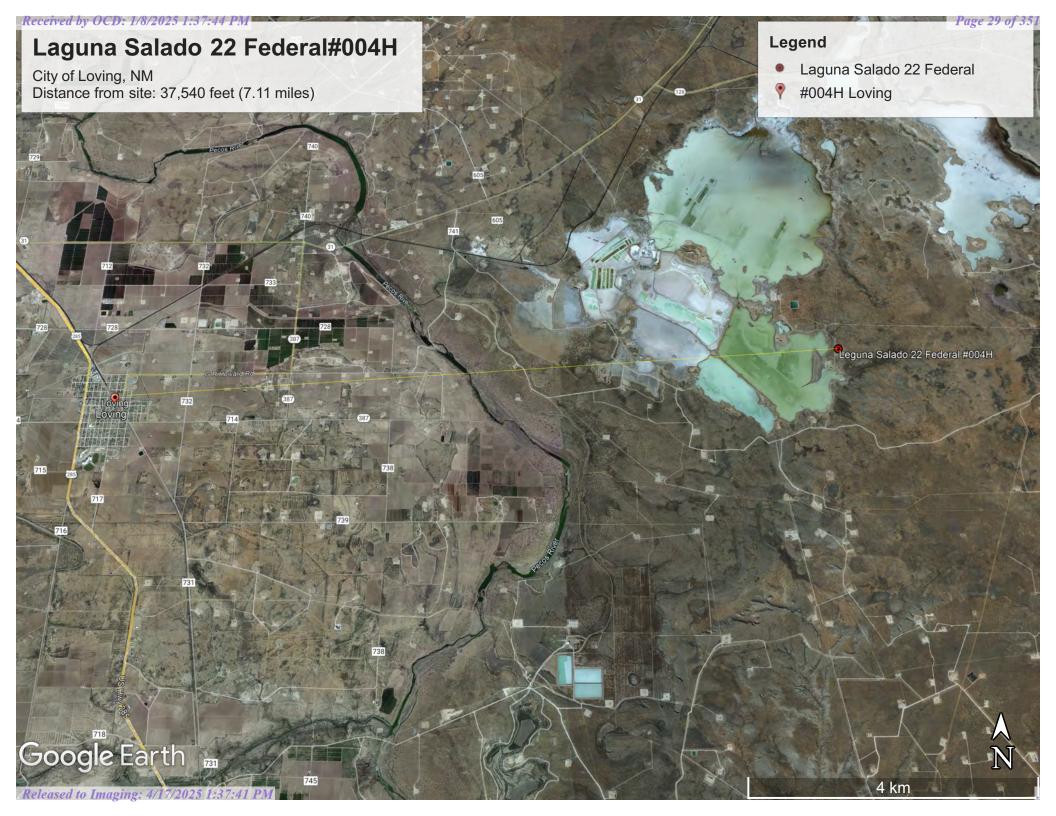
## New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

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| C 02716                       | CUB     | MON                       | 0 UNITED SALT CORPORATION                                | ED                  | <u>C 02716</u>                      |             |  |         | 4 4 4                       | 16  | 23S        | 29E      | 595818             | 3574002*      |
| <u>C 02715</u>                | CUB     | MON                       | 0 UNITED SALT CORPORATION                                | ED                  | <u>C 02715</u>                      |             |  |         | 4 1 3                       | 15  | 23S        | 29E      | 596221             | 3574411*      |
| C 04326                       | CUB     | MON                       | 0 LT ENVIRONMENTAL INC                                   | ED                  | <u>C 04326 POD49</u>                | NA          |  |         | 2 4 3                       | 23  | 23S        | 29E      | 597378             | 3572591       |
| C 02717                       | CUB     | MON                       | 0 UNITED SALT CORPORATION                                | ED                  | <u>C 02717</u>                      |             |  |         | 4 2 4                       | 16  | 23S        | 29E      | 595817             | 3574407* 🧲    |
| C 04326                       | CUB     | MON                       | 0 XTO ENERGY INC   | ED                  | <u>C 04326 POD50</u>                | NA          |  |         | 3 2 3                       | 23  | 23S        | 29E      | 597992             | 3572782       |
|                               |         |                           |  | ED                  | <u>C 04326 POD51</u>                |             |  |         | 3 2 3                       | 23  | 23S        | 29E      | 598034             | 3572817       |
|                               |         |                           |  | ED                  | <u>C 04326 POD1</u>                 |             |  |         | 1 2 3                       | 23  | 23S        | 29E      | 598124             | 3572992       |
| <u>C 01217</u>                | CUB     | COM                       | 150 INTREPID MINING NM LLC US BA<br>NATIONAL ASSOCIATION | ANK ED              | <u>C 01217 S</u>                    |             |  | Shallow | 4 1 4                       | 16  | 23S        | 29E      | 595413             | 3574403*      |
| C 02622                       | CUB     | COM                       | 0 UNITED SALT CORPORATION                                | ED                  | <u>C 01217 S</u>                    |             |  | Shallow | 4 1 4                       | 16  | 23S        | 29E      | 595413             | 3574403*      |
| <u>C 02718</u>                | CUB     | MON                       | 0 UNITED SALT CORPORATION                                | ED                  | <u>C 02718</u>                      |             |  |         | 4 4 2                       | 16  | 23S        | 29E      | 595816             | 3574812*      |
| C 04326                       | CUB     | MON                       | 0 XTO ENERGY INC   | ED                  | <u>C 04326 POD8</u>                 | NA          |  |         | 3 2 3                       | 23  | 23S        | 29E      | 598097             | 3572884       |
|                               |         |                           | ED   | <u>C 04326 POD6</u> |                                     |             |  | 1 2 3   | 23                          | 23S | 29E        | 598125   | 3572940            |               |
|                               |         |                           |  | ED                  | <u>C 04326 POD44</u>                |             |  |         | 3 2 3                       | 23  | 23S        | 29E      | 598050             | 3572781       |
|                               |         |                           |  | ED                  | <u>C 04326 POD4</u>                 |             |  |         | 1 2 3                       | 23  | 23S        | 29E      | 598135             | 3572962       |
|                               |         |                           |  | ED                  | <u>C 04326 POD2</u>                 |             |  |         | 1 2 3                       | 23  | 23S        | 29E      | 598156             | 3572980       |
|                               |         |                           |  | ED                  | C 04326 POD43                       |             |  |         | 2 3                         | 23  | 23S        | 29E      | 598153             | 3572971       |
|                               |         |                           |  | ED                  | <u>C 04326 POD3</u>                 |             |  |         | 1 2 3                       | 23  | 23S        | 29E      | 598156             | 3572962       |
|                               |         |                           |  | ED                  | C 04326 POD45                       |             |  |         | 3 2 3                       | 23  | 23S        | 29E      | 598095             | 3572822       |
|                               |         |                           |  | ED                  | C 04326 POD9                        |             |  |         | 3 2 3                       | 23  | 23S        | 29E      | 598136             | 3572873       |
|                               |         |                           |  | ED                  | <u>C 04326 POD5</u>                 |             |  |         | 2 2 3                       | 23  | 23S        | 29E      | 598169             | 3572940       |
|                               |         |                           |  | ED                  | <u>C 04326 POD40</u>                |             |  |         | 2 3                         | 23  | 23S        | 29E      | 598114             | 3572815       |
| <u>C 04456</u>                | CUB     | MON                       | 0 XTO ENERGY INC   | ED                  | <u>C 04456 POD2</u>                 | NA          |  |         | 3 2 3                       | 23  | 23S        | 29E      | 598103             | 3572791       |
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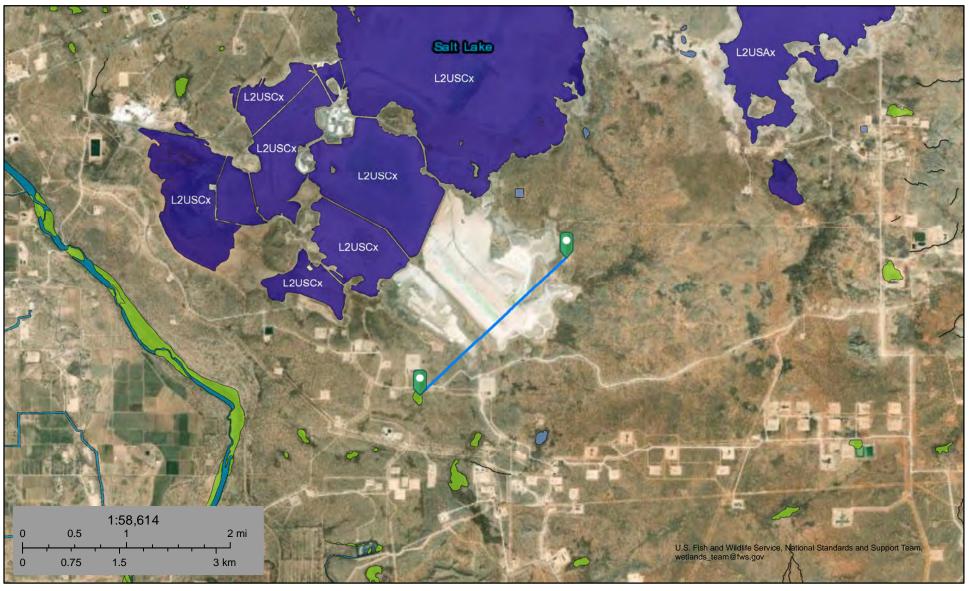


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**U.S. Fish and Wildlife Service** 

## National Wetlands Inventory

## Page 30 of 351 LagunaSalado22Fed4 Wetland 1.63 Miles



#### March 21, 2023

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- **Freshwater Pond**

Freshwater Emergent Wetland

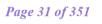
Freshwater Forested/Shrub Wetland

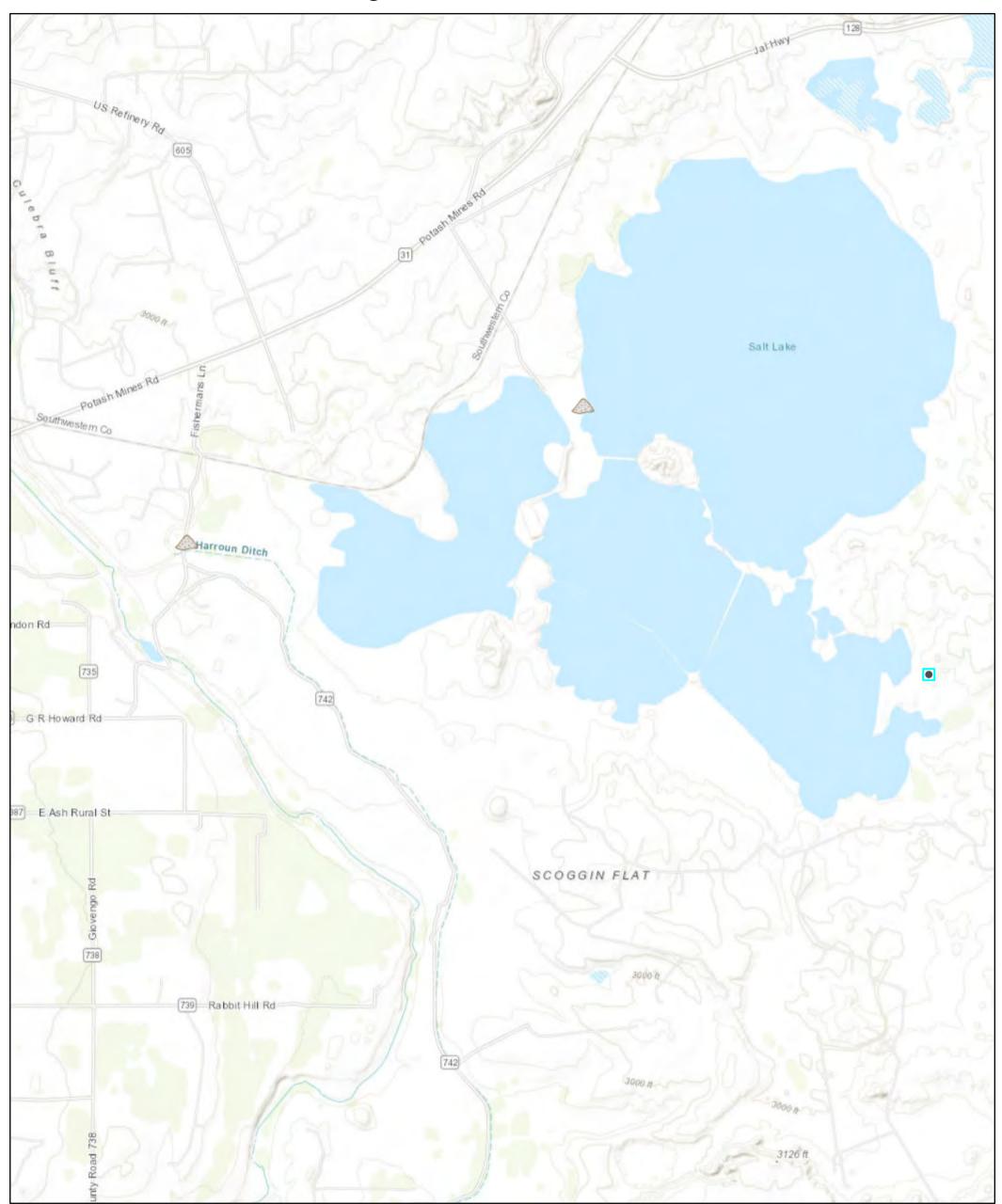
Lake Other Riverine

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# Leguna Salado 22 Fed 4H





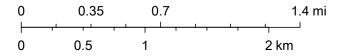
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### **Registered Mines**

× Aggregate, Stone etc.

 $\bigtriangleup$ Salt

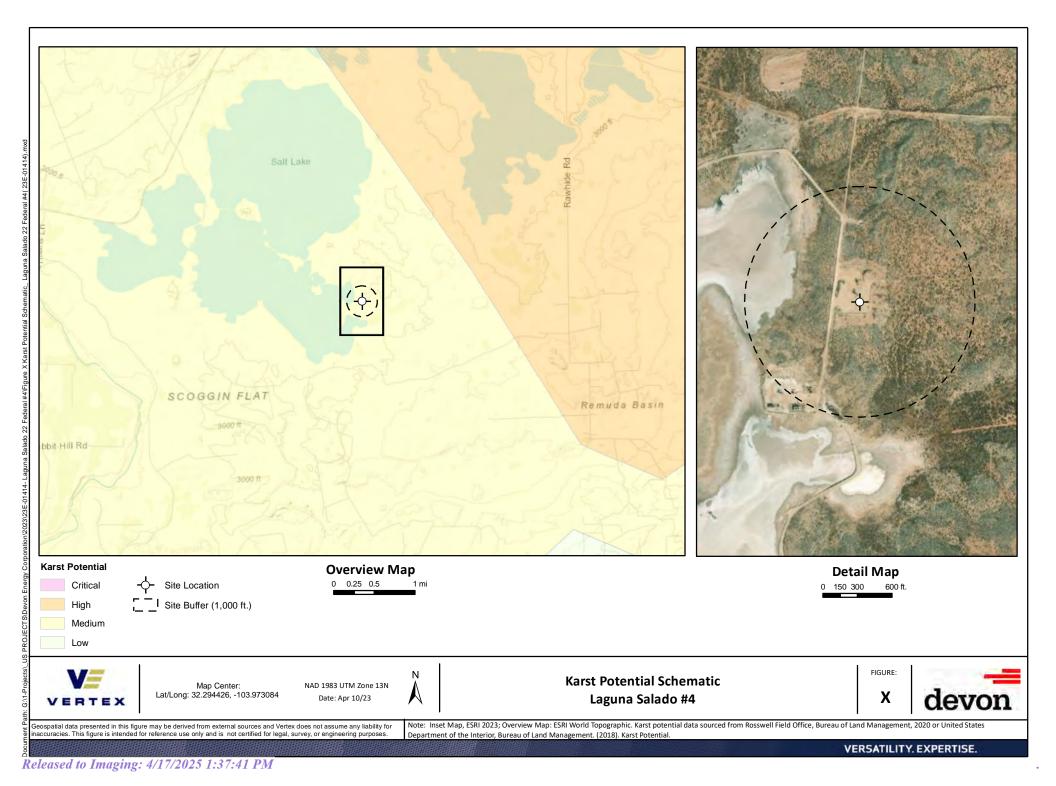
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EMNRD MMD GIS Coordinator

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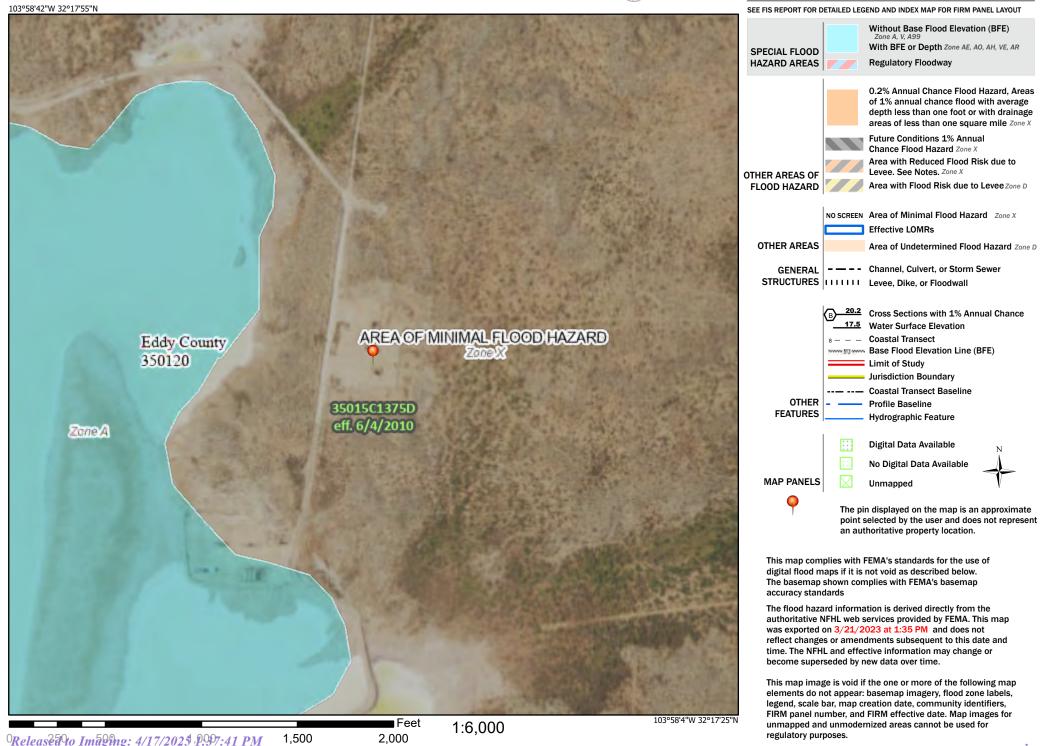


# National Flood Hazard Layer FIRMette



## Legend

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Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020



USDA United States Department of Agriculture

> Natural Resources Conservation Service

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

# **Custom Soil Resource Report for Eddy Area, New Mexico**



# Preface

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2\_053951).

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

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

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

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| Map Unit Legend   |    |
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| UG—Upton gravelly loam, 0 to 9 percent slopes               | 14 |
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# **How Soil Surveys Are Made**

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

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

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

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

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

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

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

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

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

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

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

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

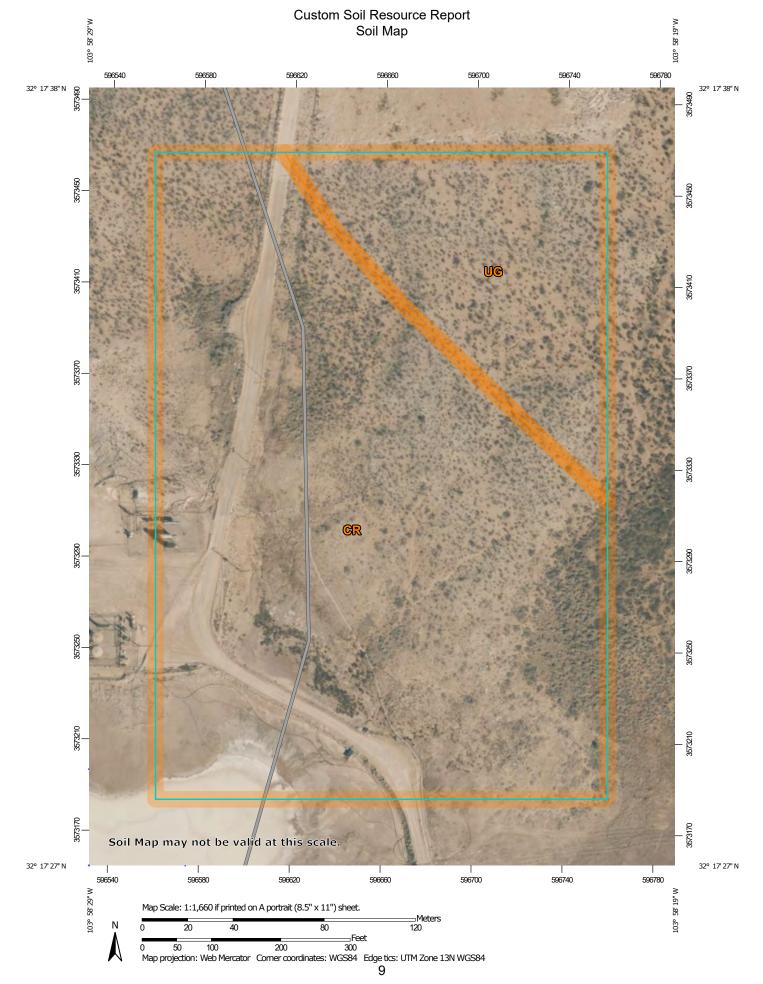
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#### Custom Soil Resource Report

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

# Soil Map

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



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## Custom Soil Resource Report

|   | MAP L   | EGEND   |                   | MAP INFORMATION   |  |  |
|---|---|---|-------------------|---|--|--|
| Soils<br>Soils<br>Second Point<br>Special Point<br>Speci | est (AOI)<br>Area of Interest (AOI)<br>Soil Map Unit Polygons<br>Soil Map Unit Lines<br>Soil Map Unit Points<br>int Features<br>Slowout | <ul> <li>Spoil A</li> <li>Stony S</li> <li>Very SI</li> <li>Vert Sp</li> <li>Other</li> <li>Specia</li> <li>Water Features</li> </ul> | Spot<br>tony Spot | MAP INFORMATION         The soil surveys that comprise your AOI were mapped at 1:20,000.         Warning: Soil Map may not be valid at this scale.         Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.         Please rely on the bar scale on each map sheet for map |  |  |
| ~   | Clay Spot<br>Closed Depression  | +++ Rails   | ate Highways      | Please rely on the bar scale on each map sheet for map measurements.  |  |  |
| × °   | Gravel Pit<br>Gravelly Spot   | JUS Rot   | utes              | Source of Map: Natural Resources Conservation Service<br>Web Soil Survey URL:<br>Coordinate System: Web Mercator (EPSG:3857)  |  |  |
| © L<br>A L  | andfill<br>ava Flow<br>Aarsh or swamp   | Major F<br>Local F<br>Background<br>Aerial F  |                   | Maps from the Web Soil Survey are based on the Web Mercator<br>projection, which preserves direction and shape but distorts<br>distance and area. A projection that preserves area, such as the   |  |  |
| <br>⊗ ^   | line or Quarry<br>liscellaneous Water   |   | <u>-</u>          | Albers equal-area conic projection, should be used if more<br>accurate calculations of distance or area are required.<br>This product is generated from the USDA-NRCS certified data a  |  |  |
| 0   | Perennial Water<br>Rock Outcrop   |   |                   | of the version date(s) listed below.<br>Soil Survey Area: Eddy Area, New Mexico   |  |  |
| 1   | Saline Spot<br>Sandy Spot   |   |                   | Survey Area Data: Version 19, Sep 7, 2023<br>Soil map units are labeled (as space allows) for map scales  |  |  |
|   | Severely Eroded Spot<br>Sinkhole  |   |                   | 1:50,000 or larger.<br>Date(s) aerial images were photographed: Feb 7, 2020—May   |  |  |
| 100   | Blide or Slip<br>Sodic Spot   |   |                   | 12, 2020<br>The orthophoto or other base map on which the soil lines were   |  |  |
|   |   |   |                   | compiled and digitized probably differs from the background<br>imagery displayed on these maps. As a result, some minor<br>shifting of map unit boundaries may be evident.  |  |  |

## **Map Unit Legend**

| Map Unit Symbol             | Map Unit Name  | Acres in AOI | Percent of AOI |  |
|-----------------------------|--|--------------|----------------|--|
| CR                          | Cottonwood-Reeves loams,<br>overflow, 0 to 3 percent<br>slopes | 11.1         | 79.1%          |  |
| UG                          | Upton gravelly loam, 0 to 9 percent slopes                     | 2.9          | 20.9%          |  |
| Totals for Area of Interest |  | 14.0         | 100.0%         |  |

## **Map Unit Descriptions**

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

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

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

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the

development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

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

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

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

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

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

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

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

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

## Eddy Area, New Mexico

#### CR—Cottonwood-Reeves loams, overflow, 0 to 3 percent slopes

#### **Map Unit Setting**

National map unit symbol: 1w47 Elevation: 3,000 to 4,300 feet Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F Frost-free period: 200 to 220 days Farmland classification: Not prime farmland

#### **Map Unit Composition**

Cottonwood and similar soils: 60 percent Reeves and similar soils: 35 percent Minor components: 5 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Cottonwood**

#### Setting

Landform: Ridges, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

#### **Typical profile**

H1 - 0 to 9 inches: loam H2 - 9 to 60 inches: bedrock

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: 3 to 12 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Gypsum, maximum content: 20 percent
Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s Hydrologic Soil Group: D Ecological site: R070BB006NM - Gyp Upland Hydric soil rating: No

#### **Description of Reeves**

#### Setting

Landform: Plains, ridges, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

#### **Typical profile**

- H1 0 to 8 inches: loam
- H2 8 to 32 inches: clay loam
- H3 32 to 60 inches: gypsiferous material

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
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: OccasionalNone
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 20 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 4.7 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6w Hydrologic Soil Group: B Ecological site: R070BB006NM - Gyp Upland Hydric soil rating: No

#### **Minor Components**

#### **Unnamed soils**

*Percent of map unit:* 5 percent *Hydric soil rating:* No

## UG—Upton gravelly loam, 0 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w64 *Elevation:* 1,100 to 4,400 feet

#### Custom Soil Resource Report

Mean annual precipitation: 7 to 15 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 200 to 240 days Farmland classification: Not prime farmland

#### Map Unit Composition

*Upton and similar soils:* 96 percent *Minor components:* 4 percent *Estimates are based on observations, descriptions, and transects of the mapunit.* 

#### Description of Upton

#### Setting

Landform: Ridges, fans Landform position (three-dimensional): Side slope, rise Down-slope shape: Convex Across-slope shape: Convex Parent material: Residuum weathered from limestone

#### **Typical profile**

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

#### Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: 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: R070BC025NM - Shallow Hydric soil rating: No

#### **Minor Components**

#### Reagan

Percent of map unit: 1 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

#### Upton

Percent of map unit: 1 percent Ecological site: R070BC025NM - Shallow

.

#### Custom Soil Resource Report

Hydric soil rating: No

#### Atoka

*Percent of map unit:* 1 percent *Ecological site:* R070BC007NM - Loamy *Hydric soil rating:* No

#### Atoka

Percent of map unit: 1 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

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USDA Natural Resources Conservation Service

## Ecological site R070BB006NM Gyp Upland

Accessed: 10/30/2023

## **General information**

**Provisional**. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

#### Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

#### Table 1. Dominant plant species

| Tree       | Not specified |
|------------|---------------|
| Shrub      | Not specified |
| Herbaceous | Not specified |

## **Physiographic features**

This site occurs on valley floors, plains, fan piedmonts, piedmont slopes or relic lakebeds on basins. The parent material consists of mixed alluvium and or eolian deposits derived from sedimentary rock or residuum weathered from gypsum. Slopes range from 0 to 35 percent and average less than 8 percent. The soil does not meet hydric critera, the calcium carbonate equivalent with in the control section is less than 20 percent and gypsum percent greater than 40 percent. Elevations range from 2,800 to 5,000 feet.

#### Table 2. Representative physiographic features

| Landforms          | <ul><li>(1) Fan piedmont</li><li>(2) Fan remnant</li><li>(3) Basin-floor remnant</li></ul> |
|--------------------|--|
| Flooding duration  | Very brief (4 to 48 hours)   |
| Flooding frequency | None to occasional   |
| Ponding duration   | Very brief (4 to 48 hours)   |
| Ponding frequency  | None to rare   |
| Elevation          | 2,800–5,000 ft   |
| Slope              | 0–35%  |
| Aspect             | Aspect is not a significant factor   |

#### **Climatic features**

The frost free season ranges from 180 to 221 days between early April and late October. The optimum growing season of the major native warm season plants coincides with the summer rains during June, July, August, and September. However, plants can make some growth at any time during the frost free period when moisture is available and minimum daily temperatures stay above 51 degrees F.

Vegetation on this site will be limited to plants which can take advantage of moisture at the time it falls, since the

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soil profiles have large amounts of available water for short periods of time and then rapidly dry. The majority of precipitation comes in the form of high intensity, short duration thunderstorms. Little or no available moisture can be stored in the soil profiles of this site. Strong winds from the southwest blow during January through June which accelerate soil drying within the plant root zone and further discourage cool season plant growth or occupancy of the site.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

#### Table 3. Representative climatic features

| Frost-free period (average)   | 221 days |
|-------------------------------|----------|
| Freeze-free period (average)  | 240 days |
| Precipitation total (average) | 13 in    |

#### Influencing water features

This site is not influenced by water from wetlands or streams.

#### **Soil features**

Soils are shallow to moderately deep to gypsum material. Surface and subsurface textures range from loam, fine sandy loam or sandy loam. Substratum is a dense layers of soft or cemented gypsum material and gypsiferous earth at various depths. The gypsum materials commonly outcrop to the surface as inclusions of raw gypsumland which are void of vegetation and not part of the ecological site. In the lower part of the profile the semi indurated gypsum and caliche make up about 75 percent of the mass and are restrictive to root development. The plant, soil, air, water relationship is poor. The site has a droughty appearance because of the soils inability to support a dense stand of vegetation. If unprotected by plant cover or organic residue, the soil becomes easily wind blown and water eroded.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic Soils: Holloman Alamogordo Aztec Cottonwood McCullough Malargo Reeves Reflection Yesum

#### Table 4. Representative soil features

| Surface texture      | <ul><li>(1) Gypsiferous fine sandy loam</li><li>(2) Loam</li><li>(3) Sandy loam</li></ul> |
|----------------------|---|
| Family particle size | (1) Loamy   |
| Drainage class       | Moderately well drained to well drained   |
| Permeability class   | Moderately slow to moderate   |

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| Soil depth   | 25–72 in      |
|--|---------------|
| Surface fragment cover <=3"                              | 0–3%          |
| Surface fragment cover >3"                               | 0–1%          |
| Available water capacity (0-40in)                        | 4–8 in        |
| Calcium carbonate equivalent<br>(0-40in)                 | 5–30%         |
| Electrical conductivity<br>(0-40in)                      | 2–16 mmhos/cm |
| Sodium adsorption ratio<br>(0-40in)                      | 0–1           |
| Soil reaction (1:1 water)<br>(0-40in)                    | 7.4–8.6       |
| Subsurface fragment volume <=3"<br>(Depth not specified) | 0–8%          |
| Subsurface fragment volume >3"<br>(Depth not specified)  | 0%            |

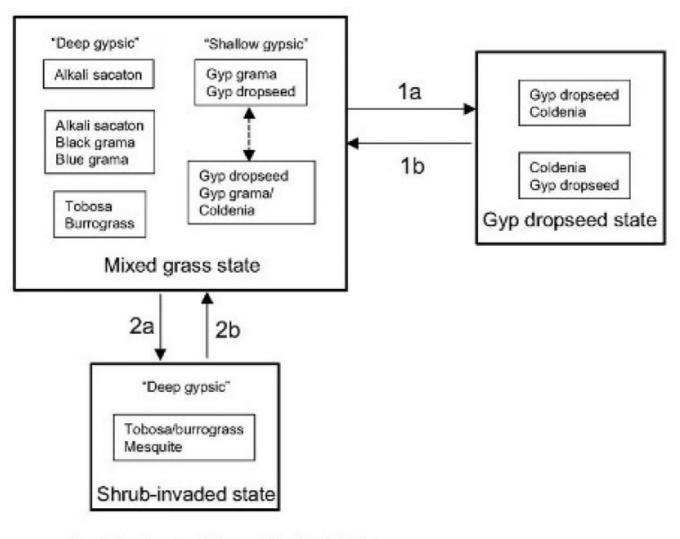
## **Ecological dynamics**

Overview

The vegetation of this site often intergrades with that of Loamy sites, depending on the amounts of gypsum, soil texture, and depths of gypsic horizons. Low-lying areas where run-in water occurs behave like draws. Areas where gypsum outcrops are exposed harbor little vegetation. Gyp Uplands may intergrade with the Salt Flats site depending on salinity levels. Thus, the vegetation of this site is very patchy, variable, and difficult to characterize. The historic plant community types that are likely to be associated with the gyp uplands site include 1) an alkali sacaton (*Sporobolus airoides*) and black grama (*Bouteloua eriopoda*) or blue grama (*B. gracilis*)-dominated community associated with soils having relatively deep (> 10 ") gypsic horizons and 2) a gyp grama (*Bouteloua breviseta*) and gyp dropseed (*Sporobolus nealleyi*)-dominated community on soils with shallow (< 10") gypsic horizons. Tobosa (*Pleuraphis mutica*), burrograss (*Scleropogon brevifolius*), and/or saltbush (*Atriplex canescens*) may also dominate depending on texture, land-use history, or other features. The subshrub Coldenia (Coldenia spp) increasingly dominates sites with very shallow gypsic horizons as grasses decline. Gyp upland sites are susceptible to erosion when vegetation cover is reduced due to drought and overgrazing. Mesquite (*Prosopis glandulosa*) may invade soils with deeper gypsic horizons within the site that are dominated by tobosa or burrograss. Erosion of A horizons bring gypsic horizons closer to the surface and can shift community composition to dominance by gyp dropseed, coldenia, and bare soil.

## State and transition model

State-Transition model: MLRA 42, SD-2 & 3, Gyp Upland



- 1a. Erosion and loss of soil fertility
- 1b. Soil addition
- 2a. Reduced fire or heavy grazing with shrub seed addition
- 2b. Shrub removal

## State 1 Historic Climax Plant Community

## Community 1.1 Historic Climax Plant Community

This site has a grassland aspect with patches of bare or lichen covered soil surface exposed between patches of vegetation. The potential plant community is dominated by alkali sacaton, short and mid grass perennials and forbs, with half shrubs and shrubs sparsely and evenly distributed. Mixed grassland State: Alkali sacaton, black grama, and blue grama (only in SD-3) dominate soils that have relatively deep gypsic horizons that are deeper than 10" (e.g. Reeves series). Saltbush may be an abundant shrub. Alkali sacaton cover may be continuous in run-in settings surrounded by sparsely vegetated areas (alkali sacaton community). On fine-silty or fine loamy calcareous gypsid soils (e.g. Milner or Reeves series), tobosa or burrograss may be dominant. Dominance by burrograss or tobosa

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might represent grazing-induced retrogression from an alkali sacaton-grama community type on these soils, but this has not been confirmed. In some cases, saltbush may be extremely dominant, (e.g. Malargo series) but it is not clear why. Gyp grama, black grama, and gyp dropseed dominate soils with shallow gypsic horizons and gyp dropseed, mormon tea (Ephedra spp.), and coldenia tend to dominate where the gypsic horizon is shallowest ( $< 3^{\circ}$ ). These communities exhibit low production, perhaps due to the comparatively shallow infiltration in gypsic soil and other chemical properties (Campbell and Campbell 1938). Outcrops of gypsum, often revealing a whitish floury mass at the surface, may be devoid of vegetation. Heavy grazing may reduce grama grasses and increase the dominance of gyp dropseed and coldenia, but it is important to recognize that these plants may dominate some patches without heavy grazing. Soil degradation due to surface compaction and reduced infiltration may be important on this site and result in reduced grass cover. Slight variations in the depth to the gypsic horizon, whether human induced or not, exert a powerful control on plant community composition. Where gypsic horizons are deep, soil texture or soil chemistry may govern composition. Diagnosis: Soils with deeper gypsic horizons should have continuous grass cover with a high representation of alkali sacaton and black grama. Shallower soils should have gyp grama and black grama but gyp outcrops will be dominated by gyp dropseeds or coldenia. Depending upon the depths to a gypsic horizon, large (< 1 m) bare patches may be common but they should not be common where the depth to gypsic horizon is greater than 5". This site has a grassland aspect with patches of bare or lichen covered soil surface exposed between patches of vegetation. The potential plant community is dominated by alkali sacaton, short and mid grass perennials and forbs, with half shrubs and shrubs sparsely and evenly distributed.

#### Table 5. Annual production by plant type

| Plant Type      | Low<br>(Lb/Acre) | Representative Value<br>(Lb/Acre) | High<br>(Lb/Acre) |
|-----------------|------------------|-----------------------------------|-------------------|
| Grass/Grasslike | 300              | 470                               | 640               |
| Forb            | 45               | 71                                | 96                |
| Shrub/Vine      | 30               | 47                                | 64                |
| Total           | 375              | 588                               | 800               |

#### Table 6. Ground cover

| Tree foliar cover                 | 0%  |  |  |  |  |
|-----------------------------------|-----|--|--|--|--|
| Shrub/vine/liana foliar cover     | 0%  |  |  |  |  |
| Grass/grasslike foliar cover      |     |  |  |  |  |
| Forb foliar cover                 | 0%  |  |  |  |  |
| Non-vascular plants               | 0%  |  |  |  |  |
| Biological crusts                 | 0%  |  |  |  |  |
| Litter                            | 16% |  |  |  |  |
| Surface fragments >0.25" and <=3" |     |  |  |  |  |
| Surface fragments >3"             | 0%  |  |  |  |  |
| Bedrock                           | 0%  |  |  |  |  |
| Water                             | 0%  |  |  |  |  |
| Bare ground                       | 57% |  |  |  |  |

Figure 5. Plant community growth curve (percent production by month). NM2806, R042XC006NM Gyp Upland HCPC. R042XC006NM Gyp Upland HCPC Warm Season Plant Community.

| Jan | Feb | Mar | Apr | Мау | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0   | 0   | 0   | 5   | 10  | 10  | 25  | 30  | 15  | 5   | 0   | 0   |

## State 2 Transition to gyp dropseed

## Community 2.1 Transition to gyp dropseed

Transition to gyp dropseed state (1a): Reduced grass cover caused by poor grazing management and/or drought may result in erosion of surface horizons. As the depth to the gypsic horizon decreases, plant communities will become increasingly dominated by gyp dropseed and/or coldenia. Mechanical disturbance of the soil surface and soil degradation may contribute to this effect. Key indicators of approach to transition: Increased bare ground, pedestalling, water flow patterns, blowouts, and eventually the loss of the A horizon.

## State 3 Transition to shrub-invaded state

## Community 3.1 Transition to shrub-invaded state

Transition to shrub-invaded state (2a): Reduced grass cover in deep gypsic soils may result in mesquite invasion. Key indicators of approach to transition: Increasing bare ground, presence of mesquite seedlings. Shrub-invaded: On deep gypsic soils and soils with less strong gypsic horizons (i.e. have a lower percentage of gypsum) within this site, mesquite may invade and cause some reduction in grass cover due to competition with grasses. These communities are dominated by tobosa or burrograss. Saltbush may also be an important component. It is not known if shrub presence and resulting erosion may result in the loss of dominant perennial grasses across broad areas on gypsic soils. As soil characteristics grade toward those of the loamy ecological site, widespread grass loss may be increasingly probable. Diagnosis: Moderate densities of mesquite, bare ground patches associated with mesquite patches.

## State 4 Transition to mixed grassland (2b)

## Community 4.1 Transition to mixed grassland (2b)

Transition to mixed grassland (2b): Shrub removal may result in the eventual recovery of perennial grasses. Gyp dropseed: These communities are dominated by gyp dropseed or coldenia, and often exhibit high amounts of bare ground and exposed gypsum at the surface. Gyp grama, black grama, and alkali sacaton may persist in small patches, especially in low-lying spots receiving run-in water and/or in which soils are protected from erosion. The frequency with which these community types represent degradation from mixed grassland due to poor management versus "natural" is unknown. The conditions under which gyp dropseed and coldenia dominate are unknown. Diagnosis: Dominance by gyp dropseed or coldenia, high amounts of bare ground, sometimes associated with a high cover of microbiotic crusts.

## State 5 Transition to mixed grassland (1b)

## Community 5.1 Transition to mixed grassland (1b)

Transition to mixed grassland (1b): Restoration or recovery of a non-gypsic A horizon would be required. Information sources and theoretical background: Communities, states, and transitions are based upon information in the ecological site description and observations by Brandon Bestelmeyer, Jornada Experimental Range and David Trujillo, NRCS. Information on the the role of gypsum in concert with soil chemical features in determining plant composition is sorely needed.

## Additional community tables

Table 7. Community 1.1 plant community composition

Group Common Name

Symbol Scientific Name

| 1    | Warm Season                    |        |                                      | 266–323 |   |
|------|--------------------------------|--------|--------------------------------------|---------|---|
|      | alkali sacaton                 | SPAI   | Sporobolus airoides                  | 266–323 |   |
| 2    | Warm Season                    |        |                                      | 29-88   |   |
| 2    | black grama                    | BOER4  | Bouteloua eriopoda                   | 29-88   |   |
| 3    | Warm Season                    | DUER4  |                                      | 6–59    |   |
| 3    |                                |        | Deuteleus kusuisete                  | 6–59    |   |
| 4    | gypsum grama                   | BOBR   | Bouteloua breviseta                  |         |   |
| 4    | Warm Season                    |        |                                      | 18-88   |   |
|      | bush muhly                     | MUPO2  | Muhlenbergia porteri                 | 18-88   |   |
|      | plains bristlegrass            | SEVU2  | Setaria vulpiseta                    | 18-88   |   |
| 5    | Warm Season                    |        |                                      | 6–18    |   |
|      | gyp dropseed                   | SPNE   | Sporobolus nealleyi                  | 6–18    |   |
| 6    | Warm Season                    |        |                                      | 6–18    |   |
|      | sand dropseed                  | SPCR   | Sporobolus cryptandrus               | 6–18    |   |
| 7    | Warm Season                    | -      |                                      | 6–18    |   |
|      | blue grama                     | BOGR2  | Bouteloua gracilis                   | 6–18    |   |
| 8    | Warm Season                    |        |                                      | 18–88   |   |
|      | threeawn                       | ARIST  | Aristida                             | 18–88   |   |
|      | low woollygrass                | DAPU7  | Dasyochloa pulchella                 | 18–88   |   |
|      | ear muhly                      | MUAR   | Muhlenbergia arenacea                | 18–88   |   |
| Shru | ub/Vine                        |        |                                      |         |   |
| 9    | Shrub                          |        |                                      | 18–41   |   |
|      | fourwing saltbush              | ATCA2  | Atriplex canescens                   | 18–41   |   |
|      | jointfir                       | EPHED  | Ephedra                              | 18–41   |   |
|      | littleleaf sumac               | RHMI3  | Rhus microphylla                     | 18–41   |   |
| 10   | Shrub                          |        |                                      | 6–18    |   |
|      | javelina bush                  | COER5  | Condalia ericoides                   | 6–18    |   |
|      | knifeleaf condalia             | COSP3  | Condalia spathulata                  | 6–18    |   |
|      | crown of thorns                | KOSP   | Koeberlinia spinosa                  | 6–18    |   |
| 11   | Cactus                         |        |                                      | 6–18    |   |
|      | pricklypear                    | OPUNT  | Opuntia                              | 6–18    |   |
|      | уисса                          | YUCCA  | Yucca                                | 6–18    |   |
| Forb | )                              |        |                                      |         |   |
| 12   | Forb                           |        |                                      | 29–59   |   |
|      | woody crinklemat               | TICAC  | Tiquilia canescens var.<br>canescens | 29–59   |   |
| 13   | Forb                           |        |                                      | 6–88    | _ |
|      | Forb, annual                   | 2FA    | Forb, annual                         | 6–88    | · |
|      | trailing windmills             | ALIN   | Allionia incarnata                   | 6–88    |   |
|      | daisy                          | CHRYS2 | Chrysanthemum                        | 6–88    |   |
|      | golden tickseed                | COTI3  | Coreopsis tinctoria                  | 6–88    |   |
|      | leatherweed                    | CRPOP  | Croton pottsii var. pottsii          | 6–88    |   |
|      | Seven River Hills<br>buckwheat | ERGY   | Eriogonum gypsophilum                | 6–88    |   |

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|  | blazingstar              | MENTZ | Mentzelia                         | 6–88 | - |
|--|--------------------------|-------|-----------------------------------|------|---|
|  | fiddleleaf               | NAMA4 | Nama                              | 6–88 | - |
|  | whitest evening primrose | OEAL  | Oenothera albicaulis              | 6–88 | - |
|  | beardtongue              | PENST | Penstemon                         | 6–88 | - |
|  | Texan phacelia           | PHINT | Phacelia integrifolia var. texana | 6–88 | - |
|  | white milkwort           | POAL4 | Polygala alba                     | 6–88 | - |
|  | desert unicorn-plant     | PRAL4 | Proboscidea althaeifolia          | 6–88 | - |
|  | whitestem paperflower    | PSCO2 | Psilostrophe cooperi              | 6–88 | - |
|  | threadleaf ragwort       | SEFLF | Senecio flaccidus var. flaccidus  | 6–88 | - |
|  | Hopi tea greenthread     | THME  | Thelesperma megapotamicum         | 6–88 | _ |

## Animal community

This site provides habitats which support a resident animal community that is characterized by coyote, hooded skunk, desert cottontail, whitethroated woodrat, sparrow hawk, cactus wern, scaled quail, logggerhead shrike, mourning dove, and a number of ground nesting birds including, varied bunting, grasshopper sparrow, and Baird's sparrow Texas horned lizard, lesser earless lizard, and western diamondback rattlesnake.

Fourwing saltbush, littleleaf sumac, spiny allthorn, common javilinabush, and knifeleaf condalia provide protective cover for scaled quail. Seed, green herbage and fruit from a variety of grasses, forbs and shrubs provide food for a number of birds and mamals, including scaled and Gambel's quail, mourning dove and prairie dogs. The fruit of tesajo cactus is relished by quail.

## Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations Soil Series Hydrologic Group Cottonwood C Holloman C Yesum B Alamogordo B Aztec C Malargo B Reeves C Reflection B

#### **Recreational uses**

This site offers recreation potential for hiking, horseback riding, rock, gem, and mineral collecting, nature observation and photography, and quail, dove, and predator hunting. During years of abundant moisture, a colorful array of wildflowers can be observed from spring through fall.

## Wood products

This site provides little or no wood products other than curiosities and small furniture which can be made from the roots and stems of mesquite where it has invaded the site. The woody pods of devils claw are also used in curiosities.

## **Other products**

This site is suitable for grazing during all seasons of the year. Care must be taken to leave enough vegetation cover for soil protection during windy and rainy periods or severe soil erosion will result. About 300 pounds per acre of total vegetation and litter is minimal for soil protection. This site is best suited and most efficiently utilized by cattle. It can also be utilized by small numbers of goats and sheep in combination with cattle where control or protection from predators can be provided. Grazing management that results in a mosaic of use patterns provides diversity for wildlife.

## Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM 100 - 76 5.5 - 8.0 75 - 51 7.5 - 11.0 50 - 26 11.0 - 15.0 25 - 0 25.0 +

## **Type locality**

| Location 1: Eddy County, | NM            |
|--------------------------|---------------|
| Township/Range/Section   | T26S R24E S27 |

## Other references

#### Contributors

Don Sylvester Dr. Brandon Bestelmeyer

## Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

| Author(s)/participant(s)                    |                   |
|---|-------------------|
| Contact for lead author                     |                   |
| Date  |                   |
| Approved by                                 |                   |
| Approval date                               |                   |
| Composition (Indicators 10 and 12) based on | Annual Production |

#### Indicators

1. Number and extent of rills:

- 2. Presence of water flow patterns:
- 3. Number and height of erosional pedestals or terracettes:
- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
- 5. Number of gullies and erosion associated with gullies:
- 6. Extent of wind scoured, blowouts and/or depositional areas:
- 7. Amount of litter movement (describe size and distance expected to travel):
- 8. Soil surface (top few mm) resistance to erosion (stability values are averages most sites will show a range of values):
- 9. Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
- 10. Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
- 11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
- 12. Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):

Dominant:

Sub-dominant:

Other:

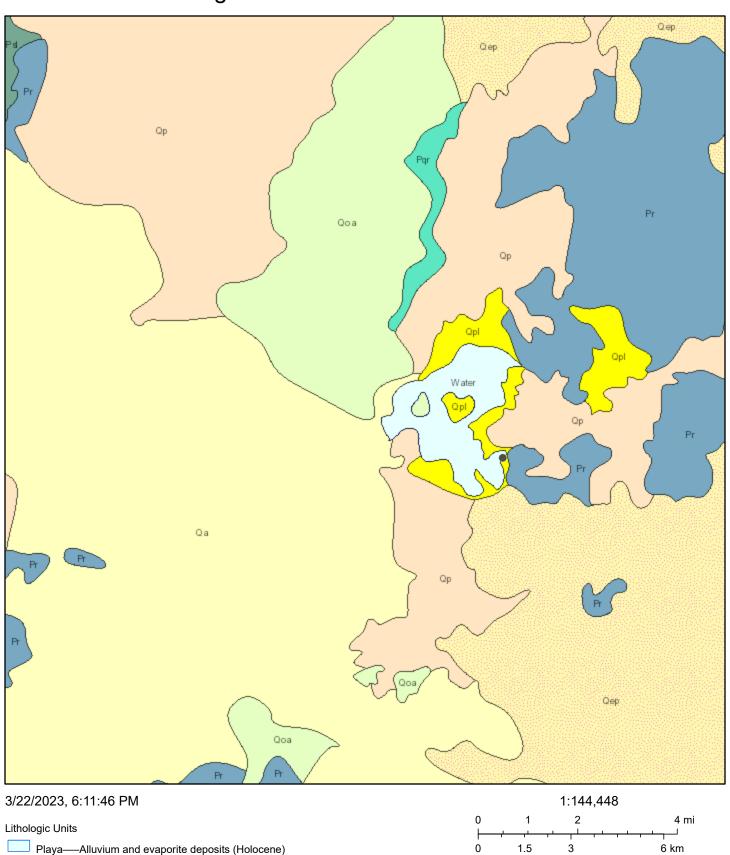
Additional:

13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):

- 14. Average percent litter cover (%) and depth ( in):
- 15. Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annualproduction):
- 16. Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:
- 17. Perennial plant reproductive capability:

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## Laguna Salado 22 Federal #004H



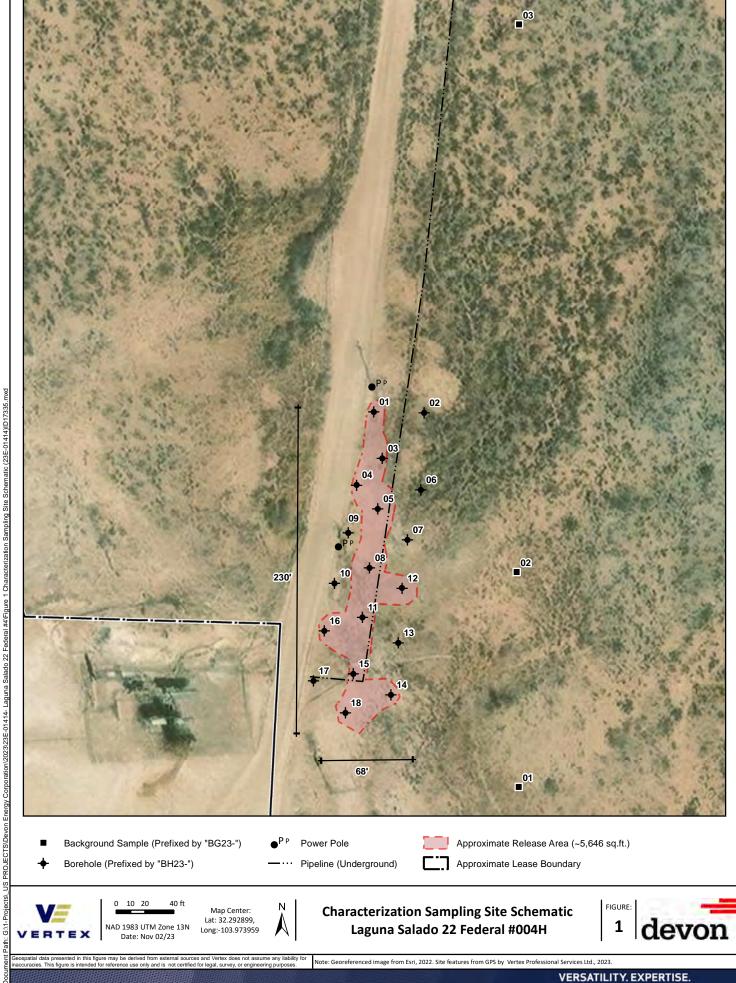
Water—Perenial standing water

Qa—Alluvium (Holocene to upper Pleistocene)

Esri, NASA, NGA, USGS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data;

## **ATTACHMENT 3**



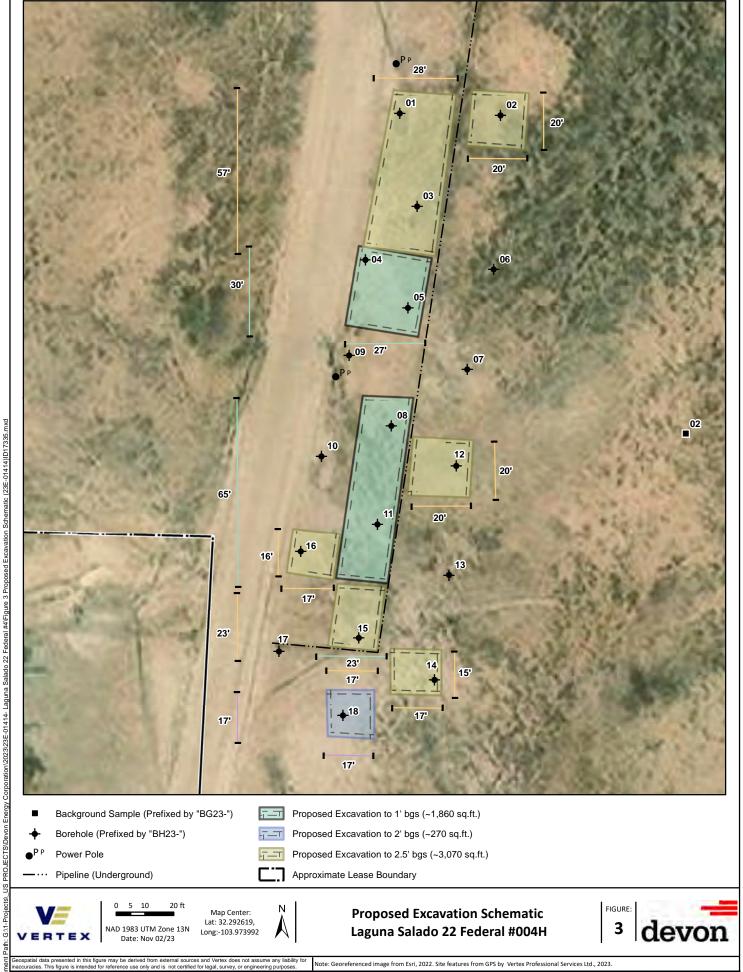


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## **ATTACHMENT 4**

## Received by OCD: 1/8/2025 1:37:44 PM

Client Name: Devon Energy Site Name: Laguna Salado 22 Federal #004 (Phase 2) NMOCD Tracking #: nAPP2317746199 Project #: 23E-01414-02 Lab Reports: 2307983, 2307A39 and 2307B06

|           |            | ble 3. Initial Characteriza | -   |   |   | Laborator          | y Results                           | -   |                                      |  | feet bgs                       |  |  |
|-----------|------------|-----------------------------|---|---|---|--------------------|-------------------------------------|---|--------------------------------------|--|--------------------------------|--|--|
|           | Sample De  | scription                   | Fi  | eld Screeni   | ng  |                    |                                     | Petrole                                   | troleum Hydrocarbons                 |  |                                |  |  |
| Sample ID | Depth (ft) | Sample Date                 | Ovolatile Organic Compounds           (PID) | Extractable Organic           3         Compounds (PetroFlag) | ()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>( | euezuag<br>(mg/kg) | atile<br>(Total)<br>BLEX<br>(mg/kg) | ଇଥି Gasoline Range Organics<br>କ୍ଷି (GRO) | 없 Diesel Range Organics<br>(영) (DRO) | Extractaple<br>Motor Oil Range Organics<br>(MRO) | e<br>(Oxo +<br>Vxb)<br>(mg/kg) | କ୍ତି<br>ସୁସେଶ Petroleum<br>କ୍ରି Hydrocarbons (TPH) | Inorganic<br>Chloride Concentration<br>(mg/kg) |
| BG23-01   | 0          | July 19, 2023               | 0   | 64  | 1,590   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 2,500  |
| BG23-01   | 2          | July 19, 2023               | 0   | 77  | 4,789   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 6,100  |
| BG23-02   | 0          | July 19, 2023               | 0   | 76  | 28,378  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 34,000   |
| 0023 02   | 2          | July 19, 2023               | 0   | 66  | 5,545   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 6,000  |
| BG23-03   | 0          | July 19, 2023               | 0   | 75  | 656   | ND<br>ND           | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 970  |
|           | 2          | July 19, 2023               | 0   | 69  | 190   |                    | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 620<br>12,490                                  |
| Average   | 0          | -                           | -   | -   | -   | -                  | -                                   | -   | -                                    | -  | -                              | -  | 4,240  |
|           | Z          | -                           |   |   |   |                    |                                     |   |                                      |  |                                |  | 4,240  |
|           | 0          | July 19, 2023               | 0   | 136   | 14,122  | ND                 | ND                                  | ND  | 10                                   | ND   | 10                             | 10   | 35000  |
| BH23-01   | 2          | July 19, 2023               | 0   | 50  | 5,835   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 6500   |
|           | 0          | July 19, 2023               | 0   | 246   | 19,032  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 19000  |
| BH23-02   | 2          | July 19, 2023               | 0   | 56  | 7,754   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 6600   |
|           | 0          | July 20, 2023               | 0   | 46  | 25,041  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 29000  |
| BH23-03   | 2          | July 20, 2023               | 0   | 67  | 13,112  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 13000  |
|           | 0          | July 20, 2023               | 0   | 97  | 28,464  | ND                 | ND                                  | ND  | 11                                   | ND   | 11                             | 11   | 41000  |
| BH23-04   | 2          | July 20, 2023               | 0   | 64  | 7,541   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 4500   |
| 51125 04  | 4          | July 20, 2023               | 0   | 85  | 5,257   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 3300   |
|           | 4          | July 20, 2023               | 0   | 54  | 28,456  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 77000  |
| BH23-05   | 2          | July 20, 2023               | 0   | 84  | 4,647   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 3100   |
| DI125 05  | 4          | July 20, 2023               | 0   | 74  | 5,097   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 2500   |
|           | 0          | July 20, 2023               | 0   | 238   | 24,390  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 21000  |
| BH23-06   | 2          | July 20, 2023               | 0   | 72  | 6,269   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 4400   |
| 51125 00  | 4          | July 20, 2023               | 0   | 38  | 5,647   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 4500   |
|           | 0          | July 20, 2023               | 0   | 53  | 23,009  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 27000  |
| BH23-07   | 2          | July 20, 2023               | 0   | 44  | 4,161   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 3400   |
|           | 0          | July 20, 2023               | 0   | 51  | 28,404  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 42000  |
| BH23-08   | 2          | July 20, 2023               | 0   | 81  | 4,733   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 5500   |
|           | 0          | July 20, 2023               | 0   | 270   | 21,467  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 25000  |
| BH23-09   | 2          | July 20, 2023               | 0   | 68  | 5,370   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 5600   |
|           | 4          | July 20, 2023               | 0   | 0   | 3,397   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 3300   |
|           | 0          | July 21, 2023               | 0   | 41  | 19,253  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 29000  |
| BH23-10   | 2          | July 21, 2023               | 0   | 80  | 3,728   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 3600   |
|           | 3.5        | July 21, 2023               | 0   | 90  | 4,598   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 3900   |
|           | 0          | July 21, 2023               | 0   | 190   | 28,456  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 41000  |
| BH23-11   | 2          | July 21, 2023               | 0   | 82  | 4,570   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 4400   |
| DU122 42  | 0          | July 21, 2023               | 0   | 75  | 7,510   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 9700   |
| BH23-12   | 2          | July 21, 2023               | 0   | 51  | 9,299   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 8900   |
| DU122 42  | 0          | July 21, 2023               | 0   | 63  | 12,156  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 13000  |
| BH23-13   | 2          | July 21, 2023               | 0   | 86  | 4,736   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 4900   |
|           | 0          | July 21, 2023               | 0   | 73  | 20,857  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 40000  |
| BH23-14   | 2          | July 21, 2023               | 0   | 81  | 7,223   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 7500   |
|           | 4          | July 21, 2023               | 0   | 119   | 5,644   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 8600   |
|           | 0          | July 21, 2023               | 0   | 294   | 23,003  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 27000  |
| BH23-15   | 2          | July 21, 2023               | 0   | 103   | 6,001   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 6500   |
|           | 4          | July 21, 2023               | 0   | 82  | 5,387   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 7500   |
|           | 0          | July 21, 2023               | 0   | 57  | 28,395  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 37000  |
| BH23-16   | 2          | July 21, 2023               | 0   | 56  | 8,373   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 8300   |
|           | 4          | July 21, 2023               | 0   | 96  | 7,782   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 5600   |
|           | 0          | July 21, 2023               | 0   | 89  | 19,243  | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 22000  |
| BH23-17   | 2          | July 21, 2023               | 0   | 69  | 7,359   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 5700   |
|           | 4          | July 21, 2023               | 0   | -   | 8,358   | ND                 | ND                                  | ND  | ND                                   | ND   | ND                             | ND   | 7000   |



Client Name: Devon Energy Site Name: Laguna Salado 22 Federal #004 (Phase 2) NMOCD Tracking #: nAPP2317746199 Project #: 23E-01414-02 Lab Reports: 2307983, 2307A39 and 2307B06

|                    | Та         | ble 3. Initial Characteriza | tion Samp                           | le Field So                                  | reen and               | Laborator | y Results    | - Depth to                       | Groundw                        | ater <50 f                        | eet bgs     |                                       |                        |
|--------------------|------------|-----------------------------|-------------------------------------|--|------------------------|-----------|--------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|------------------------|
| Sample Description |            |                             | Field Screening                     |  |                        |           |              | Petrole                          | um Hydrod                      | carbons                           |             |                                       |                        |
|                    |            |                             | Volatile                            |  |                        |           |              | Extractable                      |                                |                                   |             | Inorganic                             |                        |
| Sample ID          | Depth (ft) | Sample Date                 | Volatile Organic Compounds<br>(PID) | Extractable Organic<br>Compounds (PetroFlag) | Chloride Concentration | Benzene   | BTEX (Total) | Gasoline Range Organics<br>(GRO) | Diesel Range Organics<br>(DRO) | Motor Oil Range Organics<br>(MRO) | (GRO + DRO) | Total Petroleum<br>Hydrocarbons (TPH) | Chloride Concentration |
|                    |            |                             | (ppm)                               | (ppm)  | (ppm)                  | (mg/kg)   | (mg/kg)      | (mg/kg)                          | (mg/kg)                        | (mg/kg)                           | (mg/kg)     | (mg/kg)                               | (mg/kg)                |
|                    | 0          | July 21, 2023               | 0                                   | 69   | 22,832                 | ND        | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 48000                  |
| BH23-18            | 2          | July 21, 2023               | 0                                   | 86   | 7,788                  | ND        | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 5900                   |
|                    | 4          | July 21, 2023               | 0                                   | 85   | 9,703                  | ND        | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 9300                   |

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)





July 31, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX:

RE: Laguna Salado Fed 4

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2307983

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 10 sample(s) on 7/21/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**CLIENT:** Devon Energy

Analytical Report Lab Order 2307983

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/31/2023 Client Sample ID: BG23-01 0.0' Collection Date: 7/19/2023 10:00:00 AM

| <b>Project:</b> | Laguna Salado Fed 4     |              | Collection Date: 7/19/2023 10:00:00 AM |                      |    |                       |  |  |  |  |  |
|-----------------|-------------------------|--------------|--|----------------------|----|-----------------------|--|--|--|--|--|
| Lab ID:         | 2307983-001             | Matrix: SOIL | Matrix: SOIL Received Date: 7/21/2     |                      |    |                       |  |  |  |  |  |
| Analyses        |                         | Result       | RL Qu                                  | <b>RL</b> Qual Units |    | Date Analyzed         |  |  |  |  |  |
| EPA ME          | THOD 8015M/D: DIESEL RA | NGE ORGANICS |  |                      |    | Analyst: PRD          |  |  |  |  |  |
| Diesel R        | ange Organics (DRO)     | ND           | 9.6                                    | mg/Kg                | 1  | 7/23/2023 12:23:57 PM |  |  |  |  |  |
| Motor Oi        | I Range Organics (MRO)  | ND           | 48                                     | mg/Kg                | 1  | 7/23/2023 12:23:57 PM |  |  |  |  |  |
| Surr: [         | DNOP                    | 105          | 69-147                                 | %Rec                 | 1  | 7/23/2023 12:23:57 PM |  |  |  |  |  |
| EPA ME          | THOD 8015D: GASOLINE RA | ANGE         |  |                      |    | Analyst: <b>JJP</b>   |  |  |  |  |  |
| Gasoline        | Range Organics (GRO)    | ND           | 4.8                                    | mg/Kg                | 1  | 7/24/2023 9:38:52 PM  |  |  |  |  |  |
| Surr: E         | 3FB                     | 95.5         | 15-244                                 | %Rec                 | 1  | 7/24/2023 9:38:52 PM  |  |  |  |  |  |
| EPA ME          | THOD 8021B: VOLATILES   |              |  |                      |    | Analyst: <b>JJP</b>   |  |  |  |  |  |
| Benzene         |                         | ND           | 0.024                                  | mg/Kg                | 1  | 7/24/2023 9:38:52 PM  |  |  |  |  |  |
| Toluene         |                         | ND           | 0.048                                  | mg/Kg                | 1  | 7/24/2023 9:38:52 PM  |  |  |  |  |  |
| Ethylben        | zene                    | ND           | 0.048                                  | mg/Kg                | 1  | 7/24/2023 9:38:52 PM  |  |  |  |  |  |
| Xylenes,        | Total                   | ND           | 0.096                                  | mg/Kg                | 1  | 7/24/2023 9:38:52 PM  |  |  |  |  |  |
| Surr: 4         | 4-Bromofluorobenzene    | 119          | 39.1-146                               | %Rec                 | 1  | 7/24/2023 9:38:52 PM  |  |  |  |  |  |
| EPA ME          | THOD 300.0: ANIONS      |              |  |                      |    | Analyst: RBC          |  |  |  |  |  |
| Chloride        |                         | 2500         | 150                                    | mg/Kg                | 50 | 7/26/2023 9:53:56 AM  |  |  |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 14

Project: Laguna Salado Fed 4

**Analytical Report** Lab Order 2307983

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/31/2023

Client Sample ID: BG23-01 2.0' Collection Date: 7/19/2023 10:10:00 AM **Received Date:** 7/21/2023 7:50:00 AM

| Lab ID: 2307983-002              | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/21/2023 7:50:00 AM |     |                       |  |  |  |  |
|----------------------------------|--------------|----------|--|-----|-----------------------|--|--|--|--|
| Analyses                         | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed         |  |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |  |     | Analyst: PRD          |  |  |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.6      | mg/Kg                                      | 1   | 7/23/2023 12:48:23 PM |  |  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 48       | mg/Kg                                      | 1   | 7/23/2023 12:48:23 PM |  |  |  |  |
| Surr: DNOP                       | 88.2         | 69-147   | %Rec                                       | 1   | 7/23/2023 12:48:23 PM |  |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |  |     | Analyst: JJP          |  |  |  |  |
| Gasoline Range Organics (GRO)    | ND           | 5.0      | mg/Kg                                      | 1   | 7/24/2023 10:49:22 PM |  |  |  |  |
| Surr: BFB                        | 92.6         | 15-244   | %Rec                                       | 1   | 7/24/2023 10:49:22 PM |  |  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |          |  |     | Analyst: JJP          |  |  |  |  |
| Benzene                          | ND           | 0.025    | mg/Kg                                      | 1   | 7/24/2023 10:49:22 PM |  |  |  |  |
| Toluene                          | ND           | 0.050    | mg/Kg                                      | 1   | 7/24/2023 10:49:22 PM |  |  |  |  |
| Ethylbenzene                     | ND           | 0.050    | mg/Kg                                      | 1   | 7/24/2023 10:49:22 PM |  |  |  |  |
| Xylenes, Total                   | ND           | 0.10     | mg/Kg                                      | 1   | 7/24/2023 10:49:22 PM |  |  |  |  |
| Surr: 4-Bromofluorobenzene       | 116          | 39.1-146 | %Rec                                       | 1   | 7/24/2023 10:49:22 PM |  |  |  |  |
| EPA METHOD 300.0: ANIONS         |              |          |  |     | Analyst: RBC          |  |  |  |  |
| Chloride                         | 6100         | 300      | mg/Kg                                      | 100 | 7/26/2023 10:06:21 AM |  |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

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Project: Laguna Salado Fed 4

Analytical Report

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order **2307983** Date Reported: **7/31/2023** 

Client Sample ID: BG23-02 0.0' Collection Date: 7/19/2023 10:20:00 AM Received Date: 7/21/2023 7:50:00 AM

| Lab ID: 2307983-003              | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/21/2023 7:50:00 AM |     |                       |  |  |  |
|----------------------------------|--------------|----------|--|-----|-----------------------|--|--|--|
| Analyses                         | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |  |     | Analyst: PRD          |  |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.4      | mg/Kg                                      | 1   | 7/23/2023 1:12:51 PM  |  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 47       | mg/Kg                                      | 1   | 7/23/2023 1:12:51 PM  |  |  |  |
| Surr: DNOP                       | 91.2         | 69-147   | %Rec                                       | 1   | 7/23/2023 1:12:51 PM  |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |  |     | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)    | ND           | 5.0      | mg/Kg                                      | 1   | 7/24/2023 11:59:42 PM |  |  |  |
| Surr: BFB                        | 92.6         | 15-244   | %Rec                                       | 1   | 7/24/2023 11:59:42 PM |  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |          |  |     | Analyst: JJP          |  |  |  |
| Benzene                          | ND           | 0.025    | mg/Kg                                      | 1   | 7/24/2023 11:59:42 PM |  |  |  |
| Toluene                          | ND           | 0.050    | mg/Kg                                      | 1   | 7/24/2023 11:59:42 PM |  |  |  |
| Ethylbenzene                     | ND           | 0.050    | mg/Kg                                      | 1   | 7/24/2023 11:59:42 PM |  |  |  |
| Xylenes, Total                   | ND           | 0.099    | mg/Kg                                      | 1   | 7/24/2023 11:59:42 PM |  |  |  |
| Surr: 4-Bromofluorobenzene       | 117          | 39.1-146 | %Rec                                       | 1   | 7/24/2023 11:59:42 PM |  |  |  |
| EPA METHOD 300.0: ANIONS         |              |          |  |     | Analyst: RBC          |  |  |  |
| Chloride                         | 34000        | 1500     | mg/Kg                                      | 500 | 7/26/2023 10:18:46 AM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- RL Re

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Project: Laguna Salado Fed 4

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307983 Date Reported: 7/31/2023

Client Sample ID: BG23-02 2.0' Collection Date: 7/19/2023 10:30:00 AM

| Lab ID: 2307983-004            | Matrix: SOIL  | Rece     | <b>Received Date:</b> 7/21/2023 7:50:00 AM |     |                       |  |  |  |
|--------------------------------|---------------|----------|--|-----|-----------------------|--|--|--|
| Analyses                       | Result        | RL Qu    | al Units                                   | DF  | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL R   | ANGE ORGANICS |          |  |     | Analyst: PRD          |  |  |  |
| Diesel Range Organics (DRO)    | ND            | 9.8      | mg/Kg                                      | 1   | 7/23/2023 1:37:25 PM  |  |  |  |
| Motor Oil Range Organics (MRO) | ND            | 49       | mg/Kg                                      | 1   | 7/23/2023 1:37:25 PM  |  |  |  |
| Surr: DNOP                     | 89.4          | 69-147   | %Rec                                       | 1   | 7/23/2023 1:37:25 PM  |  |  |  |
| EPA METHOD 8015D: GASOLINE F   | RANGE         |          |  |     | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)  | ND            | 4.9      | mg/Kg                                      | 1   | 7/25/2023 12:23:08 AM |  |  |  |
| Surr: BFB                      | 94.8          | 15-244   | %Rec                                       | 1   | 7/25/2023 12:23:08 AM |  |  |  |
| EPA METHOD 8021B: VOLATILES    |               |          |  |     | Analyst: JJP          |  |  |  |
| Benzene                        | ND            | 0.024    | mg/Kg                                      | 1   | 7/25/2023 12:23:08 AM |  |  |  |
| Toluene                        | ND            | 0.049    | mg/Kg                                      | 1   | 7/25/2023 12:23:08 AM |  |  |  |
| Ethylbenzene                   | ND            | 0.049    | mg/Kg                                      | 1   | 7/25/2023 12:23:08 AM |  |  |  |
| Xylenes, Total                 | ND            | 0.097    | mg/Kg                                      | 1   | 7/25/2023 12:23:08 AM |  |  |  |
| Surr: 4-Bromofluorobenzene     | 120           | 39.1-146 | %Rec                                       | 1   | 7/25/2023 12:23:08 AM |  |  |  |
| EPA METHOD 300.0: ANIONS       |               |          |  |     | Analyst: RBC          |  |  |  |
| Chloride                       | 6000          | 300      | mg/Kg                                      | 100 | 7/26/2023 10:31:10 AM |  |  |  |
|                                |               |          |  |     |                       |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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Laguna Salado Fed 4

Project:

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307983 Date Reported: 7/31/2023

Client Sample ID: BG23-03 0.0' Collection Date: 7/19/2023 10:40:00 AM Received Date: 7/21/2023 7:50:00 AM

| Lab ID: 2307983-005              | Matrix: SOIL | Rece     | eived Date: | 7/21/2 | 023 7:50:00 AM        |
|----------------------------------|--------------|----------|-------------|--------|-----------------------|
| Analyses                         | Result       | RL Qu    | al Units    | DF     | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |             |        | Analyst: PRD          |
| Diesel Range Organics (DRO)      | ND           | 9.6      | mg/Kg       | 1      | 7/23/2023 2:01:58 PM  |
| Motor Oil Range Organics (MRO)   | ND           | 48       | mg/Kg       | 1      | 7/23/2023 2:01:58 PM  |
| Surr: DNOP                       | 79.0         | 69-147   | %Rec        | 1      | 7/23/2023 2:01:58 PM  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |             |        | Analyst: JJP          |
| Gasoline Range Organics (GRO)    | ND           | 4.8      | mg/Kg       | 1      | 7/25/2023 12:46:30 AM |
| Surr: BFB                        | 93.6         | 15-244   | %Rec        | 1      | 7/25/2023 12:46:30 AM |
| EPA METHOD 8021B: VOLATILES      |              |          |             |        | Analyst: JJP          |
| Benzene                          | ND           | 0.024    | mg/Kg       | 1      | 7/25/2023 12:46:30 AM |
| Toluene                          | ND           | 0.048    | mg/Kg       | 1      | 7/25/2023 12:46:30 AM |
| Ethylbenzene                     | ND           | 0.048    | mg/Kg       | 1      | 7/25/2023 12:46:30 AM |
| Xylenes, Total                   | ND           | 0.096    | mg/Kg       | 1      | 7/25/2023 12:46:30 AM |
| Surr: 4-Bromofluorobenzene       | 118          | 39.1-146 | %Rec        | 1      | 7/25/2023 12:46:30 AM |
| EPA METHOD 300.0: ANIONS         |              |          |             |        | Analyst: RBC          |
| Chloride                         | 970          | 60       | mg/Kg       | 20     | 7/25/2023 9:07:50 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado Fed 4

Analytical Report

## Hall Environmental Analysis Laboratory, Inc.

Lab Order **2307983** Date Reported: **7/31/2023** 

Client Sample ID: BG23-03 2.0' Collection Date: 7/19/2023 10:50:00 AM Received Date: 7/21/2023 7:50:00 AM

| Lab ID: 2307983-006  | Matrix: SOIL   | Rece              | eived Date:   | 7/21/2 | 2023 7:50:00 AM                                    |
|--|----------------|-------------------|---------------|--------|--|
| Analyses   | Result         | RL Qu             | al Units      | DF     | Date Analyzed                                      |
| EPA METHOD 8015M/D: DIESEL   | RANGE ORGANICS |                   |               |        | Analyst: PRD                                       |
| Diesel Range Organics (DRO)  | ND             | 9.4               | mg/Kg         | 1      | 7/23/2023 2:26:32 PM                               |
| Motor Oil Range Organics (MRO)   | ND             | 47                | mg/Kg         | 1      | 7/23/2023 2:26:32 PM                               |
| Surr: DNOP   | 80.9           | 69-147            | %Rec          | 1      | 7/23/2023 2:26:32 PM                               |
| EPA METHOD 8015D: GASOLINE   | RANGE          |                   |               |        | Analyst: JJP                                       |
| Gasoline Range Organics (GRO)  | ND             | 5.0               | mg/Kg         | 1      | 7/25/2023 1:10:05 AM                               |
| Surr: BFB  | 94.2           | 15-244            | %Rec          | 1      | 7/25/2023 1:10:05 AM                               |
| EPA METHOD 8021B: VOLATILE   | S              |                   |               |        | Analyst: JJP                                       |
| Benzene  | ND             | 0.025             | mg/Kg         | 1      | 7/25/2023 1:10:05 AM                               |
| Toluene  | ND             | 0.050             | mg/Kg         | 1      | 7/25/2023 1:10:05 AM                               |
| Ethylbenzene   | ND             | 0.050             | mg/Kg         | 1      | 7/25/2023 1:10:05 AM                               |
| Xylenes, Total   | ND             | 0.099             | mg/Kg         | 1      | 7/25/2023 1:10:05 AM                               |
| Surr: 4-Bromofluorobenzene   | 119            | 39.1-146          | %Rec          | 1      | 7/25/2023 1:10:05 AM                               |
| EPA METHOD 300.0: ANIONS   |                |                   |               |        | Analyst: RBC                                       |
| Chloride   | 620            | 61                | mg/Kg         | 20     | 7/25/2023 9:20:15 PM                               |
| Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>EPA METHOD 300.0: ANIONS | ND<br>119      | 0.099<br>39.1-146 | mg/Kg<br>%Rec | 1<br>1 | 7/25/2023 1:10:05<br>7/25/2023 1:10:05<br>Analyst: |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

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Project: Laguna Salado Fed 4

**Analytical Report** 

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307983 Date Reported: 7/31/2023

Client Sample ID: BH23-01 0.0' Collection Date: 7/19/2023 11:00:00 AM

| Matrix: SOIL | Rece  | <b>Received Date:</b> 7/21/2023 7:50:00 AM  |   |   |  |  |  |
|--------------|---|---|---|---|--|--|--|
| Result       | RL Qu   | al Units  | DF  | Date Analyzed   |  |  |  |
| ORGANICS     |   |   |   | Analyst: PRD  |  |  |  |
| ND           | 9.7   | mg/Kg   | 1   | 7/23/2023 2:51:05 PM  |  |  |  |
| ND           | 48  | mg/Kg   | 1   | 7/23/2023 2:51:05 PM  |  |  |  |
| 92.1         | 69-147  | %Rec  | 1   | 7/23/2023 2:51:05 PM  |  |  |  |
| E            |   |   |   | Analyst: JJP  |  |  |  |
| ND           | 4.8   | mg/Kg   | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| 91.7         | 15-244  | %Rec  | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
|              |   |   |   | Analyst: JJP  |  |  |  |
| ND           | 0.024   | mg/Kg   | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| ND           | 0.048   | mg/Kg   | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| ND           | 0.048   | mg/Kg   | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| ND           | 0.097   | mg/Kg   | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| 116          | 39.1-146  | %Rec  | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
|              |   |   |   | Analyst: RBC  |  |  |  |
| 35000        | 1500  | mg/Kg   | 500   | 7/26/2023 10:43:34 AM   |  |  |  |
|              | Result<br>CORGANICS<br>ND<br>92.1<br>E<br>ND<br>91.7<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>116 | Result         RL Qu           E ORGANICS         ND         9.7           ND         48         92.1         69-147           E         ND         4.8         91.7         15-244           ND         0.024         ND         0.048           ND         0.048         ND         0.097           116         39.1-146         39.1-146 | Result         RL         Qual         Units           Image: Sorganics         ND         9.7         mg/Kg           ND         48         mg/Kg           92.1         69-147         %Rec           E         ND         4.8         mg/Kg           91.7         15-244         %Rec           ND         0.024         mg/Kg           ND         0.048         mg/Kg           ND         0.048         mg/Kg           ND         0.097         mg/Kg           116         39.1-146         %Rec | Result         RL Qual         Units         DF           : ORGANICS         ND         9.7         mg/Kg         1           ND         48         mg/Kg         1           92.1         69-147         %Rec         1           92.1         69-147         %Rec         1           E         ND         4.8         mg/Kg         1           91.7         15-244         %Rec         1           ND         0.024         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.097         mg/Kg         1           ND         0.097         mg/Kg         1           116         39.1-146         %Rec         1 |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

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Project: Laguna Salado Fed 4

Analytical Report Lab Order 2307983

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/31/2023

Client Sample ID: BH23-01 2.0' Collection Date: 7/19/2023 11:10:00 AM Received Date: 7/21/2023 7:50:00 AM

| Lab ID: 2307983-008             | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/21/2023 7:50:00 AM |     |                       |  |  |  |
|---------------------------------|--------------|----------|--|-----|-----------------------|--|--|--|
| Analyses                        | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |  |     | Analyst: PRD          |  |  |  |
| Diesel Range Organics (DRO)     | ND           | 9.8      | mg/Kg                                      | 1   | 7/23/2023 3:15:40 PM  |  |  |  |
| Motor Oil Range Organics (MRO)  | ND           | 49       | mg/Kg                                      | 1   | 7/23/2023 3:15:40 PM  |  |  |  |
| Surr: DNOP                      | 92.4         | 69-147   | %Rec                                       | 1   | 7/23/2023 3:15:40 PM  |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG | θE           |          |  |     | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)   | ND           | 4.7      | mg/Kg                                      | 1   | 7/25/2023 1:56:52 AM  |  |  |  |
| Surr: BFB                       | 95.5         | 15-244   | %Rec                                       | 1   | 7/25/2023 1:56:52 AM  |  |  |  |
| EPA METHOD 8021B: VOLATILES     |              |          |  |     | Analyst: JJP          |  |  |  |
| Benzene                         | ND           | 0.024    | mg/Kg                                      | 1   | 7/25/2023 1:56:52 AM  |  |  |  |
| Toluene                         | ND           | 0.047    | mg/Kg                                      | 1   | 7/25/2023 1:56:52 AM  |  |  |  |
| Ethylbenzene                    | ND           | 0.047    | mg/Kg                                      | 1   | 7/25/2023 1:56:52 AM  |  |  |  |
| Xylenes, Total                  | ND           | 0.095    | mg/Kg                                      | 1   | 7/25/2023 1:56:52 AM  |  |  |  |
| Surr: 4-Bromofluorobenzene      | 120          | 39.1-146 | %Rec                                       | 1   | 7/25/2023 1:56:52 AM  |  |  |  |
| EPA METHOD 300.0: ANIONS        |              |          |  |     | Analyst: RBC          |  |  |  |
| Chloride                        | 6500         | 300      | mg/Kg                                      | 100 | 7/26/2023 10:55:59 AM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado Fed 4

**Analytical Report** Lab Order 2307983

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/31/2023

Client Sample ID: BH23-02 0.0' Collection Date: 7/19/2023 11:20:00 AM wed Data, 7/21/2022 7.50.00 AM ъ

| Lab ID: 2307983-009              | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/21/2023 7:50:00 AM |     |                       |  |  |  |
|----------------------------------|--------------|----------|--|-----|-----------------------|--|--|--|
| Analyses                         | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |  |     | Analyst: PRD          |  |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.3      | mg/Kg                                      | 1   | 7/23/2023 4:04:54 PM  |  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 46       | mg/Kg                                      | 1   | 7/23/2023 4:04:54 PM  |  |  |  |
| Surr: DNOP                       | 96.6         | 69-147   | %Rec                                       | 1   | 7/23/2023 4:04:54 PM  |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |  |     | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9      | mg/Kg                                      | 1   | 7/25/2023 2:20:16 AM  |  |  |  |
| Surr: BFB                        | 92.9         | 15-244   | %Rec                                       | 1   | 7/25/2023 2:20:16 AM  |  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |          |  |     | Analyst: JJP          |  |  |  |
| Benzene                          | ND           | 0.024    | mg/Kg                                      | 1   | 7/25/2023 2:20:16 AM  |  |  |  |
| Toluene                          | ND           | 0.049    | mg/Kg                                      | 1   | 7/25/2023 2:20:16 AM  |  |  |  |
| Ethylbenzene                     | ND           | 0.049    | mg/Kg                                      | 1   | 7/25/2023 2:20:16 AM  |  |  |  |
| Xylenes, Total                   | ND           | 0.097    | mg/Kg                                      | 1   | 7/25/2023 2:20:16 AM  |  |  |  |
| Surr: 4-Bromofluorobenzene       | 118          | 39.1-146 | %Rec                                       | 1   | 7/25/2023 2:20:16 AM  |  |  |  |
| EPA METHOD 300.0: ANIONS         |              |          |  |     | Analyst: RBC          |  |  |  |
| Chloride                         | 19000        | 1200     | mg/Kg                                      | 400 | 7/26/2023 11:08:23 AM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Laguna Salado Fed 4

Project:

**Analytical Report** Lab Order 2307983

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/31/2023

Client Sample ID: BH23-02 2.0' Collection Date: 7/19/2023 11:30:00 AM **Received Date:** 7/21/2023 7:50:00 AM

| Lab ID: 2307983-010              | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/21/2023 7:50:00 AM |     |                       |  |  |  |
|----------------------------------|--------------|----------|--|-----|-----------------------|--|--|--|
| Analyses                         | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |  |     | Analyst: PRD          |  |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.3      | mg/Kg                                      | 1   | 7/23/2023 4:29:31 PM  |  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 47       | mg/Kg                                      | 1   | 7/23/2023 4:29:31 PM  |  |  |  |
| Surr: DNOP                       | 91.8         | 69-147   | %Rec                                       | 1   | 7/23/2023 4:29:31 PM  |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |  |     | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)    | ND           | 4.8      | mg/Kg                                      | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| Surr: BFB                        | 93.6         | 15-244   | %Rec                                       | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |          |  |     | Analyst: JJP          |  |  |  |
| Benzene                          | ND           | 0.024    | mg/Kg                                      | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| Toluene                          | ND           | 0.048    | mg/Kg                                      | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| Ethylbenzene                     | ND           | 0.048    | mg/Kg                                      | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| Xylenes, Total                   | ND           | 0.095    | mg/Kg                                      | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| Surr: 4-Bromofluorobenzene       | 118          | 39.1-146 | %Rec                                       | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| EPA METHOD 300.0: ANIONS         |              |          |  |     | Analyst: RBC          |  |  |  |
| Chloride                         | 6600         | 300      | mg/Kg                                      | 100 | 7/26/2023 11:20:48 AM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

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| L.                  | onmental Analysis Laboratory, Inc.  | WO#: 2307983<br>31-Jul-23 |
|---------------------|-------------------------------------|---------------------------|
| Client:<br>Project: | Devon Energy<br>Laguna Salado Fed 4 |                           |

| Sample ID: MB-7   | <b>76439</b> Sam   | рТуре: <b>МЕ</b>   | BLK   | Tes                                 | tCode: EF  | PA Method  | 300.0: Anions  | ;         |          |      |
|---|--|--|---|-------------------------------------|--|--|--|-----------|----------|------|
| Client ID: PBS  | Ba   | tch ID: 764  | 439   | F                                   | RunNo: <b>98</b>   | 3504   |  |           |          |      |
| Prep Date: 7/25   | 5/2023 Analysis  | Date: 7/   | 25/2023   | 5                                   | SeqNo: 35  | 586441   | Units: mg/K  | g         |          |      |
| Analyte   | Result   | PQL  | SPK value   | SPK Ref Val                         | %REC   | LowLimit   | HighLimit  | %RPD      | RPDLimit | Qual |
| Chloride  | ND   | 1.5  |   |                                     |  |  |  |           |          |      |
| Sample ID: LCS-7  | -76439 Sam   | рТуре: <b>LC</b>   | S   | Tes                                 | tCode: EF  | PA Method  | 300.0: Anions  | ;         |          |      |
| Client ID: LCSS   | <b>s</b> Ba  | tch ID: 764  | 439   | F                                   | RunNo: <b>98</b>   | 3504   |  |           |          |      |
| Prep Date: 7/25   | 5/2023 Analysis  | a Date: 7/   | 25/2023   | S                                   | SeqNo: 35  | 586442   | Units: mg/K  | g         |          |      |
| Analyte   | Result   | PQL  | SPK value   | SPK Ref Val                         | %REC   | LowLimit   | HighLimit  | %RPD      | RPDLimit | Qual |
| Chlorida  | 14   | 1.5  | 15.00   | 0                                   | 02.0   | 00   | 110  |           |          |      |
| Chloride  | 14   | 1.5  | 15.00   | 0                                   | 92.8   | 90   | 110  |           |          |      |
| Sample ID: MB-7   |  | рТуре: <b>МЕ</b>   |   | -                                   |  |  | 300.0: Anions  | ;         |          |      |
|   | 76448 Sam  |  | BLK   | Tes                                 |  | PA Method  |  | ;         |          |      |
| Sample ID: MB-70<br>Client ID: PBS  | <b>76448</b> Sam<br>Ba   | рТуре: <b>МЕ</b>   | 3LK<br>448  | Tes                                 | tCode: EF  | PA Method<br>3504  |  |           |          |      |
| Sample ID: MB-70<br>Client ID: PBS  | <b>76448</b> Sam<br>Ba   | pType: <b>ME</b><br>tch ID: <b>76</b> 4  | 3LK<br>448<br>25/2023                                     | Tes                                 | tCode: EF<br>RunNo: 98<br>SeqNo: 38  | PA Method<br>3504  | 300.0: Anions  |           | RPDLimit | Qual |
| Sample ID: MB-70<br>Client ID: PBS<br>Prep Date: 7/25   | 76448 Sam<br>Ba<br>5/2023 Analysis                                       | pType: <b>ME</b><br>tch ID: <b>76</b> 4<br>5 Date: <b>7</b> /2   | 3LK<br>448<br>25/2023                                     | Tes<br>F                            | tCode: EF<br>RunNo: 98<br>SeqNo: 38  | PA Method<br>3504<br>586471                                  | <b>300.0: Anions</b><br>Units: <b>mg/K</b>                 | g         | RPDLimit | Qual |
| Sample ID: MB-70<br>Client ID: PBS<br>Prep Date: 7/25<br>Analyte  | 76448 Sam<br>Ba<br>5/2023 Analysis<br>Result<br>ND                       | pType: <b>ME</b><br>tch ID: <b>76</b> 4<br>s Date: <b>7</b> /<br>PQL   | 3LK<br>448<br>25/2023<br>SPK value                        | Tes<br>F<br>S<br>SPK Ref Val        | tCode: EF<br>RunNo: 98<br>SeqNo: 38<br>%REC  | PA Method<br>3504<br>586471<br>LowLimit                      | <b>300.0: Anions</b><br>Units: <b>mg/K</b>                 | g<br>%RPD | RPDLimit | Qual |
| Sample ID: MB-70<br>Client ID: PBS<br>Prep Date: 7/25<br>Analyte<br>Chloride  | 76448 Sam<br>Ba<br>5/2023 Analysis<br>Result<br>ND<br>-76448 Sam         | pType: <b>ME</b><br>tch ID: <b>76</b> 4<br>3 Date: <b>7/</b><br>PQL<br>1.5   | 3LK<br>448<br>25/2023<br>SPK value                        | Tes<br>F<br>SPK Ref Val<br>Tes      | tCode: EF<br>RunNo: 98<br>SeqNo: 38<br>%REC  | PA Method<br>3504<br>586471<br>LowLimit<br>PA Method         | <b>300.0: Anions</b><br>Units: <b>mg/K</b><br>HighLimit    | g<br>%RPD | RPDLimit | Qual |
| Sample ID: MB-70<br>Client ID: PBS<br>Prep Date: 7/25<br>Analyte<br>Chloride<br>Sample ID: LCS-7<br>Client ID: LCSS | 76448 Sam<br>Ba<br>5/2023 Analysis<br>Result<br>ND<br>-76448 Sam<br>S Ba | pType: <b>ME</b><br>tch ID: <b>76</b><br>Date: <b>7</b> /<br>PQL<br>1.5<br>pType: <b>LC</b>                        | 3LK<br>448<br>25/2023<br>SPK value<br>S<br>448            | Tes<br>F<br>SPK Ref Val<br>Tes<br>F | tCode: EF<br>RunNo: 98<br>SeqNo: 38<br>%REC<br>tCode: EF                           | PA Method<br>3504<br>586471<br>LowLimit<br>PA Method<br>3504 | <b>300.0: Anions</b><br>Units: <b>mg/K</b><br>HighLimit    | g<br>%RPD | RPDLimit | Qual |
| Sample ID: MB-70<br>Client ID: PBS<br>Prep Date: 7/25<br>Analyte<br>Chloride<br>Sample ID: LCS-7<br>Client ID: LCSS | 76448 Sam<br>Ba<br>5/2023 Analysis<br>Result<br>ND<br>-76448 Sam<br>S Ba | pType: <b>ME</b><br>tch ID: <b>76</b><br>s Date: <b>7</b> /<br>PQL<br>1.5<br>pType: <b>LC</b><br>tch ID: <b>76</b> | 3LK<br>448<br>25/2023<br>SPK value<br>S<br>448<br>25/2023 | Tes<br>F<br>SPK Ref Val<br>Tes<br>F | tCode: EF<br>RunNo: 98<br>SeqNo: 35<br>%REC<br>tCode: EF<br>RunNo: 98<br>SeqNo: 35 | PA Method<br>3504<br>586471<br>LowLimit<br>PA Method<br>3504 | 300.0: Anions<br>Units: mg/K<br>HighLimit<br>300.0: Anions | g<br>%RPD | RPDLimit | Qual |

Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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| Client: De                   | von Energy        |                              |           |             |                 |           |                    |           |          |      |
|------------------------------|-------------------|------------------------------|-----------|-------------|-----------------|-----------|--------------------|-----------|----------|------|
| Project: La                  | guna Salado Fed 4 | 1                            |           |             |                 |           |                    |           |          |      |
| Sample ID: LCS-76387         | SampTy            | /pe: <b>LC</b>               | S         | Tes         | tCode: El       | PA Method | 8015M/D: Die       | sel Range | Organics |      |
| Client ID: LCSS              | Batch             | Batch ID: 76387 RunNo: 98368 |           |             |                 |           |                    |           |          |      |
| Prep Date: 7/21/2023         | Analysis Da       | ate: 7/                      | 23/2023   | S           | SeqNo: 3        | 583070    | Units: <b>mg/K</b> | g         |          |      |
| Analyte                      | Result            | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD      | RPDLimit | Qual |
| Diesel Range Organics (DRO)  | 50                | 10                           | 50.00     | 0           | 99.3            | 61.9      | 130                |           |          |      |
| Surr: DNOP                   | 4.6               |                              | 5.000     |             | 91.4            | 69        | 147                |           |          |      |
| Sample ID: MB-76387          | SampTy            | /pe: <b>ME</b>               | BLK       | Tes         | tCode: El       | PA Method | 8015M/D: Die       | sel Range | Organics |      |
| Client ID: PBS               | Batch             | ID: 76                       | 387       | F           | RunNo: <b>9</b> | 3451      |                    |           |          |      |
| Prep Date: 7/21/2023         | Analysis Da       | ate: <b>7/</b> 2             | 24/2023   | Ş           | SeqNo: 3        | 583918    | Units: <b>mg/K</b> | g         |          |      |
| Analyte                      | Result            | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD      | RPDLimit | Qual |
| Diesel Range Organics (DRO)  | ND                | 10                           |           |             |                 |           |                    |           |          |      |
| Motor Oil Range Organics (MI | RO) ND            | 50                           |           |             |                 |           |                    |           |          |      |
| Surr: DNOP                   | 11                |                              | 10.00     |             | 107             | 69        | 147                |           |          |      |
|                              |                   |                              |           |             |                 |           |                    |           |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2307983

31-Jul-23

WO#:

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Client:<br>Project:                     | Devon En<br>Laguna Sa | 0.         | 4       |           |  |                  |           |                    |            |          |      |
|---|-----------------------|------------|---------|-----------|--|------------------|-----------|--------------------|------------|----------|------|
| Sample ID:                              | lcs-76381             | SampT      | ype: LC | S         | Tes  | tCode: EF        | PA Method | 8015D: Gaso        | line Range |          |      |
| Client ID:                              | LCSS                  | Batch      | ID: 76  | 381       | F  | RunNo: <b>98</b> | 8452      |                    |            |          |      |
| Prep Date:                              | 7/21/2023             | Analysis D | ate: 7/ | 24/2023   | S  | SeqNo: 3         | 583843    | Units: mg/K        | g          |          |      |
| Analyte                                 |                       | Result     | PQL     | SPK value | SPK Ref Val                                  | %REC             | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Gasoline Rang                           | e Organics (GRO)      | 24         | 5.0     | 25.00     | 0  | 94.4             | 70        | 130                |            |          |      |
| Surr: BFB                               |                       | 2000       |         | 1000      |  | 197              | 15        | 244                |            |          |      |
| Sample ID:                              | mb-76381              | SampT      | ype: ME | BLK       | Tes  | tCode: EF        | PA Method | 8015D: Gaso        | line Range |          |      |
| Client ID:                              | PBS                   | Batch      | ID: 76  | 381       | RunNo: 98452                                 |                  |           |                    |            |          |      |
| Prep Date:                              | 7/21/2023             | Analysis D | ate: 7/ | 24/2023   | S  | SeqNo: 3         | 583844    | Units: mg/K        | g          |          |      |
| Analyte                                 |                       | Result     | PQL     | SPK value | SPK Ref Val                                  | %REC             | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Gasoline Rang                           | e Organics (GRO)      | ND         | 5.0     |           |  |                  |           |                    |            |          |      |
| Surr: BFB                               |                       | 950        |         | 1000      |  | 95.2             | 15        | 244                |            |          |      |
| Sample ID:                              | 2307983-001ams        | SampT      | ype: MS | 6         | Tes  | stCode: EF       | PA Method | 8015D: Gaso        | line Range |          |      |
| Client ID:                              | BG23-01 0.0'          | Batch      | ID: 76  | 381       | F  | RunNo: <b>98</b> | 8452      |                    |            |          |      |
| Prep Date:                              | 7/21/2023             | Analysis D | ate: 7/ | 24/2023   | 5  | SeqNo: 3         | 584038    | Units: mg/K        | g          |          |      |
| Analyte                                 |                       | Result     | PQL     | SPK value | SPK Ref Val                                  | %REC             | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Gasoline Rang                           | e Organics (GRO)      | 21         | 4.8     | 23.99     | 0  | 89.5             | 70        | 130                |            |          |      |
| Surr: BFB                               |                       | 1900       |         | 959.7     |  | 199              | 15        | 244                |            |          |      |
| Sample ID:                              | 2307983-001amsd       | SampT      | уре: МS | SD        | D TestCode: EPA Method 8015D: Gasoline Range |                  |           |                    |            |          |      |
| Client ID:                              | BG23-01 0.0'          | Batch      | ID: 76  | 381       | F  | RunNo: <b>98</b> | 8452      |                    |            |          |      |
| Prep Date:                              | 7/21/2023             | Analysis D | ate: 7/ | 24/2023   | Ş  | SeqNo: 3         | 584039    | Units: <b>mg/K</b> | g          |          |      |
| Analyte                                 |                       | Result     | PQL     | SPK value | SPK Ref Val                                  | %REC             | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Gasoline Rang                           | e Organics (GRO)      | 21         | 4.8     | 24.04     | 0  | 87.0             | 70        | 130                | 2.62       | 20       |      |
| 0 |                       |            |         |           |  |                  |           |                    | -          |          |      |

#### Qualifiers:

Surr: BFB

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.

1800

961.5

B Analyte detected in the associated Method Blank

190

15

244

0

0

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2307983

31-Jul-23

WO#:

Devon Energy

Laguna Salado Fed 4

**Client:** 

**Project:** 

Client ID:

Sample ID: LCS-76381

LCSS

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Batch ID: 76381

| Prep Date: 7/21/2023   | Analysis I  | Date: 7/2  | 24/2023  | S   | SeqNo: 3  | 583856  | Units: mg/K  | (g   |                            |      |
|--|---|--|--|---|---|---|--|--|----------------------------|------|
| Analyte  | Result  | PQL  | SPK value  | SPK Ref Val   | %REC  | LowLimit  | HighLimit  | %RPD   | RPDLimit                   | Qual |
| Benzene  | 1.1   | 0.025  | 1.000  | 0   | 114   | 70  | 130  |  |                            |      |
| Toluene  | 1.1   | 0.050  | 1.000  | 0   | 115   | 70  | 130  |  |                            |      |
| Ethylbenzene   | 1.2   | 0.050  | 1.000  | 0   | 117   | 70  | 130  |  |                            |      |
| Xylenes, Total   | 3.5   | 0.10   | 3.000  | 0   | 118   | 70  | 130  |  |                            |      |
| Surr: 4-Bromofluorobenzene   | 1.2   |  | 1.000  |   | 120   | 39.1  | 146  |  |                            |      |
| Sample ID: mb-76381  | Samp  | Туре: МЕ   | BLK  | Tes   | tCode: Ef   | PA Method   | 8021B: Volati  | iles   |                            |      |
| Client ID: PBS   | Batc  | h ID: 763  | 381  | F   | RunNo: <b>9</b> 8   | 8452  |  |  |                            |      |
| Prep Date: 7/21/2023   | Analysis [  | Date: 7/2  | 24/2023  | S   | SeqNo: 3  | 583857  | Units: <b>mg/K</b>   | (g   |                            |      |
| Analyte  | Result  | PQL  | SPK value  | SPK Ref Val   | %REC  | LowLimit  | HighLimit  | %RPD   | RPDLimit                   | Qual |
| Benzene  | ND  | 0.025  |  |   |   |   |  |  |                            |      |
| Toluene  | ND  | 0.050  |  |   |   |   |  |  |                            |      |
| Ethylbenzene   | ND  | 0.050  |  |   |   |   |  |  |                            |      |
| Xylenes, Total   | ND  | 0.10   |  |   |   |   |  |  |                            |      |
| Surr: 4-Bromofluorobenzene   | 1.2   |  | 1.000  |   | 119   | 39.1  | 146  |  |                            |      |
| Sample ID: 2307983-002ams  | Samp  | SampType: MS TestCode: EPA Method 8021B: Volatiles   |  |   |   |   |  |  |                            |      |
|  |   | 71   |  |   |   |   |  |  |                            |      |
| Client ID: BG23-01 2.0'  | •   | h ID: 763  | 381  | F   | RunNo: <b>9</b>   | 8452  |  |  |                            |      |
|  | •   | h ID: 76:  |  |   | RunNo: <b>9</b> 8<br>SeqNo: <b>3</b> 8  |   | Units: <b>mg/K</b>   |  |                            |      |
| Client ID: BG23-01 2.0'  | Batc  | h ID: 76:  |  |   | _   |   | Units: <b>mg/K</b><br>HighLimit  |  | RPDLimit                   | Qual |
| Client ID: <b>BG23-01 2.0'</b><br>Prep Date: <b>7/21/2023</b>  | Batc<br>Analysis I  | h ID: <b>76:</b><br>Date: <b>7/</b> :  | 24/2023  | S   | SeqNo: 3  | 584057  | Ū.   | ſġ   | RPDLimit                   | Qual |
| Client ID: <b>BG23-01 2.0'</b><br>Prep Date: <b>7/21/2023</b><br>Analyte   | Batc<br>Analysis I<br>Result  | h ID: <b>76:</b><br>Date: <b>7/</b> 2<br>PQL   | 24/2023<br>SPK value   | SPK Ref Val   | SeqNo: 3  | 584057<br>LowLimit  | HighLimit  | ſġ   | RPDLimit                   | Qual |
| Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene  | Batc<br>Analysis I<br>Result<br>1.0   | h ID: <b>76:</b><br>Date: <b>7/</b> 2<br>PQL<br>0.025  | 24/2023<br>SPK value<br>0.9950   | SPK Ref Val   | SeqNo: 3<br>%REC<br>105   | 584057<br>LowLimit<br>70  | HighLimit<br>130   | ſġ   | RPDLimit                   | Qual |
| Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene   | Batc<br>Analysis I<br>Result<br>1.0<br>1.1  | h ID: 763<br>Date: 7/2<br>PQL<br>0.025<br>0.050  | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>0.9950<br>2.985  | SPK Ref Val<br>0<br>0   | SeqNo: 38<br>%REC<br>105<br>108   | 584057<br>LowLimit<br>70<br>70  | HighLimit<br>130<br>130  | ſġ   | RPDLimit                   | Qual |
| Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene   | Batc<br>Analysis I<br>Result<br>1.0<br>1.1<br>1.1   | h ID: 763<br>Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050   | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>0.9950   | SPK Ref Val<br>0<br>0<br>0  | SeqNo: 38<br>%REC<br>105<br>108<br>110  | 584057<br>LowLimit<br>70<br>70<br>70<br>70  | HighLimit<br>130<br>130<br>130   | ſġ   | RPDLimit                   | Qual |
| Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total   | Batc<br>Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2   | h ID: 763<br>Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050   | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>0.9950<br>2.985<br>0.9950  | SPK Ref Val<br>0<br>0<br>0<br>0   | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119   | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1  | HighLimit<br>130<br>130<br>130<br>130  | <b>g</b><br>%RPD   | RPDLimit                   | Qual |
| Client ID: <b>BG23-01 2.0'</b><br>Prep Date: <b>7/21/2023</b><br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene   | Batc<br>Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp   | h ID: 76:<br>Date: 7/:<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10   | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>SD  | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes   | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119   | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1  | HighLimit<br>130<br>130<br>130<br>130<br>130<br>146  | <b>g</b><br>%RPD   | RPDLimit                   | Qual |
| Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd   | Batc<br>Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp   | h ID: <b>76</b> ;<br>Date: <b>7</b> /;<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: <b>MS</b><br>h ID: <b>76</b> ;                 | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>381   | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F  | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: EF  | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1<br>PA Method<br>8452   | HighLimit<br>130<br>130<br>130<br>130<br>130<br>146  | Sg<br>%RPD   | RPDLimit                   | Qual |
| Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd<br>Client ID: BG23-01 2.0'  | Batc<br>Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp<br>Batc                                       | h ID: <b>76</b> ;<br>Date: <b>7</b> /;<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: <b>MS</b><br>h ID: <b>76</b> ;                 | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>381<br>24/2023<br>SPK value                               | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F  | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: Ef<br>RunNo: 9<br>SeqNo: 3<br>%REC                      | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1<br>PA Method<br>8452   | HighLimit<br>130<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati   | Sg<br>%RPD   | RPDLimit                   | Qual |
| Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd<br>Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023                                  | Batc<br>Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp<br>Batc<br>Analysis I                         | h ID: 76:<br>Date: 7/:<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: MS<br>h ID: 76:<br>Date: 7/:                                   | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>381<br>24/2023  | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F  | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: Ef<br>RunNo: 9<br>SeqNo: 3                              | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1<br>PA Method<br>8452<br>584058                                     | HighLimit<br>130<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati   | Sg<br>%RPD<br>iles                                       |                            |      |
| Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd<br>Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte                       | Batc<br>Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp<br>Batc<br>Analysis I<br>Result               | h ID: 76:<br>Date: 7/:<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: MS<br>h ID: 76:<br>Date: 7/:<br>PQL                            | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>381<br>24/2023<br>SPK value                               | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F<br>SPK Ref Val                               | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: Ef<br>RunNo: 9<br>SeqNo: 3<br>%REC                      | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1<br>PA Method<br>8452<br>584058<br>LowLimit                         | HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati<br>Units: mg/K<br>HighLimit  | Sg<br>%RPD<br>iles<br>Sg<br>%RPD                         | RPDLimit                   |      |
| Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd<br>Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene            | Batc<br>Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp<br>Batc<br>Analysis I<br>Result<br>1.0        | h ID: 76:<br>Date: 7/:<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: MS<br>h ID: 76:<br>Date: 7/:<br>PQL<br>0.025<br>0.050<br>0.050 | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>381<br>24/2023<br>SPK value<br>0.9930<br>0.9930<br>0.9930 | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>0<br>Tes<br>5<br>F<br>SPK Ref Val<br>0<br>0<br>0<br>0 | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: EF<br>RunNo: 9<br>SeqNo: 3<br>%REC<br>101<br>102<br>103 | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1<br>PA Method<br>8452<br>584058<br>LowLimit<br>70<br>70<br>70<br>70 | HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati<br>8021B: Volati<br>Units: mg/K<br>HighLimit<br>130<br>130<br>130<br>130 | 2g<br>%RPD<br>iles<br>2g<br>%RPD<br>3.57<br>5.27<br>6.15 | RPDLimit<br>20<br>20<br>20 |      |
| Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd<br>Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene | Batc<br>Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp<br>Batc<br>Analysis I<br>Result<br>1.0<br>1.0 | h ID: 76:<br>Date: 7/:<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: MS<br>h ID: 76:<br>Date: 7/:<br>PQL<br>0.025<br>0.050          | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>381<br>24/2023<br>SPK value<br>0.9930<br>0.9930<br>0.9930 | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F<br>SPK Ref Val<br>0<br>0                     | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: EF<br>RunNo: 9<br>SeqNo: 3<br>%REC<br>101<br>102        | 584057<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>8452<br>584058<br>LowLimit<br>70<br>70<br>70             | HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati<br>Units: mg/K<br>HighLimit<br>130<br>130<br>130                         | 5g<br>%RPD<br>iles<br>5g<br>%RPD<br>3.57<br>5.27         | RPDLimit<br>20<br>20       |      |

TestCode: EPA Method 8021B: Volatiles

RunNo: 98452

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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#### WO#: 2307983 31-Jul-23

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY   | Hall Environmental<br>Albi<br>TEL: 505-345-3975<br>Website: www.ha | 4901 Hawkin<br>Iquerque, NM 8<br>FAX: 505-345- | ns NE<br>27109 Sam<br>4107         | nple Log-In Check List                                 |
|---|--|--|------------------------------------|--|
| Client Name: Devon Energy   | Work Order Number:   | 2307983  |                                    | RcptNo: 1  |
| Received By: Juan Rojas   | 7/21/2023 7:50:00 AM   |  | (Juan B. g)                        |  |
| Completed By: Tracy Casarrubias<br>Reviewed By: $\neg n 7/2 (/2)$                       | 7/21/2023 8:15:29 AM   |  |                                    |  |
| Chain of Custody  |  |  |                                    |  |
| 1. Is Chain of Custody complete?  |  | Yes 🗌  | No 🔽                               | Not Present  |
| 2. How was the sample delivered?  |  | <u>Courier</u>                                 |                                    |  |
| Log In<br>3. Was an attempt made to cool the sam  | ples?  | Yes 🗹  | No 🗌                               | NA 🗌   |
| 4. Were all samples received at a tempe   | rature of >0° C to 6.0°C   | Yes 🗹  | No 🗌                               |  |
| 5. Sample(s) in proper container(s)?  |  | Yes 🗹  | No 🗌                               |  |
| 6. Sufficient sample volume for indicated   | test(s)?   | Yes 🗹  | No 🗌                               |  |
| 7. Are samples (except VOA and ONG) p   | properly preserved?  | Yes 🗹  | No 🗌                               |  |
| 8. Was preservative added to bottles?   |  | Yes 🗌  | No 🗹                               | NA 🗔   |
| 9. Received at least 1 vial with headspac   | e <1/4" for AQ VOA?  | Yes 🗌  | No 🗌                               | NA 🗹   |
| 10. Were any sample containers received   | broken?  | Yes 🗌  | No 🗹                               | # of preserved   |
| 11. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custor       | dy)  | Yes 🗹  | No 🗌                               | bottles checked<br>for pH:<br>(<2 or >12 unless noted) |
| 12. Are matrices correctly identified on Ch   | ain of Custody?  | Yes 🗹  | No 🗌                               | Adjusted?  |
| 13. Is it clear what analyses were requested  | ed?  | Yes 🗹  | No 🗌                               | 15m 07/21/2  |
| 14. Were all holding times able to be met?<br>(If no, notify customer for authorization |  | Yes 🗹  | No 🗌                               | Checked by SCM 07217                                   |
| Special Handling (if applicable)  |  |  |                                    | /  |
| 15. Was client notified of all discrepancies  | s with this order?   | Yes 🗌  | No 🗌                               | NA 🗹   |
| Person Notified:  | Date:  |  | and the dataset of the last second |  |
| By Whom:  | Via:   | eMail  | Phone 📋 Fax                        | In Person  |
| Regarding:  |  |  |                                    |  |
| Client Instructions: Mailing add  | lress, phone number and Email                                      | /Fax are miss                                  | ing on COC - T                     | MC 7/21/23   |
| 16. Additional remarks:   |  |  |                                    |  |
| 17. <u>Cooler Information</u><br>Cooler No Temp ⁰C Conditio<br>1 0.7 Good               | n Seal Intact Seal No S<br>Yes Yogi                                | seal Date                                      | Signed By                          |  |

Released to Imaging: 4/17/2025 1:37:41 PM

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| C              |                  | .030             | Cool - Door               | 2              | Turn-Around <sup>7</sup>   | Time:                |  |               |          |           |                   |                  |           |                                |            | 0                    |    |
|----------------|------------------|------------------|---------------------------|----------------|----------------------------|----------------------|--|---------------|----------|-----------|-------------------|------------------|-----------|--------------------------------|------------|----------------------|----|
| ן כ            | -ulain-          |                  | Chain-oi-custody record   | ora            | 5                          |                      | 4  |               |          | I         | HALL              |                  | N         | RO                             | MN         | <b>ENVIRONMENTAL</b> | L  |
| Client:        |                  | Deven            | 50                        |                | Z Standard                 | Z Rush               | 5 Daw  |               |          | A         | NAL               | YS.              | SI        | LAB                            | OR         | ANALYSIS LABORATORY  | RY |
|                | Direct           | J                | Bill                      |                | Project Name:              |                      | C/#1   |               |          | \$        | ww.ha             | llenvir          | onme      | www.hallenvironmental.com      | E          |                      |    |
| Mailing        | Mailing Address: |                  |                           |                | Lagua.                     | Salado 1             | 6  | 4             | 901 H    | awkin     | 4901 Hawkins NE - | - Albu           | duerc     | Albuquerque, NM 87109          | 18710      | IANH HILI            |    |
|                | 1                |                  |                           |                | Project #:                 | Project #:           |  |               | Tel. 50  | 5-345     | 505-345-3975      | Ë                | ax 50     | Fax 505-345-4107               | 4107       | Aller                |    |
| Phone #:       | #:               | 1                |                           |                | (7)                        | 11110-2              |  |               |          |           |                   | Analys           | is Re     | Analysis Request               |            |                      |    |
| email or Fax#: | r Fax#:          |                  |                           |                | Project Mana               | Project Manager:     |  |               |          |           | _                 | <sup>⊅</sup> OS  | -         | (jue                           | _          |                      |    |
| QAVQC          | QA/QC Package:   |                  |                           |                | Kent                       | - Stalling           | 2  |               |          |           | SWI               | S '≉O            |           | esdA                           |            |                      |    |
| Standard       | Idard            |                  | Level 4 (Full Validation) | alidation)     |                            |                      |  |               |          |           | 50/               | Ч ''             |           | дuə                            |            |                      | _  |
| Accreditation: | itation:         |                  | □ Az Compliance           | l              | Sampler:                   | 4                    | 2  |               |          |           | 7.8 ]             | ZON              |           |                                | - 1        |                      |    |
|                | AC               | D Other          |                           |                | On Ice:                    | D-Yes                | 0N   |               |          |           | -                 | ' <sup>ɛ</sup> ( |           |                                | _          | _                    |    |
|                | (Type)           |                  |                           |                | # of Coolers:              |                      | y09.   |               |          | -         |                   | _                |           |                                |            |                      |    |
|                |                  |                  |                           |                | Cooler Temp(including CF): |                      | 0.646.120.7 (°C)   |               |          |           | _                 |                  | _         | -                              |            |                      |    |
|                |                  |                  | Semolo Nomo               |                | Container                  | Preservative         | HEAL No.   | 08(Ha         | PI 1808  | N) 803    | a ehag<br>ARDS    | 3))L' E          | v) 0928   | 2) 0728<br>D leto <sup>-</sup> | ÷          |                      |    |
| 7_19.72        | 900 I            |                  | R/. 72-01                 | 04             |                            | 1 C.L.               | mi   | -             | _        | _         | -                 | _                |           | -                              | -          |                      |    |
|                |                  |                  | 220                       | )<br>)<br>)    |                            | )                    |  |               |          | +         | +                 | +                | +         |                                |            |                      | t  |
| _              | 1010             |                  | 0423-01                   | 2,0            |                            | -                    | 200  |               |          |           |                   | -                | +         |                                |            |                      |    |
|                | 1020             | -                | 8423-02                   | 0.0            |                            |                      | 003  |               |          |           |                   | _                |           |                                |            |                      |    |
|                | 020              |                  | BLa23-02                  | 2,0            |                            |                      | Day  |               |          |           |                   | _                |           |                                |            | 4                    |    |
|                | 0501             |                  | 8423-03                   | 0.0            |                            |                      | 005  |               |          |           |                   | _                |           |                                | 1          |                      |    |
|                | 1050             |                  | B423-03                   | 2,0            |                            |                      | 000  | _             |          |           | -                 | -                | _         |                                |            |                      |    |
|                | 0011             |                  | R/723-01                  | 0,0            | -                          |                      | 407  |               |          |           | _                 |                  |           |                                |            | i -                  |    |
|                | 0111             |                  | BV+23-01                  | 2,0'           |                            |                      | 000  |               |          | -         |                   |                  | -         |                                |            |                      |    |
|                | 1120             |                  | 81423-02                  | 0,0            | ~                          |                      | 009  |               |          |           |                   | -                |           |                                |            |                      |    |
|                | 1,130            |                  | 31423-02                  | 2.0            | >                          | >                    | 010  |               |          | _         |                   | 2                | -         |                                |            |                      |    |
|                |                  | P                |                           |                |                            |                      |  |               |          | 14        |                   |                  |           |                                |            |                      |    |
|                |                  |                  |                           |                |                            |                      |  |               |          | 5         |                   |                  |           |                                |            | 11.2                 |    |
| Date:          | Time:            | Relinquished by: | ed by:                    |                | Received by:               | Via:                 |  | Remarks:      | ks:      |           | Ke                | Kent             | Z         | - Stellings                    | 5          |                      |    |
|                |                  |                  |                           |                | WANNAN                     | . Var                |  |               | 7        | )         | 1                 | 1 1              |           | > ;                            | 7          |                      |    |
| Date:          | Time:            | Relinquished by: | ed by:                    | v              | Received by:               |                      | Date Time  |               |          |           | S                 | ta               | PUL       | NSTallings @ Ve                | A La       | 1.00                 |    |
| 60/00/         | 1900             | GALLAN.          | and the                   |                |                            | Town                 | er Hultz 350   |               |          |           | 2                 |                  |           |                                |            |                      |    |
| Released       | to Tmagi         | ing: 471 %       | 2025 1:37:41 Environment  | al may be subc | ontracted to other         | accredited laborator | Released to maging: 4/1/2025 1:3/1:4/ | t possibility | . Any si | ub-contra | acted dat         | a will be        | clearly n | otated on t                    | the analyt | ical report.         |    |

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 04, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX:

RE: Laguna Salado Fed 22 Federal 4

OrderNo.: 2307A39

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 18 sample(s) on 7/22/2023 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 03, 2023.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: Laguna Salado Fed 22 Federal 4

**Analytical Report** Lab Order 2307A39

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/4/2023 Client Sample ID: BH23-03 0.0' Collection Date: 7/20/2023 9:00:00 AM Pageived Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-001            | Matrix: SOIL | Reco     | eived Date: | 7/22/2 | 023 10:30:00 AM       |
|--------------------------------|--------------|----------|-------------|--------|-----------------------|
| Analyses                       | Result       | RL Qu    | al Units    | DF     | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RA  | NGE ORGANICS |          |             |        | Analyst: PRD          |
| Diesel Range Organics (DRO)    | ND           | 9.4      | mg/Kg       | 1      | 7/25/2023 4:28:50 PM  |
| Motor Oil Range Organics (MRO) | ND           | 47       | mg/Kg       | 1      | 7/25/2023 4:28:50 PM  |
| Surr: DNOP                     | 105          | 69-147   | %Rec        | 1      | 7/25/2023 4:28:50 PM  |
| EPA METHOD 8015D: GASOLINE RA  | ANGE         |          |             |        | Analyst: JJP          |
| Gasoline Range Organics (GRO)  | ND           | 4.9      | mg/Kg       | 1      | 7/25/2023 11:33:07 AM |
| Surr: BFB                      | 93.0         | 15-244   | %Rec        | 1      | 7/25/2023 11:33:07 AM |
| EPA METHOD 8021B: VOLATILES    |              |          |             |        | Analyst: JJP          |
| Benzene                        | ND           | 0.025    | mg/Kg       | 1      | 7/25/2023 11:33:07 AM |
| Toluene                        | ND           | 0.049    | mg/Kg       | 1      | 7/25/2023 11:33:07 AM |
| Ethylbenzene                   | ND           | 0.049    | mg/Kg       | 1      | 7/25/2023 11:33:07 AM |
| Xylenes, Total                 | ND           | 0.098    | mg/Kg       | 1      | 7/25/2023 11:33:07 AM |
| Surr: 4-Bromofluorobenzene     | 115          | 39.1-146 | %Rec        | 1      | 7/25/2023 11:33:07 AM |
| EPA METHOD 300.0: ANIONS       |              |          |             |        | Analyst: RBC          |
| Chloride                       | 29000        | 1500     | mg/Kg       | 500    | 7/27/2023 10:34:45 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range Reporting Limit
- RL

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Project: Laguna Salado Fed 22 Federal 4

**Analytical Report** Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-03 2.0' Collection Date: 7/20/2023 9:10:00 AM Pageived Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-002             | Matrix: SOIL | Rece     | eived Date: | 7/22/20 | 023 10:30:00 AM       |
|---------------------------------|--------------|----------|-------------|---------|-----------------------|
| Analyses                        | Result       | RL Qu    | al Units    | DF      | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS  |          |             |         | Analyst: PRD          |
| Diesel Range Organics (DRO)     | ND           | 9.4      | mg/Kg       | 1       | 7/25/2023 4:39:43 PM  |
| Motor Oil Range Organics (MRO)  | ND           | 47       | mg/Kg       | 1       | 7/25/2023 4:39:43 PM  |
| Surr: DNOP                      | 107          | 69-147   | %Rec        | 1       | 7/25/2023 4:39:43 PM  |
| EPA METHOD 8015D: GASOLINE RAM  | IGE          |          |             |         | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)   | ND           | 4.9      | mg/Kg       | 1       | 7/25/2023 12:43:42 PM |
| Surr: BFB                       | 95.7         | 15-244   | %Rec        | 1       | 7/25/2023 12:43:42 PM |
| EPA METHOD 8021B: VOLATILES     |              |          |             |         | Analyst: <b>JJP</b>   |
| Benzene                         | ND           | 0.025    | mg/Kg       | 1       | 7/25/2023 12:43:42 PM |
| Toluene                         | ND           | 0.049    | mg/Kg       | 1       | 7/25/2023 12:43:42 PM |
| Ethylbenzene                    | ND           | 0.049    | mg/Kg       | 1       | 7/25/2023 12:43:42 PM |
| Xylenes, Total                  | ND           | 0.099    | mg/Kg       | 1       | 7/25/2023 12:43:42 PM |
| Surr: 4-Bromofluorobenzene      | 118          | 39.1-146 | %Rec        | 1       | 7/25/2023 12:43:42 PM |
| EPA METHOD 300.0: ANIONS        |              |          |             |         | Analyst: RBC          |
| Chloride                        | 13000        | 600      | mg/Kg       | 200     | 7/27/2023 10:47:10 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado Fed 22 Federal 4

Analytical Report Lab Order 2307A39

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/4/2023 Client Sample ID: BH23-04 0.0' Collection Date: 7/20/2023 9:20:00 AM Perceived Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-003            | Matrix: SOIL | Reco     | eived Date: | 7/22/20 | 023 10:30:00 AM       |
|--------------------------------|--------------|----------|-------------|---------|-----------------------|
| Analyses                       | Result       | RL Qu    | al Units    | DF      | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RAM | IGE ORGANICS |          |             |         | Analyst: PRD          |
| Diesel Range Organics (DRO)    | ND           | 9.6      | mg/Kg       | 1       | 7/25/2023 4:50:37 PM  |
| Motor Oil Range Organics (MRO) | ND           | 48       | mg/Kg       | 1       | 7/25/2023 4:50:37 PM  |
| Surr: DNOP                     | 109          | 69-147   | %Rec        | 1       | 7/25/2023 4:50:37 PM  |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |          |             |         | Analyst: JJP          |
| Gasoline Range Organics (GRO)  | ND           | 4.7      | mg/Kg       | 1       | 7/25/2023 1:54:38 PM  |
| Surr: BFB                      | 98.8         | 15-244   | %Rec        | 1       | 7/25/2023 1:54:38 PM  |
| EPA METHOD 8021B: VOLATILES    |              |          |             |         | Analyst: JJP          |
| Benzene                        | ND           | 0.024    | mg/Kg       | 1       | 7/25/2023 1:54:38 PM  |
| Toluene                        | ND           | 0.047    | mg/Kg       | 1       | 7/25/2023 1:54:38 PM  |
| Ethylbenzene                   | ND           | 0.047    | mg/Kg       | 1       | 7/25/2023 1:54:38 PM  |
| Xylenes, Total                 | ND           | 0.095    | mg/Kg       | 1       | 7/25/2023 1:54:38 PM  |
| Surr: 4-Bromofluorobenzene     | 120          | 39.1-146 | %Rec        | 1       | 7/25/2023 1:54:38 PM  |
| EPA METHOD 300.0: ANIONS       |              |          |             |         | Analyst: RBC          |
| Chloride                       | 41000        | 1500     | mg/Kg       | 500     | 7/27/2023 10:59:35 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project:

**Analytical Report** Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

Client Sample ID: BH23-04 2.0' Collection Date: 7/20/2023 9:30:00 AM Received Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-004             | Matrix: SOIL | Rece     | eived Date: | 7/22/2 | 023 10:30:00 AM       |
|---------------------------------|--------------|----------|-------------|--------|-----------------------|
| Analyses                        | Result       | RL Qu    | al Units    | DF     | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |             |        | Analyst: PRD          |
| Diesel Range Organics (DRO)     | ND           | 9.6      | mg/Kg       | 1      | 7/25/2023 5:01:30 PM  |
| Motor Oil Range Organics (MRO)  | ND           | 48       | mg/Kg       | 1      | 7/25/2023 5:01:30 PM  |
| Surr: DNOP                      | 102          | 69-147   | %Rec        | 1      | 7/25/2023 5:01:30 PM  |
| EPA METHOD 8015D: GASOLINE RAN  | GE           |          |             |        | Analyst: JJP          |
| Gasoline Range Organics (GRO)   | ND           | 4.8      | mg/Kg       | 1      | 7/25/2023 2:18:23 PM  |
| Surr: BFB                       | 99.7         | 15-244   | %Rec        | 1      | 7/25/2023 2:18:23 PM  |
| EPA METHOD 8021B: VOLATILES     |              |          |             |        | Analyst: JJP          |
| Benzene                         | ND           | 0.024    | mg/Kg       | 1      | 7/25/2023 2:18:23 PM  |
| Toluene                         | ND           | 0.048    | mg/Kg       | 1      | 7/25/2023 2:18:23 PM  |
| Ethylbenzene                    | ND           | 0.048    | mg/Kg       | 1      | 7/25/2023 2:18:23 PM  |
| Xylenes, Total                  | ND           | 0.096    | mg/Kg       | 1      | 7/25/2023 2:18:23 PM  |
| Surr: 4-Bromofluorobenzene      | 122          | 39.1-146 | %Rec        | 1      | 7/25/2023 2:18:23 PM  |
| EPA METHOD 300.0: ANIONS        |              |          |             |        | Analyst: RBC          |
| Chloride                        | 4500         | 300      | mg/Kg       | 100    | 7/27/2023 11:12:00 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado Fed 22 Federal 4

**Analytical Report** Lab Order 2307A39

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/4/2023 Client Sample ID: BH23-04 4.0' Collection Date: 7/20/2023 9:40:00 AM Pageived Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-005            | Matrix: SOIL | Rece     | eived Date: | 7/22/2 | 2023 10:30:00 AM      |
|--------------------------------|--------------|----------|-------------|--------|-----------------------|
| Analyses                       | Result       | RL Qu    | al Units    | DF     | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RAN | IGE ORGANICS |          |             |        | Analyst: PRD          |
| Diesel Range Organics (DRO)    | ND           | 9.6      | mg/Kg       | 1      | 7/25/2023 5:12:27 PM  |
| Motor Oil Range Organics (MRO) | ND           | 48       | mg/Kg       | 1      | 7/25/2023 5:12:27 PM  |
| Surr: DNOP                     | 111          | 69-147   | %Rec        | 1      | 7/25/2023 5:12:27 PM  |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |          |             |        | Analyst: JJP          |
| Gasoline Range Organics (GRO)  | ND           | 4.7      | mg/Kg       | 1      | 7/25/2023 2:42:10 PM  |
| Surr: BFB                      | 96.3         | 15-244   | %Rec        | 1      | 7/25/2023 2:42:10 PM  |
| EPA METHOD 8021B: VOLATILES    |              |          |             |        | Analyst: JJP          |
| Benzene                        | ND           | 0.024    | mg/Kg       | 1      | 7/25/2023 2:42:10 PM  |
| Toluene                        | ND           | 0.047    | mg/Kg       | 1      | 7/25/2023 2:42:10 PM  |
| Ethylbenzene                   | ND           | 0.047    | mg/Kg       | 1      | 7/25/2023 2:42:10 PM  |
| Xylenes, Total                 | ND           | 0.095    | mg/Kg       | 1      | 7/25/2023 2:42:10 PM  |
| Surr: 4-Bromofluorobenzene     | 118          | 39.1-146 | %Rec        | 1      | 7/25/2023 2:42:10 PM  |
| EPA METHOD 300.0: ANIONS       |              |          |             |        | Analyst: RBC          |
| Chloride                       | 3300         | 150      | mg/Kg       | 50     | 7/27/2023 11:24:24 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
  - Reporting Limit

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Project: Laguna Salado Fed 22 Federal 4

Analytical Report Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-05 0.0' Collection Date: 7/20/2023 9:50:00 AM Received Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-006             | Matrix: SOIL | Rece     | eived Date: | 7/22/20 | 023 10:30:00 AM       |
|---------------------------------|--------------|----------|-------------|---------|-----------------------|
| Analyses                        | Result       | RL Qu    | al Units    | DF      | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |             |         | Analyst: PRD          |
| Diesel Range Organics (DRO)     | ND           | 9.9      | mg/Kg       | 1       | 7/25/2023 5:23:23 PM  |
| Motor Oil Range Organics (MRO)  | ND           | 49       | mg/Kg       | 1       | 7/25/2023 5:23:23 PM  |
| Surr: DNOP                      | 113          | 69-147   | %Rec        | 1       | 7/25/2023 5:23:23 PM  |
| EPA METHOD 8015D: GASOLINE RANG | GE           |          |             |         | Analyst: JJP          |
| Gasoline Range Organics (GRO)   | ND           | 4.7      | mg/Kg       | 1       | 7/25/2023 3:06:00 PM  |
| Surr: BFB                       | 97.9         | 15-244   | %Rec        | 1       | 7/25/2023 3:06:00 PM  |
| EPA METHOD 8021B: VOLATILES     |              |          |             |         | Analyst: <b>JJP</b>   |
| Benzene                         | ND           | 0.024    | mg/Kg       | 1       | 7/25/2023 3:06:00 PM  |
| Toluene                         | ND           | 0.047    | mg/Kg       | 1       | 7/25/2023 3:06:00 PM  |
| Ethylbenzene                    | ND           | 0.047    | mg/Kg       | 1       | 7/25/2023 3:06:00 PM  |
| Xylenes, Total                  | ND           | 0.095    | mg/Kg       | 1       | 7/25/2023 3:06:00 PM  |
| Surr: 4-Bromofluorobenzene      | 120          | 39.1-146 | %Rec        | 1       | 7/25/2023 3:06:00 PM  |
| EPA METHOD 300.0: ANIONS        |              |          |             |         | Analyst: RBC          |
| Chloride                        | 77000        | 3000     | mg/Kg       | 1000    | 7/27/2023 11:36:48 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project:

Analytical Report Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

Client Sample ID: BH23-05 2.0' Collection Date: 7/20/2023 10:00:00 AM Received Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-007             | Matrix: SOIL | Rece     | eived Date: | 7/22/2 | 2023 10:30:00 AM      |
|---------------------------------|--------------|----------|-------------|--------|-----------------------|
| Analyses                        | Result       | RL Qu    | al Units    | DF     | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |             |        | Analyst: PRD          |
| Diesel Range Organics (DRO)     | ND           | 9.4      | mg/Kg       | 1      | 7/25/2023 5:34:17 PM  |
| Motor Oil Range Organics (MRO)  | ND           | 47       | mg/Kg       | 1      | 7/25/2023 5:34:17 PM  |
| Surr: DNOP                      | 113          | 69-147   | %Rec        | 1      | 7/25/2023 5:34:17 PM  |
| EPA METHOD 8015D: GASOLINE RAN  | GE           |          |             |        | Analyst: JJP          |
| Gasoline Range Organics (GRO)   | ND           | 4.8      | mg/Kg       | 1      | 7/25/2023 3:29:48 PM  |
| Surr: BFB                       | 99.1         | 15-244   | %Rec        | 1      | 7/25/2023 3:29:48 PM  |
| EPA METHOD 8021B: VOLATILES     |              |          |             |        | Analyst: <b>JJP</b>   |
| Benzene                         | ND           | 0.024    | mg/Kg       | 1      | 7/25/2023 3:29:48 PM  |
| Toluene                         | ND           | 0.048    | mg/Kg       | 1      | 7/25/2023 3:29:48 PM  |
| Ethylbenzene                    | ND           | 0.048    | mg/Kg       | 1      | 7/25/2023 3:29:48 PM  |
| Xylenes, Total                  | ND           | 0.095    | mg/Kg       | 1      | 7/25/2023 3:29:48 PM  |
| Surr: 4-Bromofluorobenzene      | 122          | 39.1-146 | %Rec        | 1      | 7/25/2023 3:29:48 PM  |
| EPA METHOD 300.0: ANIONS        |              |          |             |        | Analyst: RBC          |
| Chloride                        | 3100         | 150      | mg/Kg       | 50     | 7/27/2023 11:49:13 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2307A39-008

**Project:** Lab ID: **Analytical Report** Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

Client Sample ID: BH23-05 4.0' Collection Date: 7/20/2023 10:10:00 AM Received Date: 7/22/2023 10:30:00 AM

| Analyses                           | Result | RL Qu    | al Units | DF           | Date Analyzed         |  |
|------------------------------------|--------|----------|----------|--------------|-----------------------|--|
| EPA METHOD 8015M/D: DIESEL RANGE O |        |          |          | Analyst: PRD |                       |  |
| Diesel Range Organics (DRO)        | ND     | 9.7      | mg/Kg    | 1            | 7/25/2023 5:56:20 PM  |  |
| Motor Oil Range Organics (MRO)     | ND     | 49       | mg/Kg    | 1            | 7/25/2023 5:56:20 PM  |  |
| Surr: DNOP                         | 116    | 69-147   | %Rec     | 1            | 7/25/2023 5:56:20 PM  |  |
| EPA METHOD 8015D: GASOLINE RANGE   |        |          |          |              | Analyst: JJP          |  |
| Gasoline Range Organics (GRO)      | ND     | 4.8      | mg/Kg    | 1            | 7/25/2023 3:53:42 PM  |  |
| Surr: BFB                          | 99.0   | 15-244   | %Rec     | 1            | 7/25/2023 3:53:42 PM  |  |
| EPA METHOD 8021B: VOLATILES        |        |          |          |              | Analyst: JJP          |  |
| Benzene                            | ND     | 0.024    | mg/Kg    | 1            | 7/25/2023 3:53:42 PM  |  |
| Toluene                            | ND     | 0.048    | mg/Kg    | 1            | 7/25/2023 3:53:42 PM  |  |
| Ethylbenzene                       | ND     | 0.048    | mg/Kg    | 1            | 7/25/2023 3:53:42 PM  |  |
| Xylenes, Total                     | ND     | 0.095    | mg/Kg    | 1            | 7/25/2023 3:53:42 PM  |  |
| Surr: 4-Bromofluorobenzene         | 122    | 39.1-146 | %Rec     | 1            | 7/25/2023 3:53:42 PM  |  |
| EPA METHOD 300.0: ANIONS           |        |          |          |              | Analyst: RBC          |  |
| Chloride                           | 2500   | 150      | mg/Kg    | 50           | 7/27/2023 12:01:38 PM |  |
|                                    |        |          |          |              |                       |  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**Project:** 

Analytical Report Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

Client Sample ID: BH23-06 0.0' Collection Date: 7/20/2023 10:20:00 AM Received Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-009              | Matrix: SOIL | Received Date: 7/22/2023 10:30:00 AM |          |              |                       |  |
|----------------------------------|--------------|--------------------------------------|----------|--------------|-----------------------|--|
| Analyses                         | Result       | RL Qu                                | al Units | DF           | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANGE |              |                                      |          | Analyst: PRD |                       |  |
| Diesel Range Organics (DRO)      | ND           | 9.5                                  | mg/Kg    | 1            | 7/25/2023 6:07:35 PM  |  |
| Motor Oil Range Organics (MRO)   | ND           | 47                                   | mg/Kg    | 1            | 7/25/2023 6:07:35 PM  |  |
| Surr: DNOP                       | 97.2         | 69-147                               | %Rec     | 1            | 7/25/2023 6:07:35 PM  |  |
| EPA METHOD 8015D: GASOLINE RANGI | E            |                                      |          |              | Analyst: JJP          |  |
| Gasoline Range Organics (GRO)    | ND           | 4.7                                  | mg/Kg    | 1            | 7/25/2023 4:17:32 PM  |  |
| Surr: BFB                        | 100          | 15-244                               | %Rec     | 1            | 7/25/2023 4:17:32 PM  |  |
| EPA METHOD 8021B: VOLATILES      |              |                                      |          |              | Analyst: JJP          |  |
| Benzene                          | ND           | 0.023                                | mg/Kg    | 1            | 7/25/2023 4:17:32 PM  |  |
| Toluene                          | ND           | 0.047                                | mg/Kg    | 1            | 7/25/2023 4:17:32 PM  |  |
| Ethylbenzene                     | ND           | 0.047                                | mg/Kg    | 1            | 7/25/2023 4:17:32 PM  |  |
| Xylenes, Total                   | ND           | 0.094                                | mg/Kg    | 1            | 7/25/2023 4:17:32 PM  |  |
| Surr: 4-Bromofluorobenzene       | 123          | 39.1-146                             | %Rec     | 1            | 7/25/2023 4:17:32 PM  |  |
| EPA METHOD 300.0: ANIONS         |              |                                      |          |              | Analyst: RBC          |  |
| Chloride                         | 21000        | 1200                                 | mg/Kg    | 400          | 7/27/2023 12:14:03 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2307A39-010

**Project:** Lab ID: **Analytical Report** Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

Client Sample ID: BH23-06 2.0' Collection Date: 7/20/2023 10:30:00 AM Received Date: 7/22/2023 10:30:00 AM

| Analyses                            | Result | RL Qu    | ual Units | DF  | Date Analyzed         |
|-------------------------------------|--------|----------|-----------|-----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |           |     | Analyst: PRD          |
| Diesel Range Organics (DRO)         | ND     | 9.5      | mg/Kg     | 1   | 7/25/2023 6:18:40 PM  |
| Motor Oil Range Organics (MRO)      | ND     | 48       | mg/Kg     | 1   | 7/25/2023 6:18:40 PM  |
| Surr: DNOP                          | 98.9   | 69-147   | %Rec      | 1   | 7/25/2023 6:18:40 PM  |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |           |     | Analyst: JJP          |
| Gasoline Range Organics (GRO)       | ND     | 4.8      | mg/Kg     | 1   | 7/25/2023 4:41:22 PM  |
| Surr: BFB                           | 101    | 15-244   | %Rec      | 1   | 7/25/2023 4:41:22 PM  |
| EPA METHOD 8021B: VOLATILES         |        |          |           |     | Analyst: JJP          |
| Benzene                             | ND     | 0.024    | mg/Kg     | 1   | 7/25/2023 4:41:22 PM  |
| Toluene                             | ND     | 0.048    | mg/Kg     | 1   | 7/25/2023 4:41:22 PM  |
| Ethylbenzene                        | ND     | 0.048    | mg/Kg     | 1   | 7/25/2023 4:41:22 PM  |
| Xylenes, Total                      | ND     | 0.096    | mg/Kg     | 1   | 7/25/2023 4:41:22 PM  |
| Surr: 4-Bromofluorobenzene          | 123    | 39.1-146 | %Rec      | 1   | 7/25/2023 4:41:22 PM  |
| EPA METHOD 300.0: ANIONS            |        |          |           |     | Analyst: RBC          |
| Chloride                            | 4400   | 300      | mg/Kg     | 100 | 7/27/2023 12:51:16 PM |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
  - Reporting Limit

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Project: Laguna Salado Fed 22 Federal 4

**Analytical Report** Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-06 4.0' Collection Date: 7/20/2023 10:40:00 AM Pageived Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-011             | Matrix: SOIL | Received Date: 7/22/2023 10:30:00 AM |                      |    |                      |  |
|---------------------------------|--------------|--------------------------------------|----------------------|----|----------------------|--|
| Analyses                        | Result       | RL Qu                                | <b>RL</b> Qual Units |    | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |                                      |                      |    | Analyst: PRD         |  |
| Diesel Range Organics (DRO)     | ND           | 9.0                                  | mg/Kg                | 1  | 7/25/2023 6:29:48 PM |  |
| Motor Oil Range Organics (MRO)  | ND           | 45                                   | mg/Kg                | 1  | 7/25/2023 6:29:48 PM |  |
| Surr: DNOP                      | 90.6         | 69-147                               | %Rec                 | 1  | 7/25/2023 6:29:48 PM |  |
| EPA METHOD 8015D: GASOLINE RANG | E            |                                      |                      |    | Analyst: JJP         |  |
| Gasoline Range Organics (GRO)   | ND           | 4.7                                  | mg/Kg                | 1  | 7/25/2023 5:29:04 PM |  |
| Surr: BFB                       | 99.9         | 15-244                               | %Rec                 | 1  | 7/25/2023 5:29:04 PM |  |
| EPA METHOD 8021B: VOLATILES     |              |                                      |                      |    | Analyst: JJP         |  |
| Benzene                         | ND           | 0.024                                | mg/Kg                | 1  | 7/25/2023 5:29:04 PM |  |
| Toluene                         | ND           | 0.047                                | mg/Kg                | 1  | 7/25/2023 5:29:04 PM |  |
| Ethylbenzene                    | ND           | 0.047                                | mg/Kg                | 1  | 7/25/2023 5:29:04 PM |  |
| Xylenes, Total                  | ND           | 0.095                                | mg/Kg                | 1  | 7/25/2023 5:29:04 PM |  |
| Surr: 4-Bromofluorobenzene      | 122          | 39.1-146                             | %Rec                 | 1  | 7/25/2023 5:29:04 PM |  |
| EPA METHOD 300.0: ANIONS        |              |                                      |                      |    | Analyst: RBC         |  |
| Chloride                        | 4500         | 150                                  | mg/Kg                | 50 | 7/27/2023 1:03:41 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
  - Reporting Limit

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Project:

Analytical Report Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

Client Sample ID: BH23-07 0.0' Collection Date: 7/20/2023 10:50:00 AM Received Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-012            | Matrix: SOIL | Received Date: 7/22/2023 10:30:00 AM |                  |     |                      |  |
|--------------------------------|--------------|--------------------------------------|------------------|-----|----------------------|--|
| Analyses                       | Result       | RL Qu                                | RL Qual Units DI |     | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RAN | IGE ORGANICS |                                      |                  |     | Analyst: PRD         |  |
| Diesel Range Organics (DRO)    | ND           | 9.8                                  | mg/Kg            | 1   | 7/25/2023 6:40:50 PM |  |
| Motor Oil Range Organics (MRO) | ND           | 49                                   | mg/Kg            | 1   | 7/25/2023 6:40:50 PM |  |
| Surr: DNOP                     | 96.3         | 69-147                               | %Rec             | 1   | 7/25/2023 6:40:50 PM |  |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |                                      |                  |     | Analyst: JJP         |  |
| Gasoline Range Organics (GRO)  | ND           | 4.8                                  | mg/Kg            | 1   | 7/25/2023 5:52:46 PM |  |
| Surr: BFB                      | 98.4         | 15-244                               | %Rec             | 1   | 7/25/2023 5:52:46 PM |  |
| EPA METHOD 8021B: VOLATILES    |              |                                      |                  |     | Analyst: JJP         |  |
| Benzene                        | ND           | 0.024                                | mg/Kg            | 1   | 7/25/2023 5:52:46 PM |  |
| Toluene                        | ND           | 0.048                                | mg/Kg            | 1   | 7/25/2023 5:52:46 PM |  |
| Ethylbenzene                   | ND           | 0.048                                | mg/Kg            | 1   | 7/25/2023 5:52:46 PM |  |
| Xylenes, Total                 | ND           | 0.097                                | mg/Kg            | 1   | 7/25/2023 5:52:46 PM |  |
| Surr: 4-Bromofluorobenzene     | 120          | 39.1-146                             | %Rec             | 1   | 7/25/2023 5:52:46 PM |  |
| EPA METHOD 300.0: ANIONS       |              |                                      |                  |     | Analyst: RBC         |  |
| Chloride                       | 27000        | 1200                                 | mg/Kg            | 400 | 7/27/2023 1:16:06 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Project:** 

**Analytical Report** Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

Client Sample ID: BH23-07 2.0' Collection Date: 7/20/2023 11:00:00 AM Received Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-013              | Matrix: SOIL           | Received Date: 7/22/2023 10:30:00 AM |       |               |                      |  |
|----------------------------------|------------------------|--------------------------------------|-------|---------------|----------------------|--|
| Analyses                         | Result RL Qual Units D |                                      | DF    | Date Analyzed |                      |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS               |                                      |       |               | Analyst: PRD         |  |
| Diesel Range Organics (DRO)      | ND                     | 9.5                                  | mg/Kg | 1             | 7/25/2023 6:51:54 PM |  |
| Motor Oil Range Organics (MRO)   | ND                     | 48                                   | mg/Kg | 1             | 7/25/2023 6:51:54 PM |  |
| Surr: DNOP                       | 97.0                   | 69-147                               | %Rec  | 1             | 7/25/2023 6:51:54 PM |  |
| EPA METHOD 8015D: GASOLINE RANG  | E                      |                                      |       |               | Analyst: <b>JJP</b>  |  |
| Gasoline Range Organics (GRO)    | ND                     | 4.7                                  | mg/Kg | 1             | 7/25/2023 6:16:36 PM |  |
| Surr: BFB                        | 99.5                   | 15-244                               | %Rec  | 1             | 7/25/2023 6:16:36 PM |  |
| EPA METHOD 8021B: VOLATILES      |                        |                                      |       |               | Analyst: JJP         |  |
| Benzene                          | ND                     | 0.024                                | mg/Kg | 1             | 7/25/2023 6:16:36 PM |  |
| Toluene                          | ND                     | 0.047                                | mg/Kg | 1             | 7/25/2023 6:16:36 PM |  |
| Ethylbenzene                     | ND                     | 0.047                                | mg/Kg | 1             | 7/25/2023 6:16:36 PM |  |
| Xylenes, Total                   | ND                     | 0.094                                | mg/Kg | 1             | 7/25/2023 6:16:36 PM |  |
| Surr: 4-Bromofluorobenzene       | 123                    | 39.1-146                             | %Rec  | 1             | 7/25/2023 6:16:36 PM |  |
| EPA METHOD 300.0: ANIONS         |                        |                                      |       |               | Analyst: RBC         |  |
| Chloride                         | 3400                   | 150                                  | mg/Kg | 50            | 7/27/2023 1:28:31 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
  - Reporting Limit

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**Project:** 

Analytical Report Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

Client Sample ID: BH23-08 0.0' Collection Date: 7/20/2023 11:10:00 AM Received Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-014              | Matrix: SOIL | Received Date: 7/22/2023 10:30:00 AM |          |      |                      |  |
|----------------------------------|--------------|--------------------------------------|----------|------|----------------------|--|
| Analyses                         | Result       | RL Qua                               | al Units | DF   | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                      |          |      | Analyst: PRD         |  |
| Diesel Range Organics (DRO)      | ND           | 9.9                                  | mg/Kg    | 1    | 7/25/2023 7:02:57 PM |  |
| Motor Oil Range Organics (MRO)   | ND           | 50                                   | mg/Kg    | 1    | 7/25/2023 7:02:57 PM |  |
| Surr: DNOP                       | 102          | 69-147                               | %Rec     | 1    | 7/25/2023 7:02:57 PM |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                      |          |      | Analyst: JJP         |  |
| Gasoline Range Organics (GRO)    | ND           | 4.7                                  | mg/Kg    | 1    | 7/25/2023 6:40:23 PM |  |
| Surr: BFB                        | 98.7         | 15-244                               | %Rec     | 1    | 7/25/2023 6:40:23 PM |  |
| EPA METHOD 8021B: VOLATILES      |              |                                      |          |      | Analyst: JJP         |  |
| Benzene                          | ND           | 0.024                                | mg/Kg    | 1    | 7/25/2023 6:40:23 PM |  |
| Toluene                          | ND           | 0.047                                | mg/Kg    | 1    | 7/25/2023 6:40:23 PM |  |
| Ethylbenzene                     | ND           | 0.047                                | mg/Kg    | 1    | 7/25/2023 6:40:23 PM |  |
| Xylenes, Total                   | ND           | 0.095                                | mg/Kg    | 1    | 7/25/2023 6:40:23 PM |  |
| Surr: 4-Bromofluorobenzene       | 122          | 39.1-146                             | %Rec     | 1    | 7/25/2023 6:40:23 PM |  |
| EPA METHOD 300.0: ANIONS         |              |                                      |          |      | Analyst: RBC         |  |
| Chloride                         | 42000        | 3000                                 | mg/Kg    | 1000 | 7/27/2023 1:40:55 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2307A39-015

**Project:** Lab ID: **Analytical Report** Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

Client Sample ID: BH23-08 2.0' Collection Date: 7/20/2023 11:20:00 AM Received Date: 7/22/2023 10:30:00 AM

| Analyses                                  | Result | RL Qu    | al Units | DF  | Date Analyzed        |  |
|---|--------|----------|----------|-----|----------------------|--|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS |        |          |          |     | Analyst: PRD         |  |
| Diesel Range Organics (DRO)               | ND     | 9.5      | mg/Kg    | 1   | 7/25/2023 7:13:56 PM |  |
| Motor Oil Range Organics (MRO)            | ND     | 47       | mg/Kg    | 1   | 7/25/2023 7:13:56 PM |  |
| Surr: DNOP                                | 101    | 69-147   | %Rec     | 1   | 7/25/2023 7:13:56 PM |  |
| EPA METHOD 8015D: GASOLINE RANGE          |        |          |          |     | Analyst: JJP         |  |
| Gasoline Range Organics (GRO)             | ND     | 4.9      | mg/Kg    | 1   | 7/25/2023 7:04:01 PM |  |
| Surr: BFB                                 | 95.4   | 15-244   | %Rec     | 1   | 7/25/2023 7:04:01 PM |  |
| EPA METHOD 8021B: VOLATILES               |        |          |          |     | Analyst: JJP         |  |
| Benzene                                   | ND     | 0.024    | mg/Kg    | 1   | 7/25/2023 7:04:01 PM |  |
| Toluene                                   | ND     | 0.049    | mg/Kg    | 1   | 7/25/2023 7:04:01 PM |  |
| Ethylbenzene                              | ND     | 0.049    | mg/Kg    | 1   | 7/25/2023 7:04:01 PM |  |
| Xylenes, Total                            | ND     | 0.097    | mg/Kg    | 1   | 7/25/2023 7:04:01 PM |  |
| Surr: 4-Bromofluorobenzene                | 118    | 39.1-146 | %Rec     | 1   | 7/25/2023 7:04:01 PM |  |
| EPA METHOD 300.0: ANIONS                  |        |          |          |     | Analyst: JTT         |  |
| Chloride                                  | 5500   | 300      | mg/Kg    | 100 | 7/28/2023 9:55:41 AM |  |
|   |        |          |          |     |                      |  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
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Project: Laguna Salado Fed 22 Federal 4

**Analytical Report** Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-09 0.0' Collection Date: 7/20/2023 11:30:00 AM Received Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-016             | Matrix: SOIL | Received Date: 7/22/2023 10:30:00 AM |       |     |                       |  |
|---------------------------------|--------------|--------------------------------------|-------|-----|-----------------------|--|
| Analyses                        | Result       | RL Qual Units                        |       | DF  | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS  |                                      |       |     | Analyst: PRD          |  |
| Diesel Range Organics (DRO)     | ND           | 8.9                                  | mg/Kg | 1   | 7/25/2023 7:24:51 PM  |  |
| Motor Oil Range Organics (MRO)  | ND           | 45                                   | mg/Kg | 1   | 7/25/2023 7:24:51 PM  |  |
| Surr: DNOP                      | 104          | 69-147                               | %Rec  | 1   | 7/25/2023 7:24:51 PM  |  |
| EPA METHOD 8015D: GASOLINE RAN  | GE           |                                      |       |     | Analyst: JJP          |  |
| Gasoline Range Organics (GRO)   | ND           | 4.7                                  | mg/Kg | 1   | 7/25/2023 7:27:40 PM  |  |
| Surr: BFB                       | 97.9         | 15-244                               | %Rec  | 1   | 7/25/2023 7:27:40 PM  |  |
| EPA METHOD 8021B: VOLATILES     |              |                                      |       |     | Analyst: JJP          |  |
| Benzene                         | ND           | 0.024                                | mg/Kg | 1   | 7/25/2023 7:27:40 PM  |  |
| Toluene                         | ND           | 0.047                                | mg/Kg | 1   | 7/25/2023 7:27:40 PM  |  |
| Ethylbenzene                    | ND           | 0.047                                | mg/Kg | 1   | 7/25/2023 7:27:40 PM  |  |
| Xylenes, Total                  | ND           | 0.095                                | mg/Kg | 1   | 7/25/2023 7:27:40 PM  |  |
| Surr: 4-Bromofluorobenzene      | 121          | 39.1-146                             | %Rec  | 1   | 7/25/2023 7:27:40 PM  |  |
| EPA METHOD 300.0: ANIONS        |              |                                      |       |     | Analyst: JTT          |  |
| Chloride                        | 25000        | 1200                                 | mg/Kg | 400 | 7/28/2023 10:08:05 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
- Reporting Limit

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Project: Laguna Salado Fed 22 Federal 4

**Analytical Report** Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-09 2.0' Collection Date: 7/20/2023 11:40:00 AM Received Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-017             | Matrix: SOIL | <b>Received Date:</b> 7/22/2023 10:30:00 AM |          |     |                       |  |
|---------------------------------|--------------|---|----------|-----|-----------------------|--|
| Analyses                        | Result       | RL Qu                                       | al Units | DF  | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS  |   |          |     | Analyst: PRD          |  |
| Diesel Range Organics (DRO)     | ND           | 9.8   | mg/Kg    | 1   | 7/25/2023 7:57:42 PM  |  |
| Motor Oil Range Organics (MRO)  | ND           | 49  | mg/Kg    | 1   | 7/25/2023 7:57:42 PM  |  |
| Surr: DNOP                      | 102          | 69-147                                      | %Rec     | 1   | 7/25/2023 7:57:42 PM  |  |
| EPA METHOD 8015D: GASOLINE RAN  | IGE          |   |          |     | Analyst: JJP          |  |
| Gasoline Range Organics (GRO)   | ND           | 4.9   | mg/Kg    | 1   | 7/25/2023 7:51:19 PM  |  |
| Surr: BFB                       | 96.0         | 15-244                                      | %Rec     | 1   | 7/25/2023 7:51:19 PM  |  |
| EPA METHOD 8021B: VOLATILES     |              |   |          |     | Analyst: JJP          |  |
| Benzene                         | ND           | 0.025                                       | mg/Kg    | 1   | 7/25/2023 7:51:19 PM  |  |
| Toluene                         | ND           | 0.049                                       | mg/Kg    | 1   | 7/25/2023 7:51:19 PM  |  |
| Ethylbenzene                    | ND           | 0.049                                       | mg/Kg    | 1   | 7/25/2023 7:51:19 PM  |  |
| Xylenes, Total                  | ND           | 0.099                                       | mg/Kg    | 1   | 7/25/2023 7:51:19 PM  |  |
| Surr: 4-Bromofluorobenzene      | 120          | 39.1-146                                    | %Rec     | 1   | 7/25/2023 7:51:19 PM  |  |
| EPA METHOD 300.0: ANIONS        |              |   |          |     | Analyst: JTT          |  |
| Chloride                        | 5600         | 300   | mg/Kg    | 100 | 7/28/2023 10:20:30 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
  - Reporting Limit

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**Project:** 

**Analytical Report** Lab Order 2307A39

Date Reported: 8/4/2023

#### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

Client Sample ID: BH23-09 4.0' Collection Date: 7/20/2023 11:50:00 AM Received Date: 7/22/2023 10:30:00 AM

| Lab ID: 2307A39-018              | Matrix: SOIL | Received Date: 7/22/2023 10:30:00 AM |          |              |                       |  |
|----------------------------------|--------------|--------------------------------------|----------|--------------|-----------------------|--|
| Analyses                         | Result       | RL Qu                                | al Units | DF           | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANGE |              |                                      |          | Analyst: PRD |                       |  |
| Diesel Range Organics (DRO)      | ND           | 9.7                                  | mg/Kg    | 1            | 7/25/2023 8:08:36 PM  |  |
| Motor Oil Range Organics (MRO)   | ND           | 49                                   | mg/Kg    | 1            | 7/25/2023 8:08:36 PM  |  |
| Surr: DNOP                       | 103          | 69-147                               | %Rec     | 1            | 7/25/2023 8:08:36 PM  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                      |          |              | Analyst: JJP          |  |
| Gasoline Range Organics (GRO)    | ND           | 4.6                                  | mg/Kg    | 1            | 7/25/2023 8:14:52 PM  |  |
| Surr: BFB                        | 95.8         | 15-244                               | %Rec     | 1            | 7/25/2023 8:14:52 PM  |  |
| EPA METHOD 8021B: VOLATILES      |              |                                      |          |              | Analyst: JJP          |  |
| Benzene                          | ND           | 0.023                                | mg/Kg    | 1            | 7/25/2023 8:14:52 PM  |  |
| Toluene                          | ND           | 0.046                                | mg/Kg    | 1            | 7/25/2023 8:14:52 PM  |  |
| Ethylbenzene                     | ND           | 0.046                                | mg/Kg    | 1            | 7/25/2023 8:14:52 PM  |  |
| Xylenes, Total                   | ND           | 0.092                                | mg/Kg    | 1            | 7/25/2023 8:14:52 PM  |  |
| Surr: 4-Bromofluorobenzene       | 119          | 39.1-146                             | %Rec     | 1            | 7/25/2023 8:14:52 PM  |  |
| EPA METHOD 300.0: ANIONS         |              |                                      |          |              | Analyst: JTT          |  |
| Chloride                         | 3300         | 150                                  | mg/Kg    | 50           | 7/28/2023 10:32:55 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND
- PQL Practical Quanitative Limit S
  - % Recovery outside of standard limits. If undiluted results may be estimated.
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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| Environmental Analysis Laboratory, Inc. |      | 04-Aug-23 |  |
|---|------|-----------|--|
| SUMMARY REPORT                          | WO#: | 2307A39   |  |

| Client:                  | Devon E              | nergy   |                     |                     |                     |             |                                   |           |          |      |  |
|--------------------------|----------------------|---|---------------------|---------------------|---------------------|-------------|-----------------------------------|-----------|----------|------|--|
| Project:                 | Laguna S             | Salado Fed 22 Fede                                | eral 4              |                     |                     |             |                                   |           |          |      |  |
| Sample ID:               | MB-76484             | TestCode: EPA Method 300.0: Anions                |                     |                     |                     |             |                                   |           |          |      |  |
| Client ID:               | PBS                  | Batch ID: 764                                     | RunNo: <b>98503</b> |                     |                     |             |                                   |           |          |      |  |
| Prep Date:               | 7/26/2023            | Analysis Date: 7/2                                | 6/2023              | SeqNo: 3587802      |                     | Units: mg/K | g                                 |           |          |      |  |
| Analyte                  |                      | Result PQL  | SPK value           | SPK Ref Val         | %REC                | LowLimit    | HighLimit                         | %RPD      | RPDLimit | Qual |  |
| Chloride                 |                      | ND 1.5  |                     |                     |                     |             |                                   |           |          |      |  |
| Sample ID:               | LCS-76484            | TestCode: EPA Method 300.0: Anions                |                     |                     |                     |             |                                   |           |          |      |  |
| Client ID:               | LCSS                 | LCSS Batch ID: 76484                              |                     |                     | RunNo: <b>98503</b> |             |                                   |           |          |      |  |
| Prep Date:               | 7/26/2023            | Analysis Date: 7/2                                | Ś                   | SeqNo: 35           | 587803              | Units: mg/K | Units: <b>mg/Kg</b>               |           |          |      |  |
| Analyte                  |                      | Result PQL  | SPK value           | SPK Ref Val         | %REC                | LowLimit    | HighLimit                         | %RPD      | RPDLimit | Qual |  |
| Chloride                 |                      | 14 1.5  | 15.00               | 0                   | 94.3                | 90          | 110                               |           |          |      |  |
| Sample ID:               | MB-76506             | TestCode: EPA Method 300.0: Anions                |                     |                     |                     |             |                                   |           |          |      |  |
| Client ID:               | PBS Batch ID: 76506  |   |                     | RunNo: <b>98546</b> |                     |             |                                   |           |          |      |  |
| Prep Date:               | 7/27/2023            | SeqNo: <b>3589322</b> Units: <b>mg/Kg</b>         |                     |                     |                     |             |                                   |           |          |      |  |
| Analyte                  |                      | Result PQL  | SPK value           | SPK Ref Val         | %REC                | LowLimit    | HighLimit                         | %RPD      | RPDLimit | Qual |  |
| Chloride                 |                      | ND 1.5  |                     |                     |                     |             |                                   |           |          |      |  |
| Sample ID:               | LCS-76506            | TestCode: EPA Method 300.0: Anions                |                     |                     |                     |             |                                   |           |          |      |  |
|                          | LCSS Batch ID: 76506 |   |                     | RunNo: <b>98546</b> |                     |             |                                   |           |          |      |  |
| Client ID:               | LCSS                 | Batch ID: 765                                     | 06                  | ŀ                   | kunino: 98          | 3546        |                                   |           |          |      |  |
| Client ID:<br>Prep Date: | LCSS<br>7/27/2023    | Batch ID: <b>765</b><br>Analysis Date: <b>7/2</b> |                     |                     | SeqNo: 35           |             | Units: <b>mg/K</b> g              | g         |          |      |  |
|                          |                      |   | 7/2023              |                     |                     |             | Units: <b>mg/K</b> g<br>HighLimit | g<br>%RPD | RPDLimit | Qual |  |

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| WO#: 2 | 607A39 |
|--------|--------|
| 04-    | Aug-23 |

| Client:<br>Project: | Devon En<br>Laguna Sa                               | •••                      | 22 Fed  | eral 4         |   |          |                     |                     |      |          |      |  |
|---------------------|---|--------------------------|---------|----------------|---|----------|---------------------|---------------------|------|----------|------|--|
| Sample ID:          | <b>2307A39-001AMS</b> SampType: <b>MS</b>           |                          |         |                | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |                     |                     |      |          |      |  |
| Client ID:          | BH23-03 0.0'  | Batch ID: 76429          |         |                | RunNo: <b>98469</b>                                 |          |                     |                     |      |          |      |  |
| Prep Date:          | 7/24/2023   | Analysis Date: 7/25/2023 |         | SeqNo: 3586051 |   |          | Units: <b>mg/Kg</b> |                     |      |          |      |  |
| Analyte             |   | Result                   | PQL     | SPK value      | SPK Ref Val   | %REC     | LowLimit            | HighLimit           | %RPD | RPDLimit | Qual |  |
| Diesel Range (      | Organics (DRO)                                      | 52                       | 9.9     | 49.50          | 0   | 106      | 54.2                | 135                 |      |          |      |  |
| Surr: DNOP          |   | 5.0                      |         | 4.950          |   | 102      | 69                  | 147                 |      |          |      |  |
| Sample ID:          | TestCode: EPA Method 8015M/D: Diesel Range Organics |                          |         |                |   |          |                     |                     |      |          |      |  |
| Client ID:          | BH23-03 0.0' Batch ID: 76429                        |                          |         |                | RunNo: 98469  |          |                     |                     |      |          |      |  |
| Prep Date:          | 7/24/2023   | Analysis Date: 7/25/2023 |         |                | 5   | SeqNo: 3 | 586052              | Units: mg/Kg        |      |          |      |  |
| Analyte             |   | Result                   | PQL     | SPK value      | SPK Ref Val   | %REC     | LowLimit            | HighLimit           | %RPD | RPDLimit | Qual |  |
| Diesel Range (      | Organics (DRO)                                      | 54                       | 9.7     | 48.73          | 0   | 110      | 54.2                | 135                 | 2.40 | 29.2     |      |  |
| Surr: DNOP          |   | 5.1                      |         | 4.873          |   | 105      | 69                  | 147                 | 0    | 0        |      |  |
| Sample ID:          | LCS-76429   | SampT                    | ype: LC | S              | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |                     |                     |      |          |      |  |
| Client ID:          | LCSS  | Batch ID: 76429          |         |                | RunNo: 98469  |          |                     |                     |      |          |      |  |
| Prep Date:          | 7/24/2023   | Analysis Date: 7/25/2023 |         |                | 5   | SeqNo: 3 | 586101              | Units: <b>mg/Kg</b> |      |          |      |  |
| Analyte             |   | Result                   | PQL     | SPK value      | SPK Ref Val   | %REC     | LowLimit            | HighLimit           | %RPD | RPDLimit | Qual |  |
| Diesel Range (      | Organics (DRO)                                      | 52                       | 10      | 50.00          | 0   | 104      | 61.9                | 130                 |      |          |      |  |
| Surr: DNOP          |   | 4.5                      |         | 5.000          |   | 90.8     | 69                  | 147                 |      |          |      |  |
| Sample ID:          | MB-76429 SampType: MBLK                             |                          |         |                | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |                     |                     |      |          |      |  |
| Client ID:          | PBS Batch ID: 76429                                 |                          |         | RunNo: 98469   |   |          |                     |                     |      |          |      |  |
| Prep Date:          | 7/24/2023   | Analysis Date: 7/25/2023 |         |                | SeqNo: 3586105 Units: mg/#                          |          |                     |                     | g    |          |      |  |
| Analyte             |   | Result                   | PQL     | SPK value      | SPK Ref Val   | %REC     | LowLimit            | HighLimit           | %RPD | RPDLimit | Qual |  |
| Diesel Range (      | Organics (DRO)                                      | ND                       | 10      |                |   |          |                     |                     |      |          |      |  |
| -                   | ge Organics (MRO)                                   | ND                       | 50      |                |   |          |                     |                     |      |          |      |  |
| Surr: DNOP          |   | 11                       |         | 10.00          |   | 114      | 69                  | 147                 |      |          |      |  |

#### **Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 20 of 22

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**Client:** 

**Project:** 

Surr: BFB

**Qualifiers:** 

\* D

Н

ND

PQL

S

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

Sample Diluted Due to Matrix

Practical Quanitative Limit

Not Detected at the Reporting Limit

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

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|----------------------------|------------------------|

% Recovery outside of standard limits. If undiluted results may be estimated.

2200

| В | Analyte | detected | in | the | associat |
|---|---------|----------|----|-----|----------|
|---|---------|----------|----|-----|----------|

ted Method Blank Е

222

244

0

0

15

- Sample pH Not In Range
- RL Reporting Limit

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

990.1

- J

Р

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| Sample ID: Ics-76413  | Samp  | Туре: <b>LC</b>   | s   | Tes                               | tCode: El   | PA Method   | 8015D: Gaso   | line Range | •        |      |
|---|---|---|---|-----------------------------------|---|---|---|------------|----------|------|
| Client ID: LCSS   | Batc  | h ID: <b>76</b> 4   | 413   | F                                 | RunNo: <b>9</b> 8   | 3484  |   |            |          |      |
| Prep Date: 7/24/2023  | Analysis [  | Date: 7/2   | 25/2023   | S                                 | SeqNo: 3  | 585304  | Units: <b>mg/k</b>                                    | ٤g         |          |      |
| Analyte   | Result  | PQL   | SPK value   | SPK Ref Val                       | %REC  | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| Gasoline Range Organics (GRC  | ) 22  | 5.0   | 25.00   | 0                                 | 88.5  | 70  | 130   |            |          |      |
| Surr: BFB   | 1900  |   | 1000  |                                   | 189   | 15  | 244   |            |          |      |
| Sample ID: mb-76413   | Samp  | Туре: <b>МЕ</b>   | BLK   | Tes                               | tCode: E  | PA Method   | 8015D: Gaso   | line Range | •        |      |
| Client ID: PBS  | Batc  | h ID: <b>76</b> 4   | 113   | F                                 | RunNo: 9  | 3484  |   |            |          |      |
| Prep Date: 7/24/2023  | Analysis [  | Date: 7/2   | 25/2023   | S                                 | SeqNo: 3  | 585305  | Units: <b>mg/k</b>                                    | ٤g         |          |      |
| Analyte   | Result  | PQL   | SPK value   | SPK Ref Val                       | %REC  | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| Gasoline Range Organics (GRO  | ) ND  | 5.0   |   |                                   |   |   |   |            |          |      |
| Surr: BFB   | 930   |   | 1000  |                                   | 93.4  | 15  | 244   |            |          |      |
|   |   |   |   |                                   |   |   |   |            |          |      |
| Sample ID: 2307a39-001a   | ams Samp <sup>-</sup>   | Type: MS  | 5   | Tes                               | tCode: El   | PA Method   | 8015D: Gaso   | line Range | •        |      |
| Sample ID: 2307a39-001a<br>Client ID: BH23-03 0.0'  |   | Type: <b>MS</b><br>h ID: <b>76</b> 4  |   |                                   | tCode: <b>Ef</b><br>RunNo: <b>9</b> 8                     |   | 8015D: Gaso   | line Range |          |      |
|   |   | h ID: <b>76</b> 4   | 413   | F                                 |   | 3484  | 8015D: Gaso<br>Units: mg/k                            | U          |          |      |
| Client ID: BH23-03 0.0'   | Batc  | h ID: <b>76</b> 4   | 413   | F                                 | RunNo: <b>9</b> 8   | 3484  |   | U          | RPDLimit | Qual |
| Client ID: BH23-03 0.0'<br>Prep Date: 7/24/2023   | Batc<br>Analysis I<br>Result                                    | h ID: <b>76</b> 4<br>Date: <b>7/</b> 2  | 413<br>25/2023  | F                                 | RunNo: 98<br>SeqNo: 3                                     | 3484<br>585307  | Units: <b>mg/k</b>                                    | (g         |          | Qual |
| Client ID: BH23-03 0.0'<br>Prep Date: 7/24/2023<br>Analyte  | Batc<br>Analysis I<br>Result                                    | h ID: <b>76</b> 4<br>Date: <b>7/</b> 2<br>PQL   | <b>413</b><br>25/2023<br>SPK value                                    | F<br>S<br>SPK Ref Val             | RunNo: 98<br>SeqNo: 38<br>%REC                            | 3484<br>585307<br>LowLimit                                  | Units: <b>mg/K</b><br>HighLimit                       | (g         |          | Qual |
| Client ID: BH23-03 0.0'<br>Prep Date: 7/24/2023<br>Analyte<br>Gasoline Range Organics (GRO  | Batc<br>Analysis I<br>Result<br>) 24<br>2000                    | h ID: <b>76</b> 4<br>Date: <b>7/</b> 2<br>PQL   | <b>113</b><br>25/2023<br>SPK value<br>24.68<br>987.2                  | F<br>SPK Ref Val<br>0             | RunNo: <b>9</b><br>SeqNo: <b>3</b><br>%REC<br>97.2<br>199 | 3484<br>585307<br>LowLimit<br>70<br>15                      | Units: <b>mg/k</b><br>HighLimit<br>130                | (g<br>%RPD | RPDLimit | Qual |
| Client ID: BH23-03 0.0'<br>Prep Date: 7/24/2023<br>Analyte<br>Gasoline Range Organics (GRO<br>Surr: BFB   | Batc<br>Analysis I<br>Result<br>) 24<br>2000<br>amsd Samp       | h ID: <b>76</b> 4<br>Date: <b>7</b> /2<br>PQL<br>4.9                                  | 25/2023<br>SPK value<br>24.68<br>987.2                                | F<br>SPK Ref Val<br>0<br>Tes      | RunNo: <b>9</b><br>SeqNo: <b>3</b><br>%REC<br>97.2<br>199 | 3484<br>585307<br>LowLimit<br>70<br>15<br>PA Method         | Units: <b>mg/k</b><br>HighLimit<br>130<br>244         | (g<br>%RPD | RPDLimit | Qual |
| Client ID: BH23-03 0.0'<br>Prep Date: 7/24/2023<br>Analyte<br>Gasoline Range Organics (GRO<br>Surr: BFB<br>Sample ID: 2307a39-001                             | Batc<br>Analysis I<br>Result<br>) 24<br>2000<br>amsd Samp       | h ID: <b>76</b> 4<br>Date: <b>7</b> /2<br>4.9<br>Type: <b>MS</b><br>h ID: <b>76</b> 4 | 113<br>25/2023<br>SPK value<br>24.68<br>987.2<br>5D                   | F<br>SPK Ref Val<br>0<br>Tes<br>F | RunNo: 9<br>SeqNo: 3<br>%REC<br>97.2<br>199<br>tCode: Ef  | 3484<br>585307<br>LowLimit<br>70<br>15<br>PA Method<br>3484 | Units: <b>mg/k</b><br>HighLimit<br>130<br>244         | (g<br>%RPD | RPDLimit | Qual |
| Client ID: BH23-03 0.0'<br>Prep Date: 7/24/2023<br>Analyte<br>Gasoline Range Organics (GRC<br>Surr: BFB<br>Sample ID: 2307a39-001:<br>Client ID: BH23-03 0.0' | Batc<br>Analysis I<br>Result<br>24<br>2000<br>amsd Samp<br>Batc | h ID: <b>76</b> 4<br>Date: <b>7</b> /2<br>4.9<br>Type: <b>MS</b><br>h ID: <b>76</b> 4 | 113<br>25/2023<br>SPK value<br>24.68<br>987.2<br>5D<br>113<br>25/2023 | F<br>SPK Ref Val<br>0<br>Tes<br>F | RunNo: 9<br>SeqNo: 3<br>%REC<br>97.2<br>199<br>tCode: Ef  | 3484<br>585307<br>LowLimit<br>70<br>15<br>PA Method<br>3484 | Units: mg/k<br>HighLimit<br>130<br>244<br>8015D: Gaso | (g<br>%RPD | RPDLimit | Qual |

WO#: 2307A39

04-Aug-23

**Client:** 

**Project:** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Laguna Salado Fed 22 Federal 4

| Sample ID:   | LCS-76413   | Samp  | Гуре: <b>LC</b>   | s  | Tes   | tCode: EF   | A Method  | 8021B: Volat   | iles   |                            |      |
|--|---|---|---|--|---|---|---|--|--|----------------------------|------|
| Client ID:   | LCSS  | Batc  | h ID: <b>76</b> 4   | 413  | F   | RunNo: <b>98</b>  | 3484  |  |  |                            |      |
| Prep Date:   | 7/24/2023   | Analysis [  | Date: 7/2   | 25/2023  | S   | SeqNo: 35   | 585317  | Units: mg/K  | íg   |                            |      |
| Analyte  |   | Result  | PQL   | SPK value  | SPK Ref Val   | %REC  | LowLimit  | HighLimit  | %RPD   | RPDLimit                   | Qual |
| Benzene  |   | 1.1   | 0.025   | 1.000  | 0   | 109   | 70  | 130  |  |                            |      |
| Toluene  |   | 1.1   | 0.050   | 1.000  | 0   | 109   | 70  | 130  |  |                            |      |
| Ethylbenzene   |   | 1.1   | 0.050   | 1.000  | 0   | 111   | 70  | 130  |  |                            |      |
| Xylenes, Total   |   | 3.4   | 0.10  | 3.000  | 0   | 112   | 70  | 130  |  |                            |      |
| Surr: 4-Bron   | nofluorobenzene   | 1.2   |   | 1.000  |   | 117   | 39.1  | 146  |  |                            |      |
| Sample ID:   | mb-76413  | Samp  | Гуре: <b>МЕ</b>   | BLK  | Tes   | tCode: EF   | PA Method   | 8021B: Volat   | iles   |                            |      |
| Client ID:   | PBS   | Batc  | h ID: <b>76</b> 4   | 413  | F   | RunNo: <b>98</b>  | 3484  |  |  |                            |      |
| Prep Date:   | 7/24/2023   | Analysis [  | Date: 7/2   | 25/2023  | S   | SeqNo: 35   | 585318  | Units: mg/K  | g  |                            |      |
| Analyte  |   | Result  | PQL   | SPK value  | SPK Ref Val   | %REC  | LowLimit  | HighLimit  | %RPD   | RPDLimit                   | Qual |
| Benzene  |   | ND  | 0.025   |  |   |   |   |  |  |                            |      |
| Toluene  |   | ND  | 0.050   |  |   |   |   |  |  |                            |      |
| Ethylbenzene   |   | ND  | 0.050   |  |   |   |   |  |  |                            |      |
| Xylenes, Total   |   | ND  | 0.10  |  |   |   |   |  |  |                            |      |
| Surr: 4-Bron   | nofluorobenzene   | 1.2   |   | 1.000  |   | 118   | 39.1  | 146  |  |                            |      |
|  |   |   |   |  |   |   |   |  |  |                            |      |
| Sample ID:   | 2307a39-002ams  | Samp  | Гуре: <b>МS</b>   | 5  | Tes   | tCode: EF   | PA Method   | 8021B: Volat   | iles   |                            |      |
| Sample ID:<br>Client ID:   | 2307a39-002ams<br>BH23-03 2.0'  | •   | Гуре: <b>МS</b><br>h ID: <b>76</b> 4  |  |   | tCode: EF<br>RunNo: 98  |   | 8021B: Volat   | iles   |                            |      |
|  |   | •   | h ID: 764   | 413  | F   |   | 3484  | 8021B: Volat<br>Units: mg/K  |  |                            |      |
| Client ID:   | BH23-03 2.0'  | Batc  | h ID: 764   | 413  | F   | RunNo: <b>98</b>  | 3484  |  |  | RPDLimit                   | Qual |
| Client ID:<br>Prep Date:   | BH23-03 2.0'  | Batc<br>Analysis [  | h ID: <b>76</b> 4<br>Date: <b>7/</b> 2  | 413<br>25/2023   | F   | RunNo: <b>98</b><br>SeqNo: <b>35</b>  | 3484<br>585321<br>LowLimit<br>70  | Units: mg/K  | g  | RPDLimit                   | Qual |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene  | BH23-03 2.0'  | Batc<br>Analysis I<br>Result<br>1.2<br>1.2  | h ID: <b>76</b> 4<br>Date: <b>7/</b> 2<br>PQL<br>0.025<br>0.049   | <b>113</b><br><b>25/2023</b><br>SPK value<br>0.9843<br>0.9843  | F<br>SPK Ref Val<br>0<br>0  | RunNo: 98<br>SeqNo: 38<br>%REC<br>117<br>120  | 3484<br>585321<br>LowLimit<br>70<br>70  | Units: <b>mg/K</b><br>HighLimit<br>130<br>130  | g  | RPDLimit                   | Qual |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene  | BH23-03 2.0'  | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2   | h ID: <b>76</b> 4<br>Date: <b>7</b> /2<br>0.025<br>0.049<br>0.049   | 25/2023<br>SPK value<br>0.9843<br>0.9843<br>0.9843   | F<br>SPK Ref Val<br>0<br>0<br>0   | RunNo: 98<br>SeqNo: 38<br><u>%REC</u><br>117<br>120<br>123  | 3484<br>585321<br>LowLimit<br>70<br>70<br>70  | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130   | g  | RPDLimit                   | Qual |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total  | BH23-03 2.0'<br>7/24/2023   | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2<br>3.6  | h ID: <b>76</b> 4<br>Date: <b>7/</b> 2<br>PQL<br>0.025<br>0.049   | 25/2023<br>SPK value<br>0.9843<br>0.9843<br>0.9843<br>2.953  | F<br>SPK Ref Val<br>0<br>0  | RunNo: 98<br>SeqNo: 35<br>%REC<br>117<br>120<br>123<br>123  | 3484<br>585321<br>20wLimit<br>70<br>70<br>70<br>70<br>70  | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130<br>130  | g  | RPDLimit                   | Qual |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total  | BH23-03 2.0'  | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2   | h ID: <b>76</b> 4<br>Date: <b>7</b> /2<br>0.025<br>0.049<br>0.049   | 25/2023<br>SPK value<br>0.9843<br>0.9843<br>0.9843   | F<br>SPK Ref Val<br>0<br>0<br>0   | RunNo: 98<br>SeqNo: 38<br><u>%REC</u><br>117<br>120<br>123  | 3484<br>585321<br>LowLimit<br>70<br>70<br>70  | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130   | g  | RPDLimit                   | Qual |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron  | BH23-03 2.0'<br>7/24/2023   | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2<br>3.6<br>1.2   | h ID: <b>76</b> 4<br>Date: <b>7</b> /2<br>0.025<br>0.049<br>0.049   | 25/2023<br>SPK value<br>0.9843<br>0.9843<br>0.9843<br>2.953<br>0.9843  | F<br>SPK Ref Val<br>0<br>0<br>0<br>0  | RunNo: 98<br>SeqNo: 35<br>%REC<br>117<br>120<br>123<br>123<br>119   | 3484<br>585321<br>20wLimit<br>70<br>70<br>70<br>70<br>39.1  | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130<br>130  | g<br>%RPD  | RPDLimit                   | Qual |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron  | BH23-03 2.0'<br>7/24/2023<br>nofluorobenzene                                    | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2<br>3.6<br>1.2<br>Samp   | h ID: 764<br>Date: 7/2<br>0.025<br>0.049<br>0.049<br>0.098  | 25/2023<br>SPK value<br>0.9843<br>0.9843<br>0.9843<br>2.953<br>0.9843  | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes                                    | RunNo: 98<br>SeqNo: 35<br>%REC<br>117<br>120<br>123<br>123<br>119   | 3484<br>585321<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1<br>PA Method   | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146   | g<br>%RPD  | RPDLimit                   | Qual |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Sample ID:  | BH23-03 2.0'<br>7/24/2023<br>hofluorobenzene<br>2307a39-002amsd                 | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2<br>3.6<br>1.2<br>Samp   | h ID: <b>76</b> 4<br>Date: <b>7</b> /2<br>0.025<br>0.049<br>0.049<br>0.098<br>Type: <b>MS</b><br>h ID: <b>76</b> 4                                      | 25/2023         SPK value         0.9843         0.9843         0.9843         2.953         0.9843  | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>F                                    | RunNo: 98<br>SeqNo: 35<br>%REC<br>117<br>120<br>123<br>123<br>119<br>tCode: EF  | 3484<br>585321<br>2000<br>70<br>70<br>70<br>70<br>39.1<br>24 Method<br>3484   | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146   | Sg<br>%RPD   | RPDLimit                   | Qual |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Sample ID:<br>Client ID:  | BH23-03 2.0'<br>7/24/2023<br>nofluorobenzene<br>2307a39-002amsd<br>BH23-03 2.0' | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2<br>3.6<br>1.2<br>Samp<br>Batc   | h ID: <b>76</b> 4<br>Date: <b>7</b> /2<br>0.025<br>0.049<br>0.049<br>0.098<br>Type: <b>MS</b><br>h ID: <b>76</b> 4                                      | 25/2023         SPK value         0.9843         0.9843         0.9843         0.9843         0.9843         0.9843         0.9843         0.9843         2.953         0.9843         2.953         0.9843         2.953         0.9843         2.953         0.9843         SD         #13         25/2023         SPK value | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>F                                    | RunNo: 98<br>SeqNo: 35<br>%REC<br>117<br>120<br>123<br>123<br>119<br>tCode: EF<br>RunNo: 98   | 3484<br>585321<br>70<br>70<br>70<br>39.1<br>2484<br>585322<br>LowLimit  | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146<br><b>8021B: Volat</b>                                    | Sg<br>%RPD   | RPDLimit                   | Qual |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Sample ID:<br>Client ID:<br>Prep Date:  | BH23-03 2.0'<br>7/24/2023<br>nofluorobenzene<br>2307a39-002amsd<br>BH23-03 2.0' | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2<br>3.6<br>1.2<br>Samp<br>Batc<br>Analysis I<br>Result<br>1.1                      | h ID: <b>76</b> 4<br>Date: <b>7</b> /2<br>0.025<br>0.049<br>0.049<br>0.098<br>Type: <b>MS</b><br>h ID: <b>76</b> 4<br>Date: <b>7</b> /2<br>PQL<br>0.025 | 413<br>25/2023<br>SPK value<br>0.9843<br>0.9843<br>2.953<br>0.9843<br>2.953<br>0.9843<br>5D<br>413<br>25/2023<br>SPK value<br>0.9911   | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F                               | RunNo: 98<br>SeqNo: 35<br>%REC<br>117<br>120<br>123<br>123<br>123<br>119<br>tCode: EF<br>RunNo: 98<br>SeqNo: 35                       | 3484<br>585321<br>70<br>70<br>70<br>70<br>39.1<br>74 Method<br>3484<br>585322<br>LowLimit<br>70                                 | Units: mg/K<br>HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volat<br>Units: mg/K                                   | iles   | RPDLimit<br>20             |      |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte   | BH23-03 2.0'<br>7/24/2023<br>nofluorobenzene<br>2307a39-002amsd<br>BH23-03 2.0' | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2<br>3.6<br>1.2<br>Samp<br>Batc<br>Analysis I<br>Result<br>1.1<br>1.2               | h ID: 764<br>Date: 7/2<br>0.025<br>0.049<br>0.049<br>0.098<br>Type: MS<br>h ID: 764<br>Date: 7/2<br>PQL<br>0.025<br>0.050                               | 413<br>25/2023<br>SPK value<br>0.9843<br>0.9843<br>0.9843<br>2.953<br>0.9843<br>0.9843<br>25/2023<br>SPK value<br>0.9911<br>0.9911   | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>SPK Ref Val<br>0<br>0                | RunNo: 98<br>SeqNo: 35<br>%REC<br>117<br>120<br>123<br>123<br>123<br>119<br>tCode: EF<br>RunNo: 98<br>SeqNo: 35<br>%REC<br>115<br>117 | 3484<br>585321<br>1000<br>500<br>500<br>500<br>500<br>500<br>500<br>5   | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146<br><b>8021B: Volat</b><br>Units: <b>mg/K</b><br>HighLimit | 5g<br>%RPD<br>iles<br>5g<br>%RPD<br>1.48<br>1.67         | RPDLimit<br>20<br>20       |      |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene                   | BH23-03 2.0'<br>7/24/2023<br>nofluorobenzene<br>2307a39-002amsd<br>BH23-03 2.0' | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2<br>1.2<br>3.6<br>1.2<br>Samp<br>Batc<br>Analysis I<br>Result<br>1.1<br>1.2<br>1.2 | h ID: 764<br>Date: 7/2<br>0.025<br>0.049<br>0.049<br>0.049<br>0.098<br>Type: MS<br>h ID: 764<br>Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050             | 413<br>25/2023<br>SPK value<br>0.9843<br>0.9843<br>2.953<br>0.9843<br>3.0.9843<br>2.953<br>0.9843<br>5D<br>413<br>25/2023<br>SPK value<br>0.9911<br>0.9911<br>0.9911   | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>5<br>SPK Ref Val<br>0<br>0<br>0<br>0 | RunNo: 98<br>SeqNo: 35<br>%REC<br>117<br>120<br>123<br>123<br>119<br>tCode: EF<br>RunNo: 98<br>SeqNo: 35<br>%REC<br>115<br>117<br>120 | 3484<br>585321<br>LowLimit<br>70<br>70<br>70<br>39.1<br>24 Method<br>3484<br>585322<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1 | Units: mg/K<br>HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volat<br>Units: mg/K<br>HighLimit<br>130<br>130<br>130 | 2g<br>%RPD<br>iles<br>2g<br>%RPD<br>1.48<br>1.67<br>1.89 | RPDLimit<br>20<br>20<br>20 |      |
| Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bron<br>Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total | BH23-03 2.0'<br>7/24/2023<br>nofluorobenzene<br>2307a39-002amsd<br>BH23-03 2.0' | Batc<br>Analysis I<br>Result<br>1.2<br>1.2<br>1.2<br>3.6<br>1.2<br>Samp<br>Batc<br>Analysis I<br>Result<br>1.1<br>1.2               | h ID: 764<br>Date: 7/2<br>0.025<br>0.049<br>0.049<br>0.098<br>Type: MS<br>h ID: 764<br>Date: 7/2<br>PQL<br>0.025<br>0.050                               | 413<br>25/2023<br>SPK value<br>0.9843<br>0.9843<br>0.9843<br>2.953<br>0.9843<br>0.9843<br>25/2023<br>SPK value<br>0.9911<br>0.9911   | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>SPK Ref Val<br>0<br>0                | RunNo: 98<br>SeqNo: 35<br>%REC<br>117<br>120<br>123<br>123<br>123<br>119<br>tCode: EF<br>RunNo: 98<br>SeqNo: 35<br>%REC<br>115<br>117 | 3484<br>585321<br>1000<br>500<br>500<br>500<br>500<br>500<br>500<br>5   | Units: mg/K<br>HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volat<br>Units: mg/K<br>HighLimit<br>130<br>130        | 5g<br>%RPD<br>iles<br>5g<br>%RPD<br>1.48<br>1.67         | RPDLimit<br>20<br>20       |      |

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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WO#: 2307A39

04-Aug-23

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY   | A<br>TEL: 505-345-39                     | tal Analysis Laborato<br>4901 Hawkins I<br>Ibuquerque, NM 871<br>75 FAX: 505-345-41<br>hallenvironmental.co | NE<br>09 <b>Sam</b>  <br>07 | ple Log-In Chec                             | k List      |
|---|--|---|-----------------------------|---|-------------|
| Client Name: Devon Energy   | Work Order Numb                          | er: 2307A39   |                             | RcptNo: 1                                   |             |
| Received By: Tracy Casarrubias<br>Completed By: Tracy Casarrubias                             | 7/22/2023 10:30:00<br>7/22/2023 10:46:19 |   |                             |   |             |
| Reviewed By: JN7/24/23  |  |   |                             |   |             |
| Chain of Custody  |  |   |                             |   |             |
| 1. Is Chain of Custody complete?  |  | Yes 🗌   | No 🗹                        | Not Present                                 |             |
| 2. How was the sample delivered?  |  | Courier   |                             |   |             |
| Log In<br>3. Was an attempt made to cool the samples?   |  | Yes 🔽   | No 🗌                        |   |             |
| 4. Were all samples received at a temperature   | of >0° C to 6.0°C                        | Yes 🗹   | No 🗌                        | NA 🗌  |             |
| 5. Sample(s) in proper container(s)?  |  | Yes 🔽   | No 🗌                        |   |             |
| 6. Sufficient sample volume for indicated test(s  | )?                                       | Yes 🗹   | No 🗌                        |   |             |
| 7 Are samples (except VOA and ONG) properl  | y preserved?                             | Yes 🗹   | No 🗌                        |   |             |
| 8. Was preservative added to bottles?   |  | Yes 🗌   | No 🔽                        | NA 🗌  | /           |
| 9. Received at least 1 vial with headspace <1/4   | " for AQ VOA?                            | Yes   | No 🗌                        | NA 🗹  |             |
| 10. Were any sample containers received broke   | n?                                       | Yes   | No 🗹                        | # of preserved                              |             |
| 11. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)           |  | Yes 🔽   | No                          | bottles checked<br>for pH:<br>(<2 or >12 un | less noted) |
| 12. Are matrices correctly identified on Chain of   | Custody?                                 | Yes 🗹   | No 🗌                        | Adjusted?                                   |             |
| 13. Is it clear what analyses were requested?   |  | Yes 🗹   | No 🗌                        |   | - 100 /22   |
| 14. Were all holding times able to be met?<br>(If no, notify customer for authorization.)     |  | Yes 🗹   | No 🗌                        | Checked by:                                 | +110/15     |
| Special Handling (if applicable)  |  |   |                             |   |             |
| 15. Was client notified of all discrepancies with   | this order?                              | Yes   | No 🗌                        |   |             |
| Person Notified:  | Date:                                    | ]   |                             |   |             |
| By Whom:  | Via:                                     | 🗌 eMail 🔲 Ph  | one 🗌 Fax                   | In Person                                   |             |
| Regarding:  |  |   |                             |   |             |
| Client Instructions: Mailing address,   | phone number, and Er                     | nail/Fax are missing  | a on COC- TM                | C 7/22/23                                   |             |
| 16. Additional remarks:   |  |   |                             |   |             |
| 17. <u>Cooler Information</u><br>Cooler No Temp <sup>o</sup> C Condition So<br>1 0.9 Good Yes | eal Intact Seal No<br>s Yogi             | Seal Date S   | Signed By                   |   |             |

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|----------------|------------------|------------------|--------------------------------------|---------------|----------------------------|----------------------|--|----------|------------|---------------|-----------------|---------------|----------|------------------|---------------------------|--------------------|-----------------|----------|
| Ö              | hain-            | of-Cu            | Chain-of-Custody Record              |               | Turn-Around Tim            | Time:                | MA MO  |          |            | -             | <b>IAL</b>      |               | Z        | IR               | NO                        | HALL ENVIRONMENTAL | TAL             |          |
| Client:        | a                | (ava)            |                                      |               | <b>B</b> Standard          | Rush                 |  |          |            | •             | ANALYSIS L      | Ľ             | SIS      | L                | ABC                       | RAT                | ABORATORY       | ~        |
|                | Direct           | F B.I            | 1                                    |               |                            | hole to              | व्य  |          |            | _             | www.            | nallen        | viron    | menta            | www.hallenvironmental.com |                    |                 |          |
| Mailing ,      | Mailing Address: |                  |                                      |               |                            | Federal              | 1  |          | 4901       | Hawk          | 4901 Hawkins NE |               | nbnq     | erque            | Albuquerque, NM 87109     | 7109               |                 |          |
|                |                  |                  |                                      |               | Project #:                 | +14-01414            |  |          | Tel.       | 505-3         | 505-345-3975    | 5             | Гах      | 505-3            | Fax 505-345-4107          | 10                 |                 |          |
| Phone #:       | ŧ.               |                  |                                      |               | 5                          |                      | 1 IV 63 V  |          |            |               |                 | Ana           | iysis    | Analysis Kequest | lest                      | -                  |                 |          |
| email or Fax#: | · Fax#:          |                  |                                      |               | Project Manager            |                      |  | (12      |            |               | ę               | 'OS           | E        |                  | (ìne                      |                    |                 |          |
| QA/QC Package: | ackage:          |                  |                                      | (action)      | Kent                       | t stellings          | した   | 208) s   |            |               | SMISC           | -"Od          |          |                  | sdA\tr                    |                    |                 |          |
| L Standard     | dara<br>hation:  |                  |                                      | Idailoil      | Sampler:                   | HH                   |  | '8M'     |            |               |                 | 102           | .7       |                  | Jəsə                      |                    |                 |          |
|                |                  |                  |                                      |               |                            | Z Yes                | I No unoi  | L / :    |            |               | 10              |               |          | (AO              | <u>ча)</u>                |                    |                 |          |
|                | EDD (Type)       |                  |                                      |               | # of Coolers:              | 1                    | ita  |          |            |               | <b>31</b> 0     | _             |          | _                | orm                       |                    |                 |          |
|                |                  |                  |                                      |               | Cooler Temp(Including CF): | Including CF): 0,    | 0.) 5020-6   |          |            |               | by 8            |               |          | _                | oliloC                    |                    |                 |          |
| Date           | Time             | Matrix           | Sample Name                          |               | Container<br>Type and #    | Preservative<br>Type | HEAL No.   | (X 31)   | 8 Hay      | 8081 FDB (I   | 2HA9            | CI)E,<br>RCRA | 8560 (   | 0728             | Total                     |                    |                 |          |
| m              | 0060             | 1.05             | BH23-03                              | 0'0           | 402                        | ادلآ                 | 100  |          | -          |               |                 |               | _        |                  |                           |                    |                 |          |
|                | 0160             | _                | 151423-03                            | 2,0           |                            | -                    | 200  | -        | _          |               |                 | -             |          |                  |                           |                    |                 |          |
|                | 0260             |                  | BH23-04                              | 0.0           |                            |                      | 003  |          |            |               |                 |               |          |                  |                           |                    |                 |          |
|                | 0230             | ~                | BH23-04                              | 2,0           |                            | _                    | 2004   |          |            | _             |                 | -             | _        |                  |                           |                    |                 |          |
|                | 0460             |                  | BH23-04                              | 4.0           |                            |                      | 200  |          | -          |               |                 | -             |          |                  | 2                         |                    |                 |          |
|                | 0950             |                  | RH23-05                              | 0'0           |                            |                      | 100  | _        |            |               |                 | +             |          |                  |                           |                    |                 | -        |
|                | 0001             |                  | BH23-05                              | 2.0           |                            |                      | 507-   | _        |            | _             |                 | +             | -        |                  | -                         |                    |                 |          |
|                | 0101             |                  | BW23-05                              | 40.4          |                            |                      | 00%  | 4        |            | _             |                 | +             | +        |                  | ┥                         | 1                  |                 |          |
|                | 1020             |                  | BH23-06                              | 0             |                            |                      | 005  | 1        | +          | +             |                 |               | +        | T                | +                         |                    | 8               |          |
|                | 1030             |                  | BH23-06                              | 02            |                            |                      | 010  |          | -          |               |                 |               |          |                  | ╉                         |                    |                 |          |
| 12             | 0401             | 1                | BH23-06                              | 4.0           |                            | 7                    | 011  | -        | 7          |               |                 |               | -        |                  |                           |                    |                 |          |
|                | 1050             | 7                | BH23-07                              | 0.0           |                            | >                    |  | 2        | >          | -             |                 |               |          |                  |                           |                    |                 |          |
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| Client:        |                  | 0                |   |                |                              |                      |   |                  | ר ר      |                   | 4 ¥              | NV.      |                           |            | AALL ENVIRONMENTAL<br>ANALYSTS LABORATORY | .>       |
|                |                  |                  | 8 11  |                | Project Name:                | •                    |   |                  |          |                   | nellad           | iron i   | www.hallanvironmental.com |            |   |          |
| Mailing /      | Mailing Address: | Nrect<br>ss:     | 0.4   |                | Lyme S.                      | Sulado 22            | 22 Faleral 7                            | 49(              | 11 Haw   | 4901 Hawkins NE   |                  | endne    | Albuquerque, NM 87109     | M 8710     | Ō   |          |
|                |                  |                  |   |                | Project #: 2                 | 236-01414            | 1-1                                     | Ц<br>Ц<br>С      | l. 505-  | Tel. 505-345-3975 | 10               | Fax 5    | Fax 505-345-4107          | -4107      |   |          |
| Phone #:       |                  |                  |   |                |                              |                      |   |                  |          |                   | Ana              | ysis F   | Analysis Request          |            |   |          |
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| □ Standard     | dard             |                  | Level 4 (Full Validation)                                       | lidation)      |                              |                      |   |                  |          |                   |                  |          | euț                       |            |   |          |
| Accreditation: | ü                | □ Az Coi         | Az Compliance   |                |                              | AA                   |   |                  |          |                   | ON               |          | _                         |            |   |          |
|                |                  | □ Other          |   |                | On Ice:                      | IT Yes               | I NO (DD)                               |                  |          |                   | _                |          |                           |            |   |          |
|                | EDD (Type)       |                  |   |                | # of Coolers:                | -                    |   |                  |          |                   | _                | _        |                           |            |   |          |
|                |                  |                  |   |                | Cooler Temp(Including CF): 0 | including CF): 0     | 7-8.0.1 (C)                             |                  | _        |                   |                  | _        |                           |            |   |          |
| Date           | Time             | Matrix           | Sample Name   |                | Container<br>Type and #      | Preservative<br>Type | HEAL No.                                | RTEX<br>TPH: 0   | 9081 P   | J SHA9            | CI) E' I<br>BCBA | ) 0928   | 8270 (S<br>Total C        |            |   |          |
| m              |                  | 5.1              | BH23-07   | 2,0'           |                              | 106                  |   | L L              |          |                   |                  |          | -                         |            |   |          |
|                | 0111             |                  | 12123-08  | 0.0.           | -                            |                      | 014                                     |                  |          |                   |                  |          |                           |            |   |          |
|                | 1120             |                  | BA23-08   | 2.0            |                              |                      | 015                                     |                  |          |                   |                  |          |                           |            |   |          |
|                | 1130             |                  | 10-5240   | 00             |                              |                      | 010                                     |                  |          |                   |                  |          |                           |            |   |          |
|                | 0411             |                  | 12423-09  | 2.0'           |                              | //                   | EIO                                     | W.V              |          |                   | ~                |          |                           |            |   |          |
|                | 1150             | $\geq$           | 123-09  | 40             |                              | Δ                    | 015                                     | VN               |          |                   |                  |          |                           |            |   |          |
|                |                  |                  | NSWR3-  |                |                              |                      |   |                  |          |                   |                  |          |                           |            |   |          |
|                |                  |                  | 1 Server  |                |                              |                      |   |                  |          |                   |                  |          |                           |            |   |          |
|                |                  |                  | m.  |                |                              |                      |   |                  |          |                   | -                |          |                           |            |   |          |
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| Date:          | Time:            | Relinquished by: | led by:   |                | Received by:                 | Via:                 |   | Remarks          |          | 1.1               | Ton to           | 5        | i test Stalling           | 4          |   |          |
|                |                  |                  |   |                | MALLUN                       | 20                   | 50/103                                  |                  | )        | 5                 |                  | 5 -      | Ð                         | -          |   |          |
| Date:          | Time:            | Relinquished by: | led by:   |                | Rečeived by:                 | Via: cour            | 1                                       |                  |          | X                 | Ste              | 113      | K Stalling @ WerkX        | Per le     | 5   |          |
| 20/192         | Aw               | allu             | 1 mm  |                |                              | 10                   | C2/22/2                                 |                  |          |                   | ø                |          |                           |            |   |          |
| Released       | To Imag          | amples sut       | pmitted to Hall Environment                                     | al may be subo | contracted to other a        | ccredited laborato   | Released to maging: 4/1/2025 1:37:41 PM | nis possibility. | Any sub- | contracted        | data will        | be clear | / notated o               | on the ana | ∕tical report.                            | •        |



August 03, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176 FAX:

RE: Laguna Salado 22 Federal 4

OrderNo.: 2307B06

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 24 sample(s) on 7/25/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: Laguna Salado 22 Federal 4

Analytical Report Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-10 0.0 Collection Date: 7/21/2023 8:00:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-001             | Matrix: SOIL | Rece     | eived Date: | 7/25/2 | 023 7:10:00 AM       |
|---------------------------------|--------------|----------|-------------|--------|----------------------|
| Analyses                        | Result       | RL Qu    | al Units    | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |             |        | Analyst: SB          |
| Diesel Range Organics (DRO)     | ND           | 10       | mg/Kg       | 1      | 7/27/2023 2:05:14 PM |
| Motor Oil Range Organics (MRO)  | ND           | 50       | mg/Kg       | 1      | 7/27/2023 2:05:14 PM |
| Surr: DNOP                      | 96.6         | 69-147   | %Rec        | 1      | 7/27/2023 2:05:14 PM |
| EPA METHOD 8015D: GASOLINE RANG | <b>E</b>     |          |             |        | Analyst: JJP         |
| Gasoline Range Organics (GRO)   | ND           | 4.7      | mg/Kg       | 1      | 7/27/2023 7:16:00 PM |
| Surr: BFB                       | 96.3         | 15-244   | %Rec        | 1      | 7/27/2023 7:16:00 PM |
| EPA METHOD 8021B: VOLATILES     |              |          |             |        | Analyst: <b>JJP</b>  |
| Benzene                         | ND           | 0.023    | mg/Kg       | 1      | 7/27/2023 7:16:00 PM |
| Toluene                         | ND           | 0.047    | mg/Kg       | 1      | 7/27/2023 7:16:00 PM |
| Ethylbenzene                    | ND           | 0.047    | mg/Kg       | 1      | 7/27/2023 7:16:00 PM |
| Xylenes, Total                  | ND           | 0.094    | mg/Kg       | 1      | 7/27/2023 7:16:00 PM |
| Surr: 4-Bromofluorobenzene      | 117          | 39.1-146 | %Rec        | 1      | 7/27/2023 7:16:00 PM |
| EPA METHOD 300.0: ANIONS        |              |          |             |        | Analyst: <b>JMT</b>  |
| Chloride                        | 29000        | 1500     | mg/Kg       | 500    | 7/31/2023 3:32:48 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 31

Project:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-10 2.0 Collection Date: 7/21/2023 8:10:00 AM **Received Date:** 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-002             | Matrix: SOIL | Reco     | eived Date: | 7/25/2 | 023 7:10:00 AM       |
|---------------------------------|--------------|----------|-------------|--------|----------------------|
| Analyses                        | Result       | RL Qu    | al Units    | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |             |        | Analyst: SB          |
| Diesel Range Organics (DRO)     | ND           | 9.1      | mg/Kg       | 1      | 7/27/2023 2:29:16 PM |
| Motor Oil Range Organics (MRO)  | ND           | 45       | mg/Kg       | 1      | 7/27/2023 2:29:16 PM |
| Surr: DNOP                      | 96.1         | 69-147   | %Rec        | 1      | 7/27/2023 2:29:16 PM |
| EPA METHOD 8015D: GASOLINE RAN  | GE           |          |             |        | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)   | ND           | 4.9      | mg/Kg       | 1      | 7/27/2023 7:39:33 PM |
| Surr: BFB                       | 96.8         | 15-244   | %Rec        | 1      | 7/27/2023 7:39:33 PM |
| EPA METHOD 8021B: VOLATILES     |              |          |             |        | Analyst: JJP         |
| Benzene                         | ND           | 0.024    | mg/Kg       | 1      | 7/27/2023 7:39:33 PM |
| Toluene                         | ND           | 0.049    | mg/Kg       | 1      | 7/27/2023 7:39:33 PM |
| Ethylbenzene                    | ND           | 0.049    | mg/Kg       | 1      | 7/27/2023 7:39:33 PM |
| Xylenes, Total                  | ND           | 0.098    | mg/Kg       | 1      | 7/27/2023 7:39:33 PM |
| Surr: 4-Bromofluorobenzene      | 118          | 39.1-146 | %Rec        | 1      | 7/27/2023 7:39:33 PM |
| EPA METHOD 300.0: ANIONS        |              |          |             |        | Analyst: <b>JMT</b>  |
| Chloride                        | 3600         | 150      | mg/Kg       | 50     | 7/31/2023 3:45:08 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 2 of 31

2307B06-003

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-10 3.5 Collection Date: 7/21/2023 8:20:00 AM Matrix: SOIL Received Date: 7/25/2023 7:10:00 AM

| yzed               | Date Analyzed                            | DF          | Units                  | L Qual           | RL                         | Result          | Analyses   |
|--------------------|--|-------------|------------------------|------------------|----------------------------|-----------------|--|
| nalyst: <b>SB</b>  | Analyst:                                 |             |                        |                  |                            | GANICS          | EPA METHOD 8015M/D: DIESEL RANGE ORG   |
| 2:53:24 PM         | 7/27/2023 2:53:24                        | 1           | mg/Kg                  | 9.4              | 9.4                        | ND              | Diesel Range Organics (DRO)  |
| 2:53:24 PM         | 7/27/2023 2:53:24                        | 1           | mg/Kg                  | 47               | 47                         | ND              | Motor Oil Range Organics (MRO)   |
| 2:53:24 PM         | 7/27/2023 2:53:24                        | 1           | %Rec                   | 47               | 69-147                     | 94.6            | Surr: DNOP   |
| nalyst: <b>JJP</b> | Analyst:                                 |             |                        |                  |                            |                 | EPA METHOD 8015D: GASOLINE RANGE   |
| 8:03:05 PM         | 7/27/2023 8:03:05                        | 1           | mg/Kg                  | 4.9              | 4.9                        | ND              | Gasoline Range Organics (GRO)  |
| 8:03:05 PM         | 7/27/2023 8:03:05                        | 1           | %Rec                   | 44               | 15-244                     | 96.4            | Surr: BFB  |
| nalyst: <b>JJP</b> | Analyst:                                 |             |                        |                  |                            |                 | EPA METHOD 8021B: VOLATILES  |
| 8:03:05 PM         | 7/27/2023 8:03:05                        | 1           | mg/Kg                  | 25               | 0.025                      | ND              | Benzene  |
| 8:03:05 PM         | 7/27/2023 8:03:05                        | 1           | mg/Kg                  | 49               | 0.049                      | ND              | Toluene  |
| 8:03:05 PM         | 7/27/2023 8:03:05                        | 1           | mg/Kg                  | 49               | 0.049                      | ND              | Ethylbenzene   |
| 8:03:05 PM         | 7/27/2023 8:03:05                        | 1           | mg/Kg                  | 98               | 0.098                      | ND              | Xylenes, Total   |
| 8:03:05 PM         | 7/27/2023 8:03:05                        | 1           | %Rec                   | 46               | 39.1-146                   | 119             | Surr: 4-Bromofluorobenzene   |
| nalyst: <b>JMT</b> | Analyst:                                 |             |                        |                  |                            |                 | EPA METHOD 300.0: ANIONS   |
| 3:57:29 PM         | 7/31/2023 3:57:29                        | 50          | mg/Kg                  | 50               | 150                        | 3900            | Chloride   |
| 3<br>3<br>3        | 7/27/2023<br>7/27/2023<br>7/27/2023<br>A | 1<br>1<br>1 | mg/Kg<br>mg/Kg<br>%Rec | 949<br>998<br>46 | 0.049<br>0.098<br>39.1-146 | ND<br>ND<br>119 | Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>EPA METHOD 300.0: ANIONS |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project:

Analytical Report Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-11 0.0 Collection Date: 7/21/2023 8:30:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-004             | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/25/2023 7:10:00 AM |     |                      |  |
|---------------------------------|--------------|----------|--|-----|----------------------|--|
| Analyses                        | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS  |          |  |     | Analyst: SB          |  |
| Diesel Range Organics (DRO)     | ND           | 9.9      | mg/Kg                                      | 1   | 7/27/2023 3:17:25 PM |  |
| Motor Oil Range Organics (MRO)  | ND           | 50       | mg/Kg                                      | 1   | 7/27/2023 3:17:25 PM |  |
| Surr: DNOP                      | 96.9         | 69-147   | %Rec                                       | 1   | 7/27/2023 3:17:25 PM |  |
| EPA METHOD 8015D: GASOLINE RAN  | IGE          |          |  |     | Analyst: JJP         |  |
| Gasoline Range Organics (GRO)   | ND           | 4.8      | mg/Kg                                      | 1   | 7/27/2023 8:26:37 PM |  |
| Surr: BFB                       | 94.9         | 15-244   | %Rec                                       | 1   | 7/27/2023 8:26:37 PM |  |
| EPA METHOD 8021B: VOLATILES     |              |          |  |     | Analyst: JJP         |  |
| Benzene                         | ND           | 0.024    | mg/Kg                                      | 1   | 7/27/2023 8:26:37 PM |  |
| Toluene                         | ND           | 0.048    | mg/Kg                                      | 1   | 7/27/2023 8:26:37 PM |  |
| Ethylbenzene                    | ND           | 0.048    | mg/Kg                                      | 1   | 7/27/2023 8:26:37 PM |  |
| Xylenes, Total                  | ND           | 0.096    | mg/Kg                                      | 1   | 7/27/2023 8:26:37 PM |  |
| Surr: 4-Bromofluorobenzene      | 118          | 39.1-146 | %Rec                                       | 1   | 7/27/2023 8:26:37 PM |  |
| EPA METHOD 300.0: ANIONS        |              |          |  |     | Analyst: JMT         |  |
| Chloride                        | 41000        | 1500     | mg/Kg                                      | 500 | 7/31/2023 4:09:49 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-11 2.0 **Project:** Laguna Salado 22 Federal 4 Collection Date: 7/21/2023 8:40:00 AM Lab ID: 2307B06-005 Matrix: SOIL Received Date: 7/25/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 8.6 mg/Kg 1 7/27/2023 4:05:24 PM Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 7/27/2023 4:05:24 PM Surr: DNOP 96.5 69-147 %Rec 1 7/27/2023 4:05:24 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 7/27/2023 11:10:34 PM 5.0 mg/Kg 1 Surr: BFB 94.4 15-244 %Rec 1 7/27/2023 11:10:34 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 7/27/2023 11:10:34 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 7/27/2023 11:10:34 PM Ethylbenzene ND 0.050 mg/Kg 1 7/27/2023 11:10:34 PM Xylenes, Total ND mg/Kg 1 7/27/2023 11:10:34 PM 0.099 Surr: 4-Bromofluorobenzene 117 39.1-146 %Rec 1 7/27/2023 11:10:34 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg Chloride 7/31/2023 4:22:10 PM

4400

150

50

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range RL Reporting Limit

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Project: Laguna Salado 22 Federal 4

**Analytical Report** Lab Order 2307B06

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/3/2023 Client Sample ID: BH23-12 0.0 Collection Date: 7/21/2023 8:50:00 AM

| Lab ID: 2307B06-006            | Matrix: SOIL | Reco     | eived Date: | 7/25/2 | 023 7:10:00 AM        |
|--------------------------------|--------------|----------|-------------|--------|-----------------------|
| Analyses                       | Result       | RL Qu    | al Units    | DF     | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RAI | NGE ORGANICS |          |             |        | Analyst: SB           |
| Diesel Range Organics (DRO)    | ND           | 9.2      | mg/Kg       | 1      | 7/27/2023 4:54:11 PM  |
| Motor Oil Range Organics (MRO) | ND           | 46       | mg/Kg       | 1      | 7/27/2023 4:54:11 PM  |
| Surr: DNOP                     | 95.2         | 69-147   | %Rec        | 1      | 7/27/2023 4:54:11 PM  |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |          |             |        | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)  | ND           | 4.8      | mg/Kg       | 1      | 7/27/2023 11:33:54 PM |
| Surr: BFB                      | 94.2         | 15-244   | %Rec        | 1      | 7/27/2023 11:33:54 PM |
| EPA METHOD 8021B: VOLATILES    |              |          |             |        | Analyst: <b>JJP</b>   |
| Benzene                        | ND           | 0.024    | mg/Kg       | 1      | 7/27/2023 11:33:54 PM |
| Toluene                        | ND           | 0.048    | mg/Kg       | 1      | 7/27/2023 11:33:54 PM |
| Ethylbenzene                   | ND           | 0.048    | mg/Kg       | 1      | 7/27/2023 11:33:54 PM |
| Xylenes, Total                 | ND           | 0.097    | mg/Kg       | 1      | 7/27/2023 11:33:54 PM |
| Surr: 4-Bromofluorobenzene     | 116          | 39.1-146 | %Rec        | 1      | 7/27/2023 11:33:54 PM |
| EPA METHOD 300.0: ANIONS       |              |          |             |        | Analyst: <b>JMT</b>   |
| Chloride                       | 9700         | 300      | mg/Kg       | 100    | 7/31/2023 4:34:31 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2307B06-007

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-12 2.0 Collection Date: 7/21/2023 9:00:00 AM Received Date: 7/25/2023 7:10:00 AM

| 230/200 00/                      |           |          |          |     |                       |  |  |
|----------------------------------|-----------|----------|----------|-----|-----------------------|--|--|
| Analyses                         | Result RL |          | al Units | DF  | Date Analyzed         |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS  |          |          |     | Analyst: <b>SB</b>    |  |  |
| Diesel Range Organics (DRO)      | ND        | 8.9      | mg/Kg    | 1   | 7/27/2023 5:18:43 PM  |  |  |
| Motor Oil Range Organics (MRO)   | ND        | 45       | mg/Kg    | 1   | 7/27/2023 5:18:43 PM  |  |  |
| Surr: DNOP                       | 96.1      | 69-147   | %Rec     | 1   | 7/27/2023 5:18:43 PM  |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E         |          |          |     | Analyst: JJP          |  |  |
| Gasoline Range Organics (GRO)    | ND        | 4.8      | mg/Kg    | 1   | 7/27/2023 11:57:16 PM |  |  |
| Surr: BFB                        | 91.6      | 15-244   | %Rec     | 1   | 7/27/2023 11:57:16 PM |  |  |
| EPA METHOD 8021B: VOLATILES      |           |          |          |     | Analyst: JJP          |  |  |
| Benzene                          | ND        | 0.024    | mg/Kg    | 1   | 7/27/2023 11:57:16 PM |  |  |
| Toluene                          | ND        | 0.048    | mg/Kg    | 1   | 7/27/2023 11:57:16 PM |  |  |
| Ethylbenzene                     | ND        | 0.048    | mg/Kg    | 1   | 7/27/2023 11:57:16 PM |  |  |
| Xylenes, Total                   | ND        | 0.095    | mg/Kg    | 1   | 7/27/2023 11:57:16 PM |  |  |
| Surr: 4-Bromofluorobenzene       | 114       | 39.1-146 | %Rec     | 1   | 7/27/2023 11:57:16 PM |  |  |
| EPA METHOD 300.0: ANIONS         |           |          |          |     | Analyst: JMT          |  |  |
| Chloride                         | 8900      | 300      | mg/Kg    | 100 | 7/31/2023 4:46:51 PM  |  |  |
|                                  |           |          |          |     |                       |  |  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-13 0.0 Collection Date: 7/21/2023 9:10:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-008             | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/25/2023 7:10:00 AM |     |                       |  |
|---------------------------------|--------------|----------|--|-----|-----------------------|--|
| Analyses                        | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |  |     | Analyst: SB           |  |
| Diesel Range Organics (DRO)     | ND           | 9.6      | mg/Kg                                      | 1   | 7/27/2023 5:43:23 PM  |  |
| Motor Oil Range Organics (MRO)  | ND           | 48       | mg/Kg                                      | 1   | 7/27/2023 5:43:23 PM  |  |
| Surr: DNOP                      | 92.9         | 69-147   | %Rec                                       | 1   | 7/27/2023 5:43:23 PM  |  |
| EPA METHOD 8015D: GASOLINE RANG | GE           |          |  |     | Analyst: JJP          |  |
| Gasoline Range Organics (GRO)   | ND           | 4.8      | mg/Kg                                      | 1   | 7/28/2023 12:20:42 AM |  |
| Surr: BFB                       | 93.1         | 15-244   | %Rec                                       | 1   | 7/28/2023 12:20:42 AM |  |
| EPA METHOD 8021B: VOLATILES     |              |          |  |     | Analyst: JJP          |  |
| Benzene                         | ND           | 0.024    | mg/Kg                                      | 1   | 7/28/2023 12:20:42 AM |  |
| Toluene                         | ND           | 0.048    | mg/Kg                                      | 1   | 7/28/2023 12:20:42 AM |  |
| Ethylbenzene                    | ND           | 0.048    | mg/Kg                                      | 1   | 7/28/2023 12:20:42 AM |  |
| Xylenes, Total                  | ND           | 0.097    | mg/Kg                                      | 1   | 7/28/2023 12:20:42 AM |  |
| Surr: 4-Bromofluorobenzene      | 116          | 39.1-146 | %Rec                                       | 1   | 7/28/2023 12:20:42 AM |  |
| EPA METHOD 300.0: ANIONS        |              |          |  |     | Analyst: <b>JMT</b>   |  |
| Chloride                        | 13000        | 1500     | mg/Kg                                      | 500 | 7/31/2023 4:59:10 PM  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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2307B06-009

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-13 2.0 Collection Date: 7/21/2023 9:20:00 AM Received Date: 7/25/2023 7:10:00 AM

| <b>Eub ID</b> : 2307800 009      | But Bo Boll |          |          |    |                       |
|----------------------------------|-------------|----------|----------|----|-----------------------|
| Analyses                         | Result      | RL Qu    | al Units | DF | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS    |          |          |    | Analyst: SB           |
| Diesel Range Organics (DRO)      | ND          | 9.5      | mg/Kg    | 1  | 7/27/2023 6:08:23 PM  |
| Motor Oil Range Organics (MRO)   | ND          | 47       | mg/Kg    | 1  | 7/27/2023 6:08:23 PM  |
| Surr: DNOP                       | 94.4        | 69-147   | %Rec     | 1  | 7/27/2023 6:08:23 PM  |
| EPA METHOD 8015D: GASOLINE RANG  | E           |          |          |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)    | ND          | 4.8      | mg/Kg    | 1  | 7/28/2023 12:44:17 AM |
| Surr: BFB                        | 94.1        | 15-244   | %Rec     | 1  | 7/28/2023 12:44:17 AM |
| EPA METHOD 8021B: VOLATILES      |             |          |          |    | Analyst: JJP          |
| Benzene                          | ND          | 0.024    | mg/Kg    | 1  | 7/28/2023 12:44:17 AM |
| Toluene                          | ND          | 0.048    | mg/Kg    | 1  | 7/28/2023 12:44:17 AM |
| Ethylbenzene                     | ND          | 0.048    | mg/Kg    | 1  | 7/28/2023 12:44:17 AM |
| Xylenes, Total                   | ND          | 0.096    | mg/Kg    | 1  | 7/28/2023 12:44:17 AM |
| Surr: 4-Bromofluorobenzene       | 117         | 39.1-146 | %Rec     | 1  | 7/28/2023 12:44:17 AM |
| EPA METHOD 300.0: ANIONS         |             |          |          |    | Analyst: JMT          |
| Chloride                         | 4900        | 150      | mg/Kg    | 50 | 7/31/2023 5:11:31 PM  |
|                                  |             |          |          |    |                       |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-14 0.0 Collection Date: 7/21/2023 9:30:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-010             | Matrix: SOIL | Rece     | 023 7:10:00 AM |     |                      |
|---------------------------------|--------------|----------|----------------|-----|----------------------|
| Analyses                        | Result       | RL Qu    | al Units       | DF  | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |                |     | Analyst: SB          |
| Diesel Range Organics (DRO)     | ND           | 9.3      | mg/Kg          | 1   | 7/27/2023 6:33:20 PM |
| Motor Oil Range Organics (MRO)  | ND           | 46       | mg/Kg          | 1   | 7/27/2023 6:33:20 PM |
| Surr: DNOP                      | 95.7         | 69-147   | %Rec           | 1   | 7/27/2023 6:33:20 PM |
| EPA METHOD 8015D: GASOLINE RAN  | GE           |          |                |     | Analyst: JJP         |
| Gasoline Range Organics (GRO)   | ND           | 4.9      | mg/Kg          | 1   | 7/28/2023 1:07:36 AM |
| Surr: BFB                       | 91.9         | 15-244   | %Rec           | 1   | 7/28/2023 1:07:36 AM |
| EPA METHOD 8021B: VOLATILES     |              |          |                |     | Analyst: JJP         |
| Benzene                         | ND           | 0.025    | mg/Kg          | 1   | 7/28/2023 1:07:36 AM |
| Toluene                         | ND           | 0.049    | mg/Kg          | 1   | 7/28/2023 1:07:36 AM |
| Ethylbenzene                    | ND           | 0.049    | mg/Kg          | 1   | 7/28/2023 1:07:36 AM |
| Xylenes, Total                  | ND           | 0.098    | mg/Kg          | 1   | 7/28/2023 1:07:36 AM |
| Surr: 4-Bromofluorobenzene      | 114          | 39.1-146 | %Rec           | 1   | 7/28/2023 1:07:36 AM |
| EPA METHOD 300.0: ANIONS        |              |          |                |     | Analyst: <b>JMT</b>  |
| Chloride                        | 40000        | 1500     | mg/Kg          | 500 | 7/31/2023 5:48:35 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project:

Analytical Report Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-14 2.0 Collection Date: 7/21/2023 9:40:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-011              | Matrix: SOIL | Reco     | <b>Received Date:</b> 7/25/2023 7:10:00 AM |     |                      |  |
|----------------------------------|--------------|----------|--|-----|----------------------|--|
| Analyses                         | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |  |     | Analyst: SB          |  |
| Diesel Range Organics (DRO)      | ND           | 9.7      | mg/Kg                                      | 1   | 7/27/2023 7:22:55 PM |  |
| Motor Oil Range Organics (MRO)   | ND           | 48       | mg/Kg                                      | 1   | 7/27/2023 7:22:55 PM |  |
| Surr: DNOP                       | 94.2         | 69-147   | %Rec                                       | 1   | 7/27/2023 7:22:55 PM |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |  |     | Analyst: JJP         |  |
| Gasoline Range Organics (GRO)    | ND           | 4.8      | mg/Kg                                      | 1   | 7/28/2023 1:30:57 AM |  |
| Surr: BFB                        | 93.6         | 15-244   | %Rec                                       | 1   | 7/28/2023 1:30:57 AM |  |
| EPA METHOD 8021B: VOLATILES      |              |          |  |     | Analyst: JJP         |  |
| Benzene                          | ND           | 0.024    | mg/Kg                                      | 1   | 7/28/2023 1:30:57 AM |  |
| Toluene                          | ND           | 0.048    | mg/Kg                                      | 1   | 7/28/2023 1:30:57 AM |  |
| Ethylbenzene                     | ND           | 0.048    | mg/Kg                                      | 1   | 7/28/2023 1:30:57 AM |  |
| Xylenes, Total                   | ND           | 0.095    | mg/Kg                                      | 1   | 7/28/2023 1:30:57 AM |  |
| Surr: 4-Bromofluorobenzene       | 115          | 39.1-146 | %Rec                                       | 1   | 7/28/2023 1:30:57 AM |  |
| EPA METHOD 300.0: ANIONS         |              |          |  |     | Analyst: JMT         |  |
| Chloride                         | 7500         | 300      | mg/Kg                                      | 100 | 7/31/2023 6:00:56 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

7/31/2023 6:13:16 PM

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-14 4.0 **Project:** Laguna Salado 22 Federal 4 Collection Date: 7/21/2023 9:50:00 AM Lab ID: 2307B06-012 Matrix: SOIL Received Date: 7/25/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 7/27/2023 7:47:37 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/27/2023 7:47:37 PM Surr: DNOP 97.0 69-147 %Rec 1 7/27/2023 7:47:37 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 7/28/2023 1:54:18 AM 4.8 mg/Kg 1 Surr: BFB 93.6 15-244 %Rec 1 7/28/2023 1:54:18 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 7/28/2023 1:54:18 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/28/2023 1:54:18 AM Ethylbenzene ND 0.048 mg/Kg 1 7/28/2023 1:54:18 AM Xylenes, Total ND 0.097 mg/Kg 1 7/28/2023 1:54:18 AM Surr: 4-Bromofluorobenzene 117 39.1-146 %Rec 1 7/28/2023 1:54:18 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT

8600

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Chloride

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

mg/Kg

100

300

Р Sample pH Not In Range RL Reporting Limit

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Project:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-15 0.0' Collection Date: 7/21/2023 10:00:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-013             | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/25/2023 7:10:00 AM |     |                      |  |
|---------------------------------|--------------|----------|--|-----|----------------------|--|
| Analyses                        | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |  |     | Analyst: SB          |  |
| Diesel Range Organics (DRO)     | ND           | 9.4      | mg/Kg                                      | 1   | 7/27/2023 8:12:23 PM |  |
| Motor Oil Range Organics (MRO)  | ND           | 47       | mg/Kg                                      | 1   | 7/27/2023 8:12:23 PM |  |
| Surr: DNOP                      | 97.3         | 69-147   | %Rec                                       | 1   | 7/27/2023 8:12:23 PM |  |
| EPA METHOD 8015D: GASOLINE RANG | GE           |          |  |     | Analyst: <b>JJP</b>  |  |
| Gasoline Range Organics (GRO)   | ND           | 4.9      | mg/Kg                                      | 1   | 7/28/2023 2:17:38 AM |  |
| Surr: BFB                       | 91.3         | 15-244   | %Rec                                       | 1   | 7/28/2023 2:17:38 AM |  |
| EPA METHOD 8021B: VOLATILES     |              |          |  |     | Analyst: JJP         |  |
| Benzene                         | ND           | 0.024    | mg/Kg                                      | 1   | 7/28/2023 2:17:38 AM |  |
| Toluene                         | ND           | 0.049    | mg/Kg                                      | 1   | 7/28/2023 2:17:38 AM |  |
| Ethylbenzene                    | ND           | 0.049    | mg/Kg                                      | 1   | 7/28/2023 2:17:38 AM |  |
| Xylenes, Total                  | ND           | 0.097    | mg/Kg                                      | 1   | 7/28/2023 2:17:38 AM |  |
| Surr: 4-Bromofluorobenzene      | 114          | 39.1-146 | %Rec                                       | 1   | 7/28/2023 2:17:38 AM |  |
| EPA METHOD 300.0: ANIONS        |              |          |  |     | Analyst: JMT         |  |
| Chloride                        | 27000        | 1500     | mg/Kg                                      | 500 | 7/31/2023 6:25:37 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-15 2.0' Collection Date: 7/21/2023 10:10:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-014             | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/25/2023 7:10:00 AM |     |                      |  |
|---------------------------------|--------------|----------|--|-----|----------------------|--|
| Analyses                        | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |  |     | Analyst: SB          |  |
| Diesel Range Organics (DRO)     | ND           | 9.9      | mg/Kg                                      | 1   | 7/27/2023 8:37:06 PM |  |
| Motor Oil Range Organics (MRO)  | ND           | 50       | mg/Kg                                      | 1   | 7/27/2023 8:37:06 PM |  |
| Surr: DNOP                      | 99.0         | 69-147   | %Rec                                       | 1   | 7/27/2023 8:37:06 PM |  |
| EPA METHOD 8015D: GASOLINE RANG | GE           |          |  |     | Analyst: JJP         |  |
| Gasoline Range Organics (GRO)   | ND           | 4.9      | mg/Kg                                      | 1   | 7/28/2023 2:41:01 AM |  |
| Surr: BFB                       | 95.3         | 15-244   | %Rec                                       | 1   | 7/28/2023 2:41:01 AM |  |
| EPA METHOD 8021B: VOLATILES     |              |          |  |     | Analyst: JJP         |  |
| Benzene                         | ND           | 0.025    | mg/Kg                                      | 1   | 7/28/2023 2:41:01 AM |  |
| Toluene                         | ND           | 0.049    | mg/Kg                                      | 1   | 7/28/2023 2:41:01 AM |  |
| Ethylbenzene                    | ND           | 0.049    | mg/Kg                                      | 1   | 7/28/2023 2:41:01 AM |  |
| Xylenes, Total                  | ND           | 0.098    | mg/Kg                                      | 1   | 7/28/2023 2:41:01 AM |  |
| Surr: 4-Bromofluorobenzene      | 118          | 39.1-146 | %Rec                                       | 1   | 7/28/2023 2:41:01 AM |  |
| EPA METHOD 300.0: ANIONS        |              |          |  |     | Analyst: <b>JMT</b>  |  |
| Chloride                        | 6500         | 300      | mg/Kg                                      | 100 | 7/31/2023 6:37:57 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-15 3.0' **Project:** Laguna Salado 22 Federal 4 Collection Date: 7/21/2023 10:20:00 AM Lab ID: 2307B06-015 Matrix: SOIL Received Date: 7/25/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 10 mg/Kg 1 7/28/2023 10:35:43 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/28/2023 10:35:43 PM Surr: DNOP 98.5 69-147 %Rec 1 7/28/2023 10:35:43 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 7/28/2023 12:00:00 PM 4.8 mg/Kg 1 Surr: BFB 83.9 15-244 %Rec 1 7/28/2023 12:00:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 7/28/2023 12:00:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/28/2023 12:00:00 PM Ethylbenzene ND 0.048 mg/Kg 1 7/28/2023 12:00:00 PM Xylenes, Total ND 0.096 mg/Kg 1 7/28/2023 12:00:00 PM

Surr: 4-Bromofluorobenzene 81.3 39.1-146 %Rec 7/28/2023 12:00:00 PM **EPA METHOD 300.0: ANIONS** mg/Kg Chloride 7/31/2023 6:50:19 PM 7500 300 100

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

1

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 15 of 31

Analyst: JMT

Analytical Report Lab Order 2307B06

Date Reported: 8/3/2023

7/31/2023 7:02:39 PM

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-16 0.0' **Project:** Laguna Salado 22 Federal 4 Collection Date: 7/21/2023 10:30:00 AM Lab ID: 2307B06-016 Matrix: SOIL Received Date: 7/25/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 7/28/2023 10:46:49 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/28/2023 10:46:49 PM Surr: DNOP 103 69-147 %Rec 1 7/28/2023 10:46:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 7/28/2023 1:06:00 PM 4.9 mg/Kg 1 Surr: BFB 80.4 15-244 %Rec 1 7/28/2023 1:06:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 7/28/2023 1:06:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/28/2023 1:06:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/28/2023 1:06:00 PM Xylenes, Total ND 0.098 mg/Kg 1 7/28/2023 1:06:00 PM Surr: 4-Bromofluorobenzene 79.7 39.1-146 %Rec 1 7/28/2023 1:06:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT

37000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Chloride

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

mg/Kg

500

1500

P Sample pH Not In Range

RL Reporting Limit

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**Project:** 

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-16 2.0' Collection Date: 7/21/2023 10:40:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-017              | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/25/2023 7:10:00 AM |     |                       |  |
|----------------------------------|--------------|----------|--|-----|-----------------------|--|
| Analyses                         | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |  |     | Analyst: PRD          |  |
| Diesel Range Organics (DRO)      | ND           | 9.3      | mg/Kg                                      | 1   | 7/28/2023 10:57:53 PM |  |
| Motor Oil Range Organics (MRO)   | ND           | 47       | mg/Kg                                      | 1   | 7/28/2023 10:57:53 PM |  |
| Surr: DNOP                       | 99.6         | 69-147   | %Rec                                       | 1   | 7/28/2023 10:57:53 PM |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |  |     | Analyst: KMN          |  |
| Gasoline Range Organics (GRO)    | ND           | 4.8      | mg/Kg                                      | 1   | 7/28/2023 2:11:00 PM  |  |
| Surr: BFB                        | 82.8         | 15-244   | %Rec                                       | 1   | 7/28/2023 2:11:00 PM  |  |
| EPA METHOD 8021B: VOLATILES      |              |          |  |     | Analyst: <b>KMN</b>   |  |
| Benzene                          | ND           | 0.024    | mg/Kg                                      | 1   | 7/28/2023 2:11:00 PM  |  |
| Toluene                          | ND           | 0.048    | mg/Kg                                      | 1   | 7/28/2023 2:11:00 PM  |  |
| Ethylbenzene                     | ND           | 0.048    | mg/Kg                                      | 1   | 7/28/2023 2:11:00 PM  |  |
| Xylenes, Total                   | ND           | 0.096    | mg/Kg                                      | 1   | 7/28/2023 2:11:00 PM  |  |
| Surr: 4-Bromofluorobenzene       | 80.4         | 39.1-146 | %Rec                                       | 1   | 7/28/2023 2:11:00 PM  |  |
| EPA METHOD 300.0: ANIONS         |              |          |  |     | Analyst: JMT          |  |
| Chloride                         | 8300         | 300      | mg/Kg                                      | 100 | 7/31/2023 7:15:01 PM  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2307B06-018

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-16 4.0' Collection Date: 7/21/2023 10:50:00 AM Received Date: 7/25/2023 7:10:00 AM

| Analyses                         | Result   | RL Qu    | al Units | DF  | Date Analyzed         |
|----------------------------------|----------|----------|----------|-----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS |          |          |     | Analyst: PRD          |
| Diesel Range Organics (DRO)      | ND       | 9.0      | mg/Kg    | 1   | 7/28/2023 11:08:59 PM |
| Motor Oil Range Organics (MRO)   | ND       | 45       | mg/Kg    | 1   | 7/28/2023 11:08:59 PM |
| Surr: DNOP                       | 92.7     | 69-147   | %Rec     | 1   | 7/28/2023 11:08:59 PM |
| EPA METHOD 8015D: GASOLINE RANG  | E        |          |          |     | Analyst: KMN          |
| Gasoline Range Organics (GRO)    | ND       | 4.8      | mg/Kg    | 1   | 7/28/2023 2:33:00 PM  |
| Surr: BFB                        | 81.1     | 15-244   | %Rec     | 1   | 7/28/2023 2:33:00 PM  |
| EPA METHOD 8021B: VOLATILES      |          |          |          |     | Analyst: KMN          |
| Benzene                          | ND       | 0.024    | mg/Kg    | 1   | 7/28/2023 2:33:00 PM  |
| Toluene                          | ND       | 0.048    | mg/Kg    | 1   | 7/28/2023 2:33:00 PM  |
| Ethylbenzene                     | ND       | 0.048    | mg/Kg    | 1   | 7/28/2023 2:33:00 PM  |
| Xylenes, Total                   | ND       | 0.095    | mg/Kg    | 1   | 7/28/2023 2:33:00 PM  |
| Surr: 4-Bromofluorobenzene       | 79.4     | 39.1-146 | %Rec     | 1   | 7/28/2023 2:33:00 PM  |
| EPA METHOD 300.0: ANIONS         |          |          |          |     | Analyst: JMT          |
| Chloride                         | 5600     | 300      | mg/Kg    | 100 | 7/31/2023 7:27:21 PM  |
|                                  |          |          |          |     |                       |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado 22 Federal 4

Analytical Report Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-17 0.0' Collection Date: 7/21/2023 11:00:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-019            | Matrix: SOIL | Rece     | eived Date: | 7/25/2 | 023 7:10:00 AM        |
|--------------------------------|--------------|----------|-------------|--------|-----------------------|
| Analyses                       | Result       | RL Qu    | al Units    | DF     | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RAN | IGE ORGANICS |          |             |        | Analyst: PRD          |
| Diesel Range Organics (DRO)    | ND           | 9.0      | mg/Kg       | 1      | 7/28/2023 11:20:03 PM |
| Motor Oil Range Organics (MRO) | ND           | 45       | mg/Kg       | 1      | 7/28/2023 11:20:03 PM |
| Surr: DNOP                     | 97.6         | 69-147   | %Rec        | 1      | 7/28/2023 11:20:03 PM |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |          |             |        | Analyst: KMN          |
| Gasoline Range Organics (GRO)  | ND           | 4.9      | mg/Kg       | 1      | 7/28/2023 2:55:00 PM  |
| Surr: BFB                      | 83.3         | 15-244   | %Rec        | 1      | 7/28/2023 2:55:00 PM  |
| EPA METHOD 8021B: VOLATILES    |              |          |             |        | Analyst: KMN          |
| Benzene                        | ND           | 0.024    | mg/Kg       | 1      | 7/28/2023 2:55:00 PM  |
| Toluene                        | ND           | 0.049    | mg/Kg       | 1      | 7/28/2023 2:55:00 PM  |
| Ethylbenzene                   | ND           | 0.049    | mg/Kg       | 1      | 7/28/2023 2:55:00 PM  |
| Xylenes, Total                 | ND           | 0.097    | mg/Kg       | 1      | 7/28/2023 2:55:00 PM  |
| Surr: 4-Bromofluorobenzene     | 80.4         | 39.1-146 | %Rec        | 1      | 7/28/2023 2:55:00 PM  |
| EPA METHOD 300.0: ANIONS       |              |          |             |        | Analyst: <b>JMT</b>   |
| Chloride                       | 22000        | 1500     | mg/Kg       | 500    | 7/31/2023 7:39:41 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceed

H Holding times for preparation or analysis exceeded

NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Project:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-17 2.0' Collection Date: 7/21/2023 11:10:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-020              | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/25/2023 7:10:00 AM |    |                       |  |  |  |  |
|----------------------------------|--------------|----------|--|----|-----------------------|--|--|--|--|
| Analyses                         | Result       | RL Qu    | al Units                                   | DF | Date Analyzed         |  |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |  |    | Analyst: PRD          |  |  |  |  |
| Diesel Range Organics (DRO)      | ND           | 8.9      | mg/Kg                                      | 1  | 7/28/2023 11:31:07 PM |  |  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 45       | mg/Kg                                      | 1  | 7/28/2023 11:31:07 PM |  |  |  |  |
| Surr: DNOP                       | 100          | 69-147   | %Rec                                       | 1  | 7/28/2023 11:31:07 PM |  |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |  |    | Analyst: KMN          |  |  |  |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9      | mg/Kg                                      | 1  | 7/28/2023 3:17:00 PM  |  |  |  |  |
| Surr: BFB                        | 86.5         | 15-244   | %Rec                                       | 1  | 7/28/2023 3:17:00 PM  |  |  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |          |  |    | Analyst: KMN          |  |  |  |  |
| Benzene                          | ND           | 0.024    | mg/Kg                                      | 1  | 7/28/2023 3:17:00 PM  |  |  |  |  |
| Toluene                          | ND           | 0.049    | mg/Kg                                      | 1  | 7/28/2023 3:17:00 PM  |  |  |  |  |
| Ethylbenzene                     | ND           | 0.049    | mg/Kg                                      | 1  | 7/28/2023 3:17:00 PM  |  |  |  |  |
| Xylenes, Total                   | ND           | 0.098    | mg/Kg                                      | 1  | 7/28/2023 3:17:00 PM  |  |  |  |  |
| Surr: 4-Bromofluorobenzene       | 79.4         | 39.1-146 | %Rec                                       | 1  | 7/28/2023 3:17:00 PM  |  |  |  |  |
| EPA METHOD 300.0: ANIONS         |              |          |  |    | Analyst: JMT          |  |  |  |  |
| Chloride                         | 5700         | 150      | mg/Kg                                      | 50 | 7/31/2023 8:16:43 PM  |  |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 20 of 31

2307B06-021

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

Client Sample ID: BH23-17 4.0' Collection Date: 7/21/2023 11:20:00 AM Received Date: 7/25/2023 7:10:00 AM

| 2001200 021                        |          |          |           | =0. |                       |
|------------------------------------|----------|----------|-----------|-----|-----------------------|
| Analyses                           | Result   | RL Qu    | ual Units | DF  | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RANGE C | ORGANICS |          |           |     | Analyst: PRD          |
| Diesel Range Organics (DRO)        | ND       | 9.1      | mg/Kg     | 1   | 7/28/2023 11:42:15 PM |
| Motor Oil Range Organics (MRO)     | ND       | 45       | mg/Kg     | 1   | 7/28/2023 11:42:15 PM |
| Surr: DNOP                         | 98.0     | 69-147   | %Rec      | 1   | 7/28/2023 11:42:15 PM |
| EPA METHOD 8015D: GASOLINE RANGE   |          |          |           |     | Analyst: KMN          |
| Gasoline Range Organics (GRO)      | ND       | 4.8      | mg/Kg     | 1   | 7/28/2023 3:39:00 PM  |
| Surr: BFB                          | 82.0     | 15-244   | %Rec      | 1   | 7/28/2023 3:39:00 PM  |
| EPA METHOD 8021B: VOLATILES        |          |          |           |     | Analyst: KMN          |
| Benzene                            | ND       | 0.024    | mg/Kg     | 1   | 7/28/2023 3:39:00 PM  |
| Toluene                            | ND       | 0.048    | mg/Kg     | 1   | 7/28/2023 3:39:00 PM  |
| Ethylbenzene                       | ND       | 0.048    | mg/Kg     | 1   | 7/28/2023 3:39:00 PM  |
| Xylenes, Total                     | ND       | 0.096    | mg/Kg     | 1   | 7/28/2023 3:39:00 PM  |
| Surr: 4-Bromofluorobenzene         | 80.8     | 39.1-146 | %Rec      | 1   | 7/28/2023 3:39:00 PM  |
| EPA METHOD 300.0: ANIONS           |          |          |           |     | Analyst: JMT          |
| Chloride                           | 7000     | 300      | mg/Kg     | 100 | 7/31/2023 8:29:04 PM  |
|                                    |          |          |           |     |                       |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

7/31/2023 8:41:25 PM

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-18 0.0' **Project:** Laguna Salado 22 Federal 4 Collection Date: 7/21/2023 11:30:00 AM Lab ID: 2307B06-022 Matrix: SOIL Received Date: 7/25/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 7/28/2023 11:53:15 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 7/28/2023 11:53:15 PM Surr: DNOP 108 69-147 %Rec 1 7/28/2023 11:53:15 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 7/28/2023 4:01:00 PM 4.9 mg/Kg 1 Surr: BFB 83.7 15-244 %Rec 1 7/28/2023 4:01:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 7/28/2023 4:01:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/28/2023 4:01:00 PM Ethylbenzene ND 0.049 mg/Kg 1 7/28/2023 4:01:00 PM Xylenes, Total ND 0.099 mg/Kg 1 7/28/2023 4:01:00 PM Surr: 4-Bromofluorobenzene 81.0 39.1-146 %Rec 1 7/28/2023 4:01:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT

48000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Chloride

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

mg/Kg

500

1500

Р Sample pH Not In Range

RL Reporting Limit Page 22 of 31

Project: Laguna Salado 22 Federal 4

**Analytical Report** Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-18 2.0' Collection Date: 7/21/2023 11:40:00 AM **Dessived Deter** 7/25/2022 7:10:00 AM

| Lab ID: 2307B06-023            | Matrix: SOIL | Rece     | eived Date: | 7/25/2 | 023 7:10:00 AM        |
|--------------------------------|--------------|----------|-------------|--------|-----------------------|
| Analyses                       | Result       | RL Qu    | al Units    | DF     | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RAN | IGE ORGANICS |          |             |        | Analyst: PRD          |
| Diesel Range Organics (DRO)    | ND           | 9.6      | mg/Kg       | 1      | 7/29/2023 12:15:12 AM |
| Motor Oil Range Organics (MRO) | ND           | 48       | mg/Kg       | 1      | 7/29/2023 12:15:12 AM |
| Surr: DNOP                     | 106          | 69-147   | %Rec        | 1      | 7/29/2023 12:15:12 AM |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |          |             |        | Analyst: KMN          |
| Gasoline Range Organics (GRO)  | ND           | 4.9      | mg/Kg       | 1      | 7/28/2023 4:23:00 PM  |
| Surr: BFB                      | 86.5         | 15-244   | %Rec        | 1      | 7/28/2023 4:23:00 PM  |
| EPA METHOD 8021B: VOLATILES    |              |          |             |        | Analyst: KMN          |
| Benzene                        | ND           | 0.024    | mg/Kg       | 1      | 7/28/2023 4:23:00 PM  |
| Toluene                        | ND           | 0.049    | mg/Kg       | 1      | 7/28/2023 4:23:00 PM  |
| Ethylbenzene                   | ND           | 0.049    | mg/Kg       | 1      | 7/28/2023 4:23:00 PM  |
| Xylenes, Total                 | ND           | 0.097    | mg/Kg       | 1      | 7/28/2023 4:23:00 PM  |
| Surr: 4-Bromofluorobenzene     | 80.9         | 39.1-146 | %Rec        | 1      | 7/28/2023 4:23:00 PM  |
| EPA METHOD 300.0: ANIONS       |              |          |             |        | Analyst: JMT          |
| Chloride                       | 5900         | 300      | mg/Kg       | 100    | 7/31/2023 8:53:46 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado 22 Federal 4

Analytical Report Lab Order 2307B06

Date Reported: 8/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-18 4.0" Collection Date: 7/21/2023 11:50:00 AM Received Date: 7/25/2023 7:10:00 AM

| Lab ID: 2307B06-024              | Matrix: SOIL | Reco     | eived Date: | 023 7:10:00 AM |                       |
|----------------------------------|--------------|----------|-------------|----------------|-----------------------|
| Analyses                         | Result       | RL Qu    | al Units    | DF             | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |             |                | Analyst: PRD          |
| Diesel Range Organics (DRO)      | ND           | 9.2      | mg/Kg       | 1              | 7/29/2023 12:26:16 AM |
| Motor Oil Range Organics (MRO)   | ND           | 46       | mg/Kg       | 1              | 7/29/2023 12:26:16 AM |
| Surr: DNOP                       | 105          | 69-147   | %Rec        | 1              | 7/29/2023 12:26:16 AM |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |             |                | Analyst: KMN          |
| Gasoline Range Organics (GRO)    | ND           | 5.0      | mg/Kg       | 1              | 7/28/2023 5:07:00 PM  |
| Surr: BFB                        | 83.1         | 15-244   | %Rec        | 1              | 7/28/2023 5:07:00 PM  |
| EPA METHOD 8021B: VOLATILES      |              |          |             |                | Analyst: KMN          |
| Benzene                          | ND           | 0.025    | mg/Kg       | 1              | 7/28/2023 5:07:00 PM  |
| Toluene                          | ND           | 0.050    | mg/Kg       | 1              | 7/28/2023 5:07:00 PM  |
| Ethylbenzene                     | ND           | 0.050    | mg/Kg       | 1              | 7/28/2023 5:07:00 PM  |
| Xylenes, Total                   | ND           | 0.099    | mg/Kg       | 1              | 7/28/2023 5:07:00 PM  |
| Surr: 4-Bromofluorobenzene       | 79.9         | 39.1-146 | %Rec        | 1              | 7/28/2023 5:07:00 PM  |
| EPA METHOD 300.0: ANIONS         |              |          |             |                | Analyst: JMT          |
| Chloride                         | 9300         | 300      | mg/Kg       | 100            | 7/31/2023 9:06:07 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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| , | WO#: | 2307B06   |
|---|------|-----------|
|   |      | 03-Aug-23 |

| Client:             | Devon       | n Energy                 |  |
|---------------------|-------------|--------------------------|--|
| Project:            | Lagun       | a Salado 22 Federal 4    |  |
| Sample ID:          | MB-76528    | SampType: MBLK           | TestCode: EPA Method 300.0: Anions                     |
| Client ID:          | PBS         | Batch ID: 76528          | RunNo: 98582   |
| Prep Date:          | 7/27/2023   | Analysis Date: 7/28/2023 | SeqNo: 3589673 Units: mg/Kg                            |
| Analyte<br>Chloride |             | ResultPQLSPK valueND1.5  | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Sample ID:          | LCS-76528   | SampType: LCS            | TestCode: EPA Method 300.0: Anions                     |
| Client ID:          | LCSS        | Batch ID: 76528          | RunNo: 98582   |
| Prep Date:          | 7/27/2023   | Analysis Date: 7/28/2023 | SeqNo: 3589674 Units: mg/Kg                            |
| Analyte             |             | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride            |             | 14 1.5 15.00             | 0 92.3 90 110  |
| Sample ID:          | MB-76546    | SampType: MBLK           | TestCode: EPA Method 300.0: Anions                     |
| Client ID:          | PBS         | Batch ID: 76546          | RunNo: 98582   |
| Prep Date:          | 7/28/2023   | Analysis Date: 7/28/2023 | SeqNo: 3589705 Units: mg/Kg                            |
| Analyte             |             | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride            |             | ND 1.5                   |  |
| Sample ID:          | LCS-76546   | SampType: LCS            | TestCode: EPA Method 300.0: Anions                     |
| Client ID:          | LCSS        | Batch ID: 76546          | RunNo: 98582   |
| Prep Date:          | = 100 10000 | Analysis Date: 7/28/2023 | SeqNo: <b>3589706</b> Units: <b>mg/Kg</b>              |
| Thep Date.          | 7/28/2023   | Analysis Date. 1120/2023 |  |
| Analyte             | 7/28/2023   | Result PQL SPK value     |  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Client:** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| Project: Laguna                | Salado 22 H    | Federal           | 4         |             |                 |           |                    |            |          |      |
|--------------------------------|----------------|-------------------|-----------|-------------|-----------------|-----------|--------------------|------------|----------|------|
| Sample ID: MB-76478            | SampT          | уре: МЕ           | BLK       | Tes         | tCode: El       | PA Method | 8015M/D: Die       | esel Range | Organics |      |
| Client ID: PBS                 | Batch          | n ID: <b>76</b> 4 | 478       | F           | RunNo: <b>9</b> | 8560      |                    |            |          |      |
| Prep Date: 7/26/2023           | Analysis D     | Date: 7/2         | 27/2023   | \$          | SeqNo: 3        | 589110    | Units: <b>mg/k</b> | ٢g         |          |      |
| Analyte                        | Result         | PQL               | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND             | 10                |           |             |                 |           |                    |            |          |      |
| Motor Oil Range Organics (MRO) | ND             | 50                |           |             |                 |           |                    |            |          |      |
| Surr: DNOP                     | 13             |                   | 10.00     |             | 126             | 69        | 147                |            |          |      |
| Sample ID: LCS-76478           | SampT          | ype: LC           | S         | Tes         | tCode: El       | PA Method | 8015M/D: Die       | esel Range | Organics |      |
| Client ID: LCSS                | Batch          | n ID: <b>76</b> 4 | 478       | F           | RunNo: <b>9</b> | 8560      |                    |            |          |      |
| Prep Date: 7/26/2023           | Analysis D     | Date: 7/2         | 27/2023   | Ş           | SeqNo: 3        | 589111    | Units: <b>mg/#</b> | ٢g         |          |      |
| Analyte                        | Result         | PQL               | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | 48             | 10                | 50.00     | 0           | 96.9            | 61.9      | 130                |            |          |      |
| Surr: DNOP                     | 5.0            |                   | 5.000     |             | 101             | 69        | 147                |            |          |      |
| Sample ID: 2307B06-015AMS      | s SampT        | ype: MS           | 3         | Tes         | tCode: El       | PA Method | 8015M/D: Die       | esel Range | Organics |      |
| Client ID: BH23-15 3.0'        | Batch          | n ID: <b>76</b> 4 | 487       | F           | RunNo: <b>9</b> | 8583      |                    |            |          |      |
| Prep Date: 7/26/2023           | Analysis D     | Date: 7/2         | 29/2023   | Ş           | SeqNo: 3        | 589726    | Units: mg/k        | ٢g         |          |      |
| Analyte                        | Result         | PQL               | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | 44             | 9.6               | 48.08     | 0           | 91.4            | 54.2      | 135                |            |          |      |
| Surr: DNOP                     | 4.6            |                   | 4.808     |             | 95.7            | 69        | 147                |            |          |      |
| Sample ID: 2307B06-015AMS      | <b>D</b> SampT | уре: <b>МS</b>    | SD.       | Tes         | tCode: El       | PA Method | 8015M/D: Die       | esel Range | Organics |      |
| Client ID: BH23-15 3.0'        | Batch          | n ID: <b>76</b> 4 | 487       | F           | RunNo: <b>9</b> | 8583      |                    |            |          |      |
| Prep Date: 7/26/2023           | Analysis D     | Date: 7/2         | 29/2023   | \$          | SeqNo: 3        | 589727    | Units: mg/k        | ٢g         |          |      |
| Analyte                        | Result         | PQL               | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | 46             | 9.8               | 49.16     | 0           | 93.5            | 54.2      | 135                | 4.45       | 29.2     |      |
| Surr: DNOP                     | 4.8            |                   | 4.916     |             | 97.8            | 69        | 147                | 0          | 0        |      |
| Sample ID: LCS-76487           | SampT          | ype: LC           | S         | Tes         | tCode: El       | PA Method | 8015M/D: Die       | esel Range | Organics |      |
| Client ID: LCSS                | Batch          | n ID: 764         | 487       | F           | RunNo: <b>9</b> | 8583      |                    |            |          |      |
| Prep Date: 7/26/2023           | Analysis D     | Date: 7/2         | 28/2023   | Ş           | SeqNo: 3        | 589774    | Units: mg/k        | ٢g         |          |      |
| Analyte                        | Result         | PQL               | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | 48             | 10                | 50.00     | 0           | 95.9            | 61.9      | 130                |            |          |      |
| 0 0100                         |                |                   |           |             |                 |           |                    |            |          |      |

#### Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S

4.9

5.000

Analyte detected in the associated Method Blank в

97.9

147

69

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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WO#: 2307B06 03-Aug-23

| Client: Devon                  | Energy      |                   |           |             |                  |           |              |           |          |      |
|--------------------------------|-------------|-------------------|-----------|-------------|------------------|-----------|--------------|-----------|----------|------|
| Project: Laguna                | Salado 22 I | Federal           | 4         |             |                  |           |              |           |          |      |
| Sample ID: MB-76487            | SampT       | уре: МЕ           | BLK       | Tes         | tCode: EF        | PA Method | 8015M/D: Die | sel Range | Organics |      |
| Client ID: PBS                 | Batch       | n ID: <b>76</b> 4 | 187       | F           | RunNo: <b>98</b> | 3583      |              |           |          |      |
| Prep Date: 7/26/2023           | Analysis E  | Date: 7/2         | 28/2023   | S           | SeqNo: 3         | 589776    | Units: mg/K  | g         |          |      |
| Analyte                        | Result      | PQL               | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND          | 10                |           |             |                  |           |              |           |          |      |
| Motor Oil Range Organics (MRO) | ND          | 50                |           |             |                  |           |              |           |          |      |
| Surr: DNOP                     | 9.5         |                   | 10.00     |             | 95.4             | 69        | 147          |           |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2307B06

03-Aug-23

WO#:

**Client:** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| Project:                   | Laguna Sa        | alado 22 F  | ederal         | 4              |             |                 |           |             |            |          |      |
|----------------------------|------------------|-------------|----------------|----------------|-------------|-----------------|-----------|-------------|------------|----------|------|
| Sample ID:                 | lcs-76462        | SampT       | ype: <b>LC</b> | S              | Tes         | tCode: EF       | PA Method | 8015D: Gaso | line Range |          |      |
| Client ID:                 | LCSS             | Batch       | ID: 764        | 62             | R           | unNo: <b>98</b> | 3551      |             |            |          |      |
| Prep Date:                 | 7/26/2023        | Analysis Da | ate: 7/2       | 27/2023        | S           | eqNo: 35        | 588303    | Units: mg/K | g          |          |      |
| Analyte                    |                  | Result      | PQL            | SPK value      | SPK Ref Val | %REC            | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
|                            | e Organics (GRO) | 22          | 5.0            | 25.00          | 0           | 86.0            | 70        | 130         |            |          |      |
| Surr: BFB                  |                  | 1900        |                | 1000           |             | 192             | 15        | 244         |            |          |      |
| Sample ID:                 | mb-76462         | SampT       | ype: <b>ME</b> | LK             | Tes         | tCode: EF       | PA Method | 8015D: Gaso | line Range |          |      |
| Client ID:                 | PBS              | Batch       | ID: 764        | 62             | R           | unNo: <b>98</b> | 3551      |             |            |          |      |
| Prep Date:                 | 7/26/2023        | Analysis Da | ate: 7/2       | 27/2023        | S           | eqNo: 35        | 588304    | Units: mg/K | g          |          |      |
| Analyte                    |                  | Result      | PQL            | SPK value      | SPK Ref Val | %REC            | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| -                          | e Organics (GRO) | ND          | 5.0            | 1000           |             | ~~ 7            |           |             |            |          |      |
| Surr: BFB                  |                  | 970         |                | 1000           |             | 96.7            | 15        | 244         |            |          | 1    |
| Sample ID:                 | lcs-76468        | SampT       | ype: LC        | S              | Tes         | tCode: EF       | PA Method | 8015D: Gaso | line Range |          |      |
| Client ID:                 | LCSS             | Batch       | ID: 764        | 68             | R           | unNo: <b>98</b> | 3596      |             |            |          |      |
| Prep Date:                 | 7/26/2023        | Analysis Da | ate: 7/2       | 28/2023        | S           | eqNo: 35        | 590488    | Units: mg/K | g          |          |      |
| Analyte                    |                  | Result      | PQL            | SPK value      | SPK Ref Val | %REC            | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| -                          | e Organics (GRO) | 24          | 5.0            | 25.00          | 0           | 95.8            | 70        | 130         |            |          |      |
| Surr: BFB                  |                  | 2000        |                | 1000           |             | 199             | 15        | 244         |            |          |      |
| Sample ID:                 | mb-76468         | SampT       | ype: <b>ME</b> | LK             | Tes         | tCode: EF       | PA Method | 8015D: Gaso | line Range |          |      |
| Client ID:                 | PBS              | Batch       | ID: 764        | 168            | R           | unNo: 98        | 3596      |             |            |          |      |
| Prep Date:                 | 7/26/2023        | Analysis Da | ate: 7/2       | 28/2023        | S           | eqNo: 35        | 590489    | Units: mg/K | g          |          |      |
| Analyte                    |                  | Result      | PQL            | SPK value      | SPK Ref Val | %REC            | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| Gasoline Rang<br>Surr: BFB | e Organics (GRO) | ND<br>850   | 5.0            | 1000           |             | 85.1            | 15        | 244         |            |          |      |
| -                          |                  |             |                |                |             |                 |           |             |            |          |      |
|                            | 2307B06-015ams   | SampT       |                |                |             |                 |           | 8015D: Gaso | line Range |          |      |
| Client ID:                 | BH23-15 3.0'     |             | ID: 764        |                |             | unNo: 98        |           |             |            |          |      |
| Prep Date:                 | 7/26/2023        | Analysis Da | ate: 7/2       | 28/2023        | 5           | eqNo: 35        | 590492    | Units: mg/K | g          |          |      |
| Analyte                    | 0 (000)          | Result      | PQL            | SPK value      |             | %REC            | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| Gasoline Rang<br>Surr: BFB | e Organics (GRO) | 21<br>1800  | 4.8            | 23.88<br>955.1 | 0           | 86.1<br>184     | 70<br>15  | 130<br>244  |            |          |      |
|                            |                  |             |                |                |             |                 |           |             |            |          | 1    |
|                            | 2307B06-015amsd  | SampTy      |                |                |             |                 |           | 8015D: Gaso | line Range |          |      |
| Client ID:                 | BH23-15 3.0'     |             | ID: 764        |                |             | unNo: 98        |           |             | · _        |          |      |
| Prep Date:                 | 7/26/2023        | Analysis Da |                |                |             | eqNo: 35        |           | Units: mg/K | •          |          |      |
| Analyte                    |                  | Result      | PQL            | SPK value      | SPK Ref Val | %REC            | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |

Qualifiers:

Value exceeds Maximum Contaminant Level. \*

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit 2307B06

03-Aug-23

WO#:

**Client:** 

**Project:** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

| Sample ID: 2307B06-015amsc  |                                  |   |                                 | TestCode: EPA Method 8015D: Gasoline Range |                           |                                     |                                   |           |          |      |
|---|----------------------------------|---|---------------------------------|--|---------------------------|-------------------------------------|-----------------------------------|-----------|----------|------|
| Client ID: BH23-15 3.0'   | Batch                            | n ID: <b>76</b> 4                           | 468                             | F  | RunNo: <b>9</b> 8         | 8596                                |                                   |           |          |      |
| Prep Date: 7/26/2023  | Analysis D                       | ate: 7/2                                    | 28/2023                         | S  | SeqNo: 3                  | 590493                              | Units: mg/Kg                      | g         |          |      |
| Analyte   | Result                           | PQL   | SPK value                       | SPK Ref Val                                | %REC                      | LowLimit                            | HighLimit                         | %RPD      | RPDLimit | Qual |
| Gasoline Range Organics (GRO)   | 21                               | 4.8   | 23.97                           | 0  | 86.8                      | 70                                  | 130                               | 1.26      | 20       |      |
| Surr: BFB   | 1900                             |   | 958.8                           |  | 198                       | 15                                  | 244                               | 0         | 0        |      |
| Sample ID: Ics-76457  | SampT                            | ype: LC                                     | S                               | Tes  | tCode: El                 | PA Method                           | 8015D: Gasoli                     | ine Range | •        |      |
| Client ID: LCSS   | Batch                            | n ID: <b>76</b> 4                           | 457                             | F  | RunNo: <b>9</b> 8         | 8596                                |                                   |           |          |      |
|   |                                  |   |                                 |  |                           |                                     |                                   |           |          |      |
| Prep Date: 7/25/2023  | Analysis D                       | ate: 7/2                                    | 28/2023                         | S  | SeqNo: 3                  | 590513                              | Units: %Rec                       |           |          |      |
| Prep Date: <b>7/25/2023</b><br>Analyte                                      | Analysis D<br>Result             | ate: <b>7/</b> 2<br>PQL                     | <b>28/2023</b><br>SPK value     | SPK Ref Val                                | SeqNo: <b>3</b> !<br>%REC | 590513<br>LowLimit                  | Units: <b>%Rec</b><br>HighLimit   | %RPD      | RPDLimit | Qual |
|   |                                  |   |                                 |  | •                         |                                     |                                   |           | RPDLimit | Qual |
| Analyte   | Result<br>2000                   |   | SPK value<br>1000               | SPK Ref Val                                | %REC<br>197               | LowLimit<br>15                      | HighLimit                         | %RPD      |          | Qual |
| Analyte<br>Surr: BFB  | Result<br>2000<br>SampT          | PQL   | SPK value<br>1000<br>BLK        | SPK Ref Val                                | %REC<br>197               | LowLimit<br>15<br>PA Method         | HighLimit<br>244                  | %RPD      |          | Qual |
| Analyte<br>Surr: BFB<br>Sample ID: <b>mb-76457</b>                          | Result<br>2000<br>SampT          | PQL<br>Type: <b>ME</b><br>n ID: <b>76</b> 4 | SPK value<br>1000<br>BLK<br>457 | SPK Ref Val<br>Tes                         | %REC<br>197<br>tCode: Ef  | LowLimit<br>15<br>PA Method<br>3596 | HighLimit<br>244                  | %RPD      |          | Qual |
| Analyte<br>Surr: BFB<br>Sample ID: <b>mb-76457</b><br>Client ID: <b>PBS</b> | Result<br>2000<br>SampT<br>Batch | PQL<br>Type: <b>ME</b><br>n ID: <b>76</b> 4 | SPK value<br>1000<br>BLK<br>457 | SPK Ref Val<br>Tes<br>F                    | %REC<br>197<br>tCode: EF  | LowLimit<br>15<br>PA Method<br>3596 | HighLimit<br>244<br>8015D: Gasoli | %RPD      |          | Qual |

Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е
- J

Above Quantitation Range/Estimated Value

- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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- WO#: 2307B06
- 03-Aug-23

**Client:** 

**Project:** 

Sample ID: LCS-76462

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Federal 4

SampType: LCS

|  |  |  | <i>// =•</i>  | -  |   |  |  |  |                          |          |      |
|--|--|--|---|--|---|--|--|--|--------------------------|----------|------|
| Client ID: L   | LCSS   | Batch  | n ID: <b>76</b> 4   | 162  | F   | RunNo: <b>98</b>   | 8551   |  |                          |          |      |
| Prep Date:   | 7/26/2023  | Analysis D   | ate: 7/2  | 27/2023  | S   | SeqNo: 3   | 588339   | Units: mg/K  | g                        |          |      |
| Analyte  |  | Result   | PQL   | SPK value  | SPK Ref Val   | %REC   | LowLimit   | HighLimit  | %RPD                     | RPDLimit | Qual |
| Benzene  |  | 0.92   | 0.025   | 1.000  | 0   | 92.4   | 70   | 130  |                          |          |      |
| Toluene  |  | 0.93   | 0.050   | 1.000  | 0   | 93.2   | 70   | 130  |                          |          |      |
| Ethylbenzene   |  | 0.95   | 0.050   | 1.000  | 0   | 95.2   | 70   | 130  |                          |          |      |
| Xylenes, Total   |  | 2.9  | 0.10  | 3.000  | 0   | 96.4   | 70   | 130  |                          |          |      |
| Surr: 4-Bromo  | ofluorobenzene   | 1.2  |   | 1.000  |   | 117  | 39.1   | 146  |                          |          |      |
| Sample ID: r   | mb-76462   | SampT  | уре: МВ   | BLK  | Tes   | tCode: EF  | PA Method  | 8021B: Volati  | iles                     |          |      |
| Client ID: F   | PBS  | Batch  | n ID: <b>76</b> 4   | 162  | F   | RunNo: <b>98</b>   | 8551   |  |                          |          |      |
| Prep Date:   | 7/26/2023  | Analysis D   | ate: 7/2  | 27/2023  | Ş   | SeqNo: 3   | 588340   | Units: mg/K  | ſg                       |          |      |
| Analyte  |  | Result   | PQL   | SPK value  | SPK Ref Val   | %REC   | LowLimit   | HighLimit  | %RPD                     | RPDLimit | Qual |
| Benzene  |  | ND   | 0.025   |  |   |  |  |  |                          |          |      |
| Toluene  |  | ND   | 0.050   |  |   |  |  |  |                          |          |      |
| Ethylbenzene   |  | ND   | 0.050   |  |   |  |  |  |                          |          |      |
| Xylenes, Total   |  | ND   | 0.10  |  |   |  |  |  |                          |          |      |
| Surr 4-Bromo   | ofluorobenzene   | 1.2  |   | 1.000  |   | 118  | 39.1   | 146  |                          |          |      |
|  |  |  |   |  |   |  |  |  |                          |          |      |
| Sample ID: 1   | lcs-76468  | SampT  | ype: LC   | s  | Tes   | stCode: EF   | PA Method  | 8021B: Volati  | iles                     |          |      |
| Sample ID: 1   | lcs-76468<br>LCSS                                      | •  | ype: LC   |  |   | tCode: EF  |  | 8021B: Volati  | iles                     |          |      |
| Sample ID: In<br>Client ID: L  |  | •  | n ID: <b>76</b> 4   | 168  | F   |  | 8596   | 8021B: Volati<br>Units: mg/K   |                          |          |      |
| Sample ID: In<br>Client ID: L  | LCSS   | Batch  | n ID: <b>76</b> 4   | 168  | F   | RunNo: <b>98</b>   | 8596   |  |                          | RPDLimit | Qual |
| Sample ID: In<br>Client ID: I<br>Prep Date:  | LCSS   | Batch<br>Analysis D  | n ID: <b>76</b> 4<br>Date: <b>7/2</b>   | 168<br>28/2023   | F   | RunNo: <b>98</b><br>SeqNo: <b>38</b>   | 3596<br>590566   | Units: <b>mg/K</b>   | g                        | RPDLimit | Qual |
| Sample ID: In<br>Client ID: L<br>Prep Date:<br>Analyte   | LCSS   | Batch<br>Analysis D<br>Result  | Date: 7/2<br>PQL  | <b>468</b><br>28/2023<br>SPK value   | F<br>SPK Ref Val                                      | RunNo: 98<br>SeqNo: 38<br>%REC   | 8596<br>590566<br>LowLimit   | Units: <b>mg/K</b><br>HighLimit  | g                        | RPDLimit | Qual |
| Sample ID: I<br>Client ID: L<br>Prep Date:<br>Analyte<br>Benzene   | LCSS   | Batch<br>Analysis D<br>Result<br>0.87  | Date: 7/2<br>PQL<br>0.025   | 468<br>28/2023<br>SPK value<br>1.000   | F<br>SPK Ref Val<br>0                                 | RunNo: 98<br>SeqNo: 38<br>%REC<br>87.5   | <b>3596</b><br>5 <b>90566</b><br>LowLimit<br>70  | Units: <b>mg/K</b><br>HighLimit<br>130                                       | g                        | RPDLimit | Qual |
| Sample ID: I<br>Client ID: I<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene  | LCSS   | Batch<br>Analysis D<br>Result<br>0.87<br>0.88  | Date: 7/2<br>PQL<br>0.025<br>0.050  | 468<br>28/2023<br>SPK value<br>1.000<br>1.000  | F<br>SPK Ref Val<br>0<br>0                            | RunNo: 98<br>SeqNo: 38<br><u>%REC</u><br>87.5<br>88.5  | <b>3596</b><br>590566<br>LowLimit<br>70<br>70  | Units: <b>mg/K</b><br>HighLimit<br>130<br>130                                | g                        | RPDLimit | Qual |
| Sample ID: I<br>Client ID: I<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total  | LCSS   | Batch<br>Analysis D<br>Result<br>0.87<br>0.88<br>0.90  | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050   | 468<br>28/2023<br>SPK value<br>1.000<br>1.000<br>1.000                                   | F<br>SPK Ref Val<br>0<br>0<br>0                       | RunNo: 98<br>SeqNo: 38<br><u>%REC</u><br>87.5<br>88.5<br>90.5  | 3596<br>590566<br>LowLimit<br>70<br>70<br>70   | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130                         | g                        | RPDLimit | Qual |
| Sample ID: I<br>Client ID: I<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total  | LCSS<br>7/26/2023<br>ofluorobenzene                    | Batch<br>Analysis D<br>Result<br>0.87<br>0.88<br>0.90<br>2.7<br>0.82   | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050   | 468<br>28/2023<br>SPK value<br>1.000<br>1.000<br>1.000<br>3.000<br>1.000                 | F<br>SPK Ref Val<br>0<br>0<br>0<br>0                  | RunNo: 98<br>SeqNo: 38<br>%REC<br>87.5<br>88.5<br>90.5<br>90.8<br>82.1   | <b>5996</b><br>590566<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1                                  | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130<br>130                  | <b>g</b><br>%RPD         | RPDLimit | Qual |
| Sample ID: I<br>Client ID: I<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromo   | LCSS<br>7/26/2023<br>ofluorobenzene                    | Batch<br>Analysis D<br>Result<br>0.87<br>0.88<br>0.90<br>2.7<br>0.82<br>SampT  | PQL<br>0.025<br>0.050<br>0.050<br>0.10  | 468<br>28/2023<br>SPK value<br>1.000<br>1.000<br>3.000<br>1.000<br>8LK                   | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes      | RunNo: 98<br>SeqNo: 38<br>%REC<br>87.5<br>88.5<br>90.5<br>90.8<br>82.1   | <b>3596</b><br><b>590566</b><br>LowLimit<br>70<br>70<br>70<br>70<br>70<br>39.1<br><b>PA Method</b> | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146           | <b>g</b><br>%RPD         | RPDLimit | Qual |
| Sample ID: II<br>Client ID: I<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromo<br>Sample ID: r<br>Client ID: F                                      | LCSS<br>7/26/2023<br>ofluorobenzene<br>mb-76468        | Batch<br>Analysis D<br>Result<br>0.87<br>0.88<br>0.90<br>2.7<br>0.82<br>SampT  | PQL<br>0.025<br>0.050<br>0.050<br>0.10  | 468<br>28/2023<br>SPK value<br>1.000<br>1.000<br>3.000<br>1.000<br>SLK<br>468            | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>F      | RunNo: 98<br>SeqNo: 38<br>%REC<br>87.5<br>88.5<br>90.5<br>90.8<br>82.1   | 3596<br>590566<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>3596                          | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146           | íg<br>%RPD<br>iles       | RPDLimit | Qual |
| Sample ID: II<br>Client ID: I<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromo<br>Sample ID: r<br>Client ID: F                                      | LCSS<br>7/26/2023<br>ofluorobenzene<br>mb-76468<br>PBS | Batch<br>Analysis D<br>Result<br>0.87<br>0.88<br>0.90<br>2.7<br>0.82<br>SampT<br>Batch                                     | PQL<br>0.025<br>0.050<br>0.050<br>0.10  | 468<br>28/2023<br>SPK value<br>1.000<br>1.000<br>3.000<br>1.000<br>SLK<br>468<br>28/2023 | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>F      | RunNo: 98<br>SeqNo: 38<br>%REC<br>87.5<br>88.5<br>90.5<br>90.8<br>82.1<br>stCode: EF                           | 3596<br>590566<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>3596                          | Units: mg/K<br>HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati | íg<br>%RPD<br>iles       | RPDLimit | Qual |
| Sample ID: II<br>Client ID: II<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromo<br>Sample ID: r<br>Client ID: F<br>Prep Date:                       | LCSS<br>7/26/2023<br>ofluorobenzene<br>mb-76468<br>PBS | Batch<br>Analysis D<br>Result<br>0.87<br>0.88<br>0.90<br>2.7<br>0.82<br>SampT<br>Batch<br>Analysis D<br>Result<br>ND       | PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>vype: ME<br>1D: 764<br>pate: 7/2<br>PQL<br>0.025          | 468<br>28/2023<br>SPK value<br>1.000<br>1.000<br>3.000<br>1.000<br>SLK<br>468<br>28/2023 | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F | RunNo: 98<br>SeqNo: 38<br>%REC<br>87.5<br>88.5<br>90.5<br>90.8<br>82.1<br>stCode: EF<br>RunNo: 98<br>SeqNo: 38 | 3596<br>590566<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>3596<br>590567                | Units: mg/K<br>HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati | Sg<br>%RPD<br>iles<br>Sg |          |      |
| Sample ID: I<br>Client ID: I<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromo<br>Sample ID: r<br>Client ID: F<br>Prep Date:<br>Analyte              | LCSS<br>7/26/2023<br>ofluorobenzene<br>mb-76468<br>PBS | Batch<br>Analysis D<br>Result<br>0.87<br>0.88<br>0.90<br>2.7<br>0.82<br>SampT<br>Batch<br>Analysis D<br>Result<br>ND<br>ND | PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: ME<br>0.1D: 764<br>0.025<br>0.025<br>0.025<br>0.050 | 468<br>28/2023<br>SPK value<br>1.000<br>1.000<br>3.000<br>1.000<br>SLK<br>468<br>28/2023 | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F | RunNo: 98<br>SeqNo: 38<br>%REC<br>87.5<br>88.5<br>90.5<br>90.8<br>82.1<br>stCode: EF<br>RunNo: 98<br>SeqNo: 38 | 3596<br>590566<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>3596<br>590567                | Units: mg/K<br>HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati | Sg<br>%RPD<br>iles<br>Sg |          |      |
| Sample ID: II<br>Client ID: II<br>Prep Date:<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromo<br>Sample ID: r<br>Client ID: F<br>Prep Date:<br>Analyte<br>Benzene | LCSS<br>7/26/2023<br>ofluorobenzene<br>mb-76468<br>PBS | Batch<br>Analysis D<br>Result<br>0.87<br>0.88<br>0.90<br>2.7<br>0.82<br>SampT<br>Batch<br>Analysis D<br>Result<br>ND       | PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>vype: ME<br>1D: 764<br>pate: 7/2<br>PQL<br>0.025          | 468<br>28/2023<br>SPK value<br>1.000<br>1.000<br>3.000<br>1.000<br>SLK<br>468<br>28/2023 | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F | RunNo: 98<br>SeqNo: 38<br>%REC<br>87.5<br>88.5<br>90.5<br>90.8<br>82.1<br>stCode: EF<br>RunNo: 98<br>SeqNo: 38 | 3596<br>590566<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>3596<br>590567                | Units: mg/K<br>HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati | Sg<br>%RPD<br>iles<br>Sg |          |      |

TestCode: EPA Method 8021B: Volatiles

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

Surr: 4-Bromofluorobenzene

S % Recovery outside of standard limits. If undiluted results may be estimated.

0.80

B Analyte detected in the associated Method Blank

80.4

39.1

146

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

1.000

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WO#: 2307B06

03-Aug-23

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Page | <i>145</i> | of 351 |
|------|------------|--------|
|------|------------|--------|

03-Aug-23

| Client:<br>Project: | Devon En<br>Laguna Sa   | 0.         | Federal                               | 4         |             |                     |           |                |      |          |      |
|---------------------|---|------------|---------------------------------------|-----------|-------------|---------------------|-----------|----------------|------|----------|------|
| Sample ID:          | 2307B06-016ams  | Tes        | TestCode: EPA Method 8021B: Volatiles |           |             |                     |           |                |      |          |      |
| Client ID:          | BH23-16 0.0'  | Batcl      | h ID: <b>76</b> 4                     | 168       | F           | RunNo: 9            | 8596      |                |      |          |      |
| Prep Date:          | 7/26/2023   | Analysis [ | Date: 7/2                             | 28/2023   | S           | SeqNo: 3            | 590572    | Units: mg/Kg   | 9    |          |      |
| Analyte             |   | Result     | PQL                                   | SPK value | SPK Ref Val | %REC                | LowLimit  | HighLimit      | %RPD | RPDLimit | Qual |
| Benzene             |   | 0.83       | 0.025                                 | 0.9843    | 0           | 84.7                | 70        | 130            |      |          |      |
| Toluene             |   | 0.86       | 0.049                                 | 0.9843    | 0           | 87.4                | 70        | 130            |      |          |      |
| Ethylbenzene        |   | 0.89       | 0.049                                 | 0.9843    | 0           | 90.5                | 70        | 130            |      |          |      |
| Xylenes, Total      |   | 2.7        | 0.098                                 | 2.953     | 0           | 91.1                | 70        | 130            |      |          |      |
| Surr: 4-Brom        | ofluorobenzene  | 0.80       |                                       | 0.9843    |             | 80.9                | 39.1      | 146            |      |          |      |
| Sample ID:          | ample ID: 2307B06-016amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles |            |                                       |           |             |                     |           |                |      |          |      |
| Client ID:          | BH23-16 0.0'  | Batcl      | h ID: <b>76</b> 4                     | 168       | F           | RunNo: <b>98596</b> |           |                |      |          |      |
| Prep Date:          | 7/26/2023   | Analysis [ | Date: 7/2                             | 28/2023   | S           | SeqNo: 3            | 590573    | Units: mg/Kg   | 9    |          |      |
| Analyte             |   | Result     | PQL                                   | SPK value | SPK Ref Val | %REC                | LowLimit  | HighLimit      | %RPD | RPDLimit | Qual |
| Benzene             |   | 0.86       | 0.025                                 | 0.9852    | 0           | 87.5                | 70        | 130            | 3.34 | 20       |      |
| Toluene             |   | 0.88       | 0.049                                 | 0.9852    | 0           | 89.6                | 70        | 130            | 2.53 | 20       |      |
| Ethylbenzene        |   | 0.92       | 0.049                                 | 0.9852    | 0           | 93.3                | 70        | 130            | 3.17 | 20       |      |
| Xylenes, Total      |   | 2.8        | 0.099                                 | 2.956     | 0           | 93.5                | 70        | 130            | 2.64 | 20       |      |
| Surr: 4-Brom        | ofluorobenzene  | 0.78       |                                       | 0.9852    |             | 79.5                | 39.1      | 146            | 0    | 0        |      |
| Sample ID:          | lcs-76457   | SampT      | Type: LC                              | S         | Tes         | tCode: El           | PA Method | 8021B: Volatil | es   |          |      |
| Client ID:          | LCSS  | Batcl      | h ID: <b>76</b> 4                     | 157       | F           | RunNo: <b>9</b> 8   | 8596      |                |      |          |      |
| Prep Date:          | 7/25/2023   | Analysis I | Date: 7/2                             | 28/2023   | S           | SeqNo: 3            | 590592    | Units: %Rec    |      |          |      |
| Analyte             |   | Result     | PQL                                   | SPK value | SPK Ref Val | %REC                | LowLimit  | HighLimit      | %RPD | RPDLimit | Qual |
| Surr: 4-Brom        | ofluorobenzene  | 0.80       |                                       | 1.000     |             | 80.3                | 39.1      | 146            |      |          |      |
| Sample ID:          | mb-76457  | Samp       | Гуре: МВ                              | BLK       | Tes         | tCode: Ef           | PA Method | 8021B: Volatil | es   |          |      |
| Client ID:          | PBS   | Batcl      | h ID: <b>76</b> 4                     | 157       | F           | RunNo: <b>9</b>     | 8596      |                |      |          |      |
| Prep Date:          | 7/25/2023   | Analysis E | Date: 7/2                             | 28/2023   | S           | SeqNo: 3            | 590593    | Units: %Rec    |      |          |      |
| Analyte             |   | Result     | PQL                                   | SPK value | SPK Ref Val | %REC                | LowLimit  | HighLimit      | %RPD | RPDLimit | Qual |
| Surr: 4-Brom        | ofluorobenzene  | 0.79       |                                       | 1.000     |             | 79.0                | 39.1      | 146            |      |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

| ANA                          | L<br>VIRONMENTA<br>ALYSIS<br>ORATORY   | AL.            | TEL:             | 505-345-397                  | Analysis Labo<br>4901 Hawk<br>uquerque. NM<br>5 FAX: 505-34,<br>allenvironment | ins NE<br>87109<br>5-4107 | Sample Log-In Check List |                |                 |  |  |  |
|------------------------------|--|----------------|------------------|------------------------------|--|---------------------------|--------------------------|----------------|-----------------|--|--|--|
| Client Name                  | Devon Ener                             | ſġŷ            | Work C           | order Number                 | : 2307B06  |                           |                          | RcptNo: 1      |                 |  |  |  |
| Received By<br>Completed B   | ,                                      |                |                  | 3 7:10:00 AM<br>3 7:22:20 AM |  | Chem<br>Chem              | l<br>l                   |                |                 |  |  |  |
| Reviewed By                  | Scm c                                  | 7 25/2         | 3                |                              |  |                           |                          |                |                 |  |  |  |
| Chain of C                   | ustody                                 |                |                  |                              |  |                           |                          |                |                 |  |  |  |
| 1. Is Chain o                | f Custody comp                         | lete?          |                  |                              | Yes 🗹  | N                         | o 🗌                      | Not Present    |                 |  |  |  |
| 2. How was                   | the sample deliv                       | ered?          |                  |                              | <u>Courier</u>   |                           |                          |                |                 |  |  |  |
| <u>Log In</u><br>3. Was an a | tempt made to d                        | cool the samp  | les?             |                              | Yes 🗹  | N                         | •                        |                |                 |  |  |  |
| 4. Were all s                | amples received                        | at a tempera   | ature of >0°C to | 6.0°C                        | Yes 🗹  | N                         | •                        |                |                 |  |  |  |
|                              | ) in proper conta                      |                | ~                |                              | Yes 🗹  | N                         | •                        |                |                 |  |  |  |
| 6. Sufficient                | sample volume f                        | or indicated t | est(s)?          |                              | Yes 🗹  | No                        | <b>b</b>                 |                |                 |  |  |  |
|                              | es (except VOA                         |                |                  | 17                           | Yes 🗹  | No                        | <b>b</b>                 |                |                 |  |  |  |
|                              | ervative added to                      |                | openy precerve.  |                              | Yes  |                           |                          | NA 🗌           |                 |  |  |  |
| 9. Received                  | at least 1 vial wit                    | h headspace    | <1/4" for AQ V   | DA?                          | Yes 🗌  | No                        | <b>b</b> []              | NA 🔽           |                 |  |  |  |
| 10. Were any                 | sample contain                         | ers received b | oroken?          |                              | Yes 🗌  | N                         | o 🗹                      | # of preserved |                 |  |  |  |
|                              | erwork match bo<br>repancies on ch     |                | y)               |                              | Yes 🔽  | No                        | •                        |                | 2 unless noted) |  |  |  |
| 12. Are matric               | es correctly ider                      | ntified on Cha | in of Custody?   |                              | Yes 🗹  | No                        | o 🗌                      | Adjusted?      |                 |  |  |  |
| 13. Is it clear              | what analyses w                        | ere requested  | d?               |                              | Yes 🗹  | N                         | o 🗌                      |                | -laulas         |  |  |  |
|                              | olding times able<br>fy customer for a |                | )                |                              | Yes 🗹  | N                         | o 🗌                      | Checked by: Jh | 72523           |  |  |  |
|                              | ndling (if ap                          |                | ,<br>,           |                              |  |                           |                          |                |                 |  |  |  |
| 15. Was clier                | nt notified of all d                   | liscrepancies  | with this order? |                              | Yes  | N                         | lo 🗌                     | NA 🗹           |                 |  |  |  |
| Pei                          | son Notified:                          | J              |                  | Date:                        |  | and the second second     |                          |                |                 |  |  |  |
| By                           | Whom:                                  | ]              |                  | Via:                         | 🗌 eMail 🗌  | ] Phone [                 | 🗌 Fax                    | n Person       |                 |  |  |  |
|                              | garding:<br>ent Instructions:          | <br>           |                  |                              |  |                           |                          |                |                 |  |  |  |
| 16. Addition                 |  | a.             |                  |                              |  |                           |                          |                |                 |  |  |  |
| 17. <u>Cooler I</u>          | nformation                             |                |                  |                              |  |                           |                          |                |                 |  |  |  |
| Coole                        | ÷                                      | Condition      | Seal Intact      | Seal No                      | Seal Date  | Signe                     | d By                     |                |                 |  |  |  |
| 1                            | 4.6                                    | Good           | Not Present      | Yogi                         |  |                           |                          |                |                 |  |  |  |
| 2                            | 1.4                                    | Good           | Not Present      | Yogi                         |  |                           |                          |                |                 |  |  |  |
| 3                            | 0.5                                    | Good           | Not Present      |                              |  |                           |                          |                |                 |  |  |  |

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| Turn-Around Time:<br>Turn-Around Time:<br>Project Name:<br>Leyun Saledo 22 F<br>Project Manager:<br>Project Manager:<br>Project Manager:<br>Project Manager:<br>Project Manager:<br>Project Manager:<br>Project Manager:<br>Container Preservative<br>Type and # Type<br>Type   | Turn-Around Time:       Hall ENVIR         Turn-Around Time:       Anal YSIS L         Available:       Anal YSIS L         Project Name:       Anal YSIS L         Avw.hallenvironmental       Avw.hallenvironmental         Project Name:       Anal YSIS L         Project Manager:       Analysis Required   |
|---|--|
| Deven     Deven     Exampler       Address:     Direct Br/l     Project Name:       Address:     Project Name:       Package:     Project Name       Package:     Project Manager:       Addres:     Project Manager:       Addres:     Project Manager:       Package:     Project Manager:       Addres:     Project Manager:       Addres: <t< th=""><th>ZechandardZechandardZechandardZechandardZechandardProject Name:<math>uww.hallenvironmentLegunSole de 22 Feder / #4Project #:<math>23E - 0/4/4</math>Project Manager:<math>n/1/4</math>Project Manager:<math>n/1/4</math></math></th></t<>   | ZechandardZechandardZechandardZechandardZechandardProject Name: $uww.hallenvironmentLegunSole de 22 Feder / #4Project #:23E - 0/4/4Project Manager:n/1/4Project Manager:n/1/4$   |
| Direct     Br (I)     Project Name:       Address:     Address:     Project Name:       Address:     Project H: $2 - 6 u$ Address:     Project H: $2 - 6 u$ Fax#:     Project Manager: $4 - 6 u$ Package:     Direct     Ren       Addres     Container     Preser       Time     Matrix     Sample Name     Type and #       Time     Matrix     Sample Name     Type and #       Disco     Si     Si     Container       Disco     Si     Si     Container       Disco     Si     Si     Container       Disco     Si     Si     Container       Disco     Si     Si     Container <tr< th=""><th>6 22 Feder / サリ 4901 Hawkins NE - 4901 Hawkins NE - 10/4/14 Tel. 505-345-3975 Tel. 505-345-3975 An An</th></tr<>   | 6 22 Feder / サリ 4901 Hawkins NE - 4901 Hawkins NE - 10/4/14 Tel. 505-345-3975 Tel. 505-345-3975 An   |
| Address:       Address:       Project #: $23 \pounds - 0!$ #:       Project #: $23 \pounds - 0!$ #:       Project #: $23 \pounds - 0!$ Package:       Dackage:         Package:       Dackage:         Package:       Dackage:         Package:       Dackage:         Package:       Dackage:         Package:       Dologet Manager:         Address:       Dologet Manager:         Ac       Dologet Manager:         AC       On loc:         AC       Other         AC       Other         AC       Other         AC       Other         AC       Other         AC       Other         AC       Dologet Manager:         AC       Dologet Manager:         AC       Dolofer         AC       Dolofer         AC       Sampler:         AC       Dolofer         AC       Sampler:         AC       Dolofer         Time       Matrix         Matrix       Sample         Dolofer       Container         Packo       Container         Dolofer       Container   | 4901 Hawkins NE - 4901 Hawkins NE - 761. 505-345-3975  |
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| Fax#:       Froject Manager:         Fax#:       Project Manager:         Package:       Level 4 (Full Validation)         adrd       Dackage:         dard       Dackage:         dard       Dackage:         ration:       Dackage:         Add       Dackage:         Add       Dackage:         Add       Dackage:         Ac       Dother         AC       Other         AC       Other         AC       Other         AC       Other         AC       Dother         Time       Matrix         Sample Name       Type and #         Time       Matrix         DBIO       S.C         DBIO       S.S         DBSO       S.S         DBSO       S.S         DBSO       S.S         DSO       S.S         DSO       S.S         DSO       S.S <td></td>  |  |
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| Package:  |  |
| dard     Level 4 (Full valueation)     Sampler:     MV       tation:     Ac     D ther     Sampler:     MV       AC     D other     Preservative     Preservative       AC     D other     Cooler Temp(instuding cf); Sec       Time     Matrix     Sample Name     Container       Time     Matrix     Sample Name     Container       D8to     Set/     RM23 - 10     2,0       D82o     Set/23 - 10     2,0     7,0       D82o     SH23 - 10     2,0     7,0       D82o     SH23 - 10     2,0     7,0       D82o     SH23 - 10     2,0     7,0   |  |
| tation: $\Box$ Az Compliance Samper. Version Contractions of Cont |  |
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| Time     Matrix     Sample Name     Cooler Temp(Including cF): Secondariantic secondarianti secondaris secondarianti secondariantic secondariantic secondaria  | Sersi S<br>Alterna Service Alterna<br>Service Alterna<br>Service Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna<br>Alterna |
| Time         Matrix         Sample Name         Container         Preservative           Oboo         Soi/         B/123 - 16         0.0         1/02         1.0E           OB10         Soi/         B/123 - 10         2.0         1.0E         1.0E           OB20         B/123 - 10         2.0         0.0         3.5         1.0E         1.0E           OB20         B/123 - 10         3.5         0.0         3.5         1.0E         1.0E           OB30         B/123 - 10         3.5         0.0         3.5         1.0E         1.0E  | uding CF): See Remarks (°C) N 55 est 10 8 M 56 F   |
| 0600 Seil 8423-10 0.0 402 10E<br>0810 Seil 8423-10 2.0 402 10E<br>0820 8423-10 2.0 8423-10 0.0 0830 0830 0830 0000 0.0 0.0  | Container Preservative<br>Type   |
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| BH23-10 3.5<br>BH23-11 D.0  |  |
| 121423-11 D.O   | 3.5  |
| RH23-11 2.0   | 0.0  |
|   | 2.0  |
|   | 6.0  |
| 0900 81+23-12 2.0   | 2.0  |
| B1423-13 0.0  | 0.0  |
| 6920 B1723 -12 2,0 290  | 2.0  |
| 0930 81423-14 0.0   | 0,0  |
| 1 0940 1 BH23-14 2,0 V V VII  | 20 1 1   |
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| HALL ENVIRONMENTAL<br>ANALYSIS LABORATORY<br>www.hallenvironmental.com<br>4901 Hawkins NE - Albuquerque, NM 87109<br>Tel. 505-345-3975 Fax 505-345-4107<br>Analysis Request  | EDB (Method 504.1)<br>PAHs by 8310 or 8270SIMS<br>RCRA 8 Metals<br>C()-F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub><br>8260 (VOA)<br>8270 (Semi-VOA)<br>Total Coliform (Present/Absent)                               |  |
|--|---|--|
| 4901 Hi<br>Tel. 50   | 1PH: 015D(GRO / DRO / MRO)<br>8081 Pesticides/8082 PCB's  |  |
|  | BTEX ) MTBE / TMB's (8021)  | Remarks:   |
| Turn-Around Time:<br>Standard <u>A Rush DDAM</u><br>Project Name:<br>Logune & Lade 22 Faderl #4<br>Project #:<br>23 E-01414  | Project Manager:<br>Kent Stellings<br>Sampler: At<br>On Ice: A Yes Do<br>On Ice: A Yes Do<br>Cooler Temp Containe cF): Sec. 15 page (°C)<br>Cooler Temp Containe CF): Sec. 15 page (°C)<br>Container Preservative HEAL No.<br>Type and # Type 2307806 | 1.CE 013<br>014<br>015<br>015<br>016<br>017<br>017<br>017<br>018<br>019<br>020<br>020<br>021<br>020<br>021<br>022<br>021<br>022<br>021<br>022<br>021<br>022<br>022   |
| Turn-Around T<br>Z Standard<br>Project Name:<br>Project #:   | Project Manager:<br><i>Hend</i> Sampler:<br>Sampler:<br>Sampler:<br>On Ice:<br># Yes<br># of Coolers:<br>Cooler Temp(molucing cF):<br>Container<br>Type and # Type  | 402<br>Hora  |
| 2  | dation)   | 00000000000000000000000000000000000000   |
| Chain-of-Custody Record  | □ Level 4 (Full Validation)<br>□ Az Compliance<br>□ Other<br>Matrix Sample Name   | So, ( 8423-15<br>8423-15<br>8423-15<br>8423-16<br>8423-16<br>8423-16<br>18423-17<br>18423-17<br>18423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18<br>8423-18   |
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| Client: Client | email or Fax#:<br>QA/QC Package:<br>C Standard<br>Accreditation:<br>DELAC<br>DEDD (Type)<br>Date Time   | 21-23 [  |

# **ATTACHMENT 5**

Client Name: Devon Energy Production Company, LP

Site Name: Laguna Salado 22 Federal #004H; Laguna Salado 22 Federal #005H; Spud 16 State #010

Projects #: 23E-01414-01; 23E-01414-02; 22E-01927; 23E-0857

Lab Reports: 2304962, 2304A19 ; 2308F18, 2309072; 2307983; 2208H98, 2304663; 2307083, 2305C87

|                        |                    | Table      | e 4. Background S                  | ield Screen and Laboratory Results - Depth to Groundwater <50 feet bgs |  |                        |          |                   |                                  |                                |                                   |             |                                       |                             |
|------------------------|--------------------|------------|------------------------------------|--|--|------------------------|----------|-------------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|-----------------------------|
|                        | Field Screening    |            |                                    | Petroleum Hydrocarbons   |  |                        |          |                   |                                  |                                |                                   |             |                                       |                             |
|                        |                    |            |                                    |  |  |                        | Vol      | atile             |                                  | ī                              | Extractable                       |             |                                       | Inorganic                   |
| Site                   | Sample ID          | Depth (ft) | Sample Date                        | Volatile Organic<br>Compounds (PID)                                    | Extractable Organic<br>Compounds (PetroFlag) | Chloride Concentration | Benzene  | ,<br>BTEX (Total) | Gasoline Range<br>Organics (GRO) | Diesel Range Organics<br>(DRO) | Motor Oil Range<br>Organics (MRO) | (GRO + DRO) | Total Petroleum<br>Hydrocarbons (TPH) | ,<br>Chloride Concentration |
|                        |                    | 0          | Amril 20, 2022                     | (ppm)  | (ppm)  | (ppm)                  | (mg/kg)  | (mg/kg)           | (mg/kg)                          | (mg/kg)                        | (mg/kg)                           | (mg/kg)     | (mg/kg)                               | (mg/kg)                     |
|                        |                    | 0          | April 20, 2023<br>April 20, 2023   | -  | -  | 0<br>4,355             | ND<br>ND | ND<br>ND          | ND<br>ND                         | ND<br>ND                       | ND<br>ND                          | ND<br>ND    | ND<br>ND                              | ND<br>1,300                 |
| 23E-01414-01 (Pad)     | BG23-01            | 4          | April 20, 2023                     | -  | -  | 1,425                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 880                         |
| 202 01 11 01 (1 00)    |                    | 6          | April 20, 2023                     | -  | -  | 2,094                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 1,000                       |
|                        |                    | 8          | April 21, 2023                     | -  | -  | 1,975                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | ND                          |
|                        |                    | 0          | April 21, 2023                     | -  | -  | 238                    | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | ND                          |
|                        |                    | 2          | April 21, 2023                     | -  | -  | 1,864                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 660                         |
| 23E-01414-01 (Pad)     | BG23-02            | 4          | April 21, 2023                     | -  | -  | 3,390                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 2,300                       |
|                        |                    | 6<br>8     | April 21, 2023<br>April 21, 2023   | -  | -  | 3,202<br>2,569         | ND<br>ND | ND<br>ND          | ND<br>ND                         | ND<br>ND                       | ND<br>ND                          | ND<br>ND    | ND<br>ND                              | 1,900<br>1,900              |
| I                      |                    | 8          | April 21, 2023<br>August 25, 2023  | -  | - 58   | 0                      | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | ND                          |
| 23E-01414-01           | BG23-01            | 2          | August 25, 2023                    | -  | 83   | 2,273                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 1,700                       |
| 225 01414 01           | PC22.02            | 0          | August 25, 2023                    | -  | 91   | 14                     | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | ND                          |
| 23E-01414-01           | BG23-02            | 2          | August 25, 2023                    | -  | 116  | 698                    | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 970                         |
| 23E-01414-01           | BG23-03            | 0          | August 25, 2023                    | -  | 202  | 28,598                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 17,000                      |
|                        |                    | 2          | August 25, 2023                    | -  | 86   | 5,293                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 4,900                       |
| 23E-01414-02           | BG23-01            | 0          | July 19, 2023                      | 0  | 64<br>77                                     | 1,590                  | ND<br>ND | ND<br>ND          | ND<br>ND                         | ND<br>ND                       | ND<br>ND                          | ND<br>ND    | ND<br>ND                              | 2,500<br>6,100              |
|                        |                    | 2          | July 19, 2023<br>July 19, 2023     | 0  | 76   | 4,789<br>28,378        | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 34,000                      |
| 23E-01414-02           | BG23-02            | 2          | July 19, 2023                      | 0  | 66   | 5,545                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 6,000                       |
|                        |                    | 0          | July 19, 2023                      | 0  | 75   | 656                    | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 970                         |
| 23E-01414-02           | BG23-03            | 2          | July 19, 2023                      | 0  | 69   | 190                    | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 620                         |
|                        |                    | 0          | August 29, 2022                    | -  | -  | 25,522                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 22,000                      |
| 22E-01927              | BG22-01            | 1          | August 29, 2022                    | -  | -  | 7,700                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 5,900                       |
|                        |                    | 2          | August 29, 2022                    | -  | -  | 4,792                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 7,000                       |
|                        |                    | 4          | August 29, 2022                    | -  | -  | 8,637                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 7,800                       |
| 22E-01927              | BG22-02            | 0          | August 29, 2022<br>August 29, 2022 | -  | -  | 7,692<br>4,755         | ND<br>ND | ND<br>ND          | ND<br>ND                         | ND<br>ND                       | ND<br>ND                          | ND<br>ND    | ND<br>ND                              | 7,000<br>3,800              |
| 222 01527              | 5022 02            | 2          | August 29, 2022<br>August 29, 2022 | -  | -  | 3,792                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 2,800                       |
| 225 01027              | BC22.02            | 0          | August 29, 2022                    | -  | -  | 12,782                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 16,000                      |
| 22E-01927              | BG22-03            | 1          | August 29, 2022                    | -  | -  | 10,865                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 13,000                      |
| 22E-01927              | SS23-01            | 0          | April 13, 2023                     | -  | -  | 8,177                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 5,200                       |
| 22E-01927              | SS23-02            | 0          | April 13, 2023                     | -  | -  | 28,728                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 7,600                       |
| 22E-01927              | SS23-03            | 0          | April 13, 2023                     | -  | -  | 28,724                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 31,000                      |
| 22E-01927<br>22E-01927 | SS23-04<br>SS23-05 | 0          | April 13, 2023<br>April 13, 2023   | -  | -  | 28,728<br>26,608       | ND<br>ND | ND<br>ND          | ND<br>ND                         | ND<br>ND                       | ND<br>ND                          | ND<br>ND    | ND<br>ND                              | 140,000<br>48,000           |
| 22E-01927<br>22E-01927 | SS23-03            | 0          | April 13, 2023<br>April 13, 2023   | -  | -  | 18,719                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 15,000                      |
| 22E-01927              | SS23-00            | 0          | April 13, 2023                     | -  | -  | 3,982                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 4,100                       |
| 22E-01927              | SS23-08            | 0          | April 13, 2023                     | -  | -  | 28,663                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 61,000                      |
| 22E-01927              | SS23-09            | 0          | April 13, 2023                     | -  | -  | 28,694                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 99,000                      |
| 22E-01927              | SS23-10            | 0          | April 13, 2023                     | -  | -  | 28,689                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 110,000                     |
| 22E-01927              | SS23-11            | 0          | April 13, 2023                     | -  | -  | 20,210                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 16,000                      |
| 22E-01927<br>22E-01927 | SS23-12            | 0          | April 13, 2023                     | -  | -  | 3,362<br>28,707        | ND<br>ND | ND<br>ND          | ND<br>ND                         | ND<br>ND                       | ND<br>ND                          | ND<br>ND    | ND<br>ND                              | 2,600<br>33,000             |
| 22E-01927<br>22E-01927 | SS23-13<br>SS23-14 | 0          | April 13, 2023<br>April 13, 2023   | -  | -  | 12,942                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 35,000                      |
| 22E-01927<br>22E-01927 | SS23-14<br>SS23-15 | 0          | April 13, 2023<br>April 13, 2023   | -  | -  | 24,892                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 17,000                      |
| 22E-01927              | SS23-16            | 0          | April 13, 2023                     | -  | -  | 5,335                  | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 5,200                       |
| 22E-01927              | SS23-17            | 0          | April 13, 2023                     | -  | -  | 581                    | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 530                         |
| 22E-01927              | SS23-18            | 0          | April 13, 2023                     | -  | -  | 28,724                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 43,000                      |
| 22E-01927              | SS23-19            | 0          | April 13, 2023                     | -  | -  | 27,064                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 59,000                      |
| 22E-01927              | SS23-20            | 0          | April 13, 2023                     | -  | -  | 25,588                 | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 33,000                      |
| 22E-01927              | SS23-21            | 0          | April 13, 2023                     | -  | -  | <b>2,700</b>           | ND       | ND                | ND<br>ND                         | ND                             | ND                                | ND          | ND                                    | <b>2,500</b>                |
| 22E-01927<br>22E-01927 | SS23-22<br>SS23-23 | 0          | April 13, 2023                     | -  | -  | 77<br>22,011           | ND<br>ND | ND<br>ND          | ND<br>ND                         | ND<br>ND                       | ND<br>ND                          | ND<br>ND    | ND<br>ND                              | 72<br>3,700                 |
| 22E-01927<br>22E-01927 | SS23-23<br>SS23-24 | 0          | April 13, 2023<br>April 13, 2023   | -  | -  | 4,451                  | ND<br>ND | ND                | ND<br>ND                         | ND                             | ND                                | ND          | ND<br>ND                              | 42,000                      |
| 22E-01927              | SS23-24            | 0          | April 13, 2023                     | -  | -  | 424                    | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | 1,700                       |
| 22E-01927              | SS23-26            | 0          | April 13, 2023                     | -  | -  | 145                    | ND       | ND                | ND                               | ND                             | ND                                | ND          | ND                                    | ND                          |



Client Name: Devon Energy Production Company, LP

Site Name: Laguna Salado 22 Federal #004H; Laguna Salado 22 Federal #005H; Spud 16 State #010

Projects #: 23E-01414-01; 23E-01414-02; 22E-01927; 23E-0857

Lab Reports: 2304962, 2304A19 ; 2308F18, 2309072; 2307983; 2208H98, 2304663; 2307083, 2305C87

|                                    |           | Table      | e 4. Background S | Sample Fiel                         | d Screen a                                   | nd Laborat             | ory Results | - Depth to   | Groundwa                         | ter <50 fee                    | t bgs                             |             |                                       |                        |
|------------------------------------|-----------|------------|-------------------|-------------------------------------|--|------------------------|-------------|--------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|------------------------|
| Sample Description Field Screening |           |            |                   |                                     |  | Petroleum Hydrocarbons |             |              |                                  |                                |                                   |             |                                       |                        |
|                                    |           |            |                   |                                     |  |                        | Volatile    |              |                                  |                                | Extractable                       |             |                                       | Inorganic              |
| Site                               | Sample ID | Depth (ft) | Sample Date       | Volatile Organic<br>Compounds (PID) | Extractable Organic<br>Compounds (PetroFlag) | Chloride Concentration | Benzene     | BTEX (Total) | Gasoline Range<br>Organics (GRO) | Diesel Range Organics<br>(DRO) | Motor Oil Range<br>Organics (MRO) | (GRO + DRO) | Total Petroleum<br>Hydrocarbons (TPH) | Chloride Concentration |
|                                    |           |            |                   | (ppm)                               | (ppm)  | (ppm)                  | (mg/kg)     | (mg/kg)      | (mg/kg)                          | (mg/kg)                        | (mg/kg)                           | (mg/kg)     | (mg/kg)                               | (mg/kg)                |
| 23E-02857                          | BG23-01   | 0          | May 23, 2023      | 0                                   | 34   | 16,550                 | ND          | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 18,000                 |
| 23E-02857                          | BG23-02   | 0          | May 23, 2023      | 0                                   | 80   | 13,936                 | ND          | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 12,000                 |
|                                    |           | 0          | May 23, 2023      | 0                                   | 62   | 20,385                 | ND          | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 17,000                 |
| 23E-02857                          | BG23-03   | 2          | June 30, 2023     | -                                   | 114  | 5,682                  | ND          | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 4,900                  |
| 231-02837                          | BG23=03   | 4          | June 30, 2023     | -                                   | 136  | 6,818                  | ND          | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 5,900                  |
|                                    |           | 6          | June 30, 2023     | -                                   | 146  | 11,104                 | ND          | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 8,800                  |
|                                    |           | 0          | June 30, 2023     | -                                   | 123  | 13,558                 | ND          | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 14,000                 |
| 23E-02857                          | BG23-04   | 2          | June 30, 2023     | -                                   | 140  | 5,890                  | ND          | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 3,700                  |
|                                    |           | 4          | June 30, 2023     | -                                   | 28   | 4,549                  | ND          | ND           | ND                               | ND                             | ND                                | ND          | ND                                    | 3,200                  |

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria





May 03, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX

RE: Laguna Salado 22 Fed 4

OrderNo.: 2304962

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/22/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: Laguna Salado 22 Fed 4

**Analytical Report** Lab Order 2304962

Date Reported: 5/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-14 2' Collection Date: 4/20/2023 8:52:00 AM Received Date: 4/22/2023 7:30:00 AM

| Lab ID: 2304962-001              | Matrix: SOIL | Rece     | <b>Received Date:</b> 4/22/2023 7:30:00 AM |    |                       |  |  |  |  |  |
|----------------------------------|--------------|----------|--|----|-----------------------|--|--|--|--|--|
| Analyses                         | Result       | RL Qua   | al Units                                   | DF | Date Analyzed         |  |  |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |  |    | Analyst: DGH          |  |  |  |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.1      | mg/Kg                                      | 1  | 4/28/2023 11:40:45 AM |  |  |  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 46       | mg/Kg                                      | 1  | 4/28/2023 11:40:45 AM |  |  |  |  |  |
| Surr: DNOP                       | 107          | 69-147   | %Rec                                       | 1  | 4/28/2023 11:40:45 AM |  |  |  |  |  |
| EPA METHOD 8015D: GASOLINE RANGE | E            |          |  |    | Analyst: JJP          |  |  |  |  |  |
| Gasoline Range Organics (GRO)    | ND           | 5.0      | mg/Kg                                      | 1  | 4/28/2023 11:59:52 AM |  |  |  |  |  |
| Surr: BFB                        | 99.1         | 37.7-212 | %Rec                                       | 1  | 4/28/2023 11:59:52 AM |  |  |  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |          |  |    | Analyst: JJP          |  |  |  |  |  |
| Benzene                          | ND           | 0.025    | mg/Kg                                      | 1  | 4/28/2023 11:59:52 AM |  |  |  |  |  |
| Toluene                          | ND           | 0.050    | mg/Kg                                      | 1  | 4/28/2023 11:59:52 AM |  |  |  |  |  |
| Ethylbenzene                     | ND           | 0.050    | mg/Kg                                      | 1  | 4/28/2023 11:59:52 AM |  |  |  |  |  |
| Xylenes, Total                   | ND           | 0.099    | mg/Kg                                      | 1  | 4/28/2023 11:59:52 AM |  |  |  |  |  |
| Surr: 4-Bromofluorobenzene       | 97.2         | 70-130   | %Rec                                       | 1  | 4/28/2023 11:59:52 AM |  |  |  |  |  |
| EPA METHOD 300.0: ANIONS         |              |          |  |    | Analyst: SNS          |  |  |  |  |  |
| Chloride                         | 2000         | 60       | mg/Kg                                      | 20 | 4/27/2023 7:13:46 PM  |  |  |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Laguna Salado 22 Fed 4

2304962-002

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2304962

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/3/2023 Client Sample ID: BH23-14 4' Collection Date: 4/20/2023 9:10:00 AM

Received Date: 4/22/2023 7:30:00 AM

| Analyses                           | Result  | RL Qu    | ual Units | DF | Date Analyzed         |
|------------------------------------|---------|----------|-----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE O | RGANICS |          |           |    | Analyst: DGH          |
| Diesel Range Organics (DRO)        | ND      | 9.6      | mg/Kg     | 1  | 4/28/2023 11:51:11 AM |
| Motor Oil Range Organics (MRO)     | ND      | 48       | mg/Kg     | 1  | 4/28/2023 11:51:11 AM |
| Surr: DNOP                         | 105     | 69-147   | %Rec      | 1  | 4/28/2023 11:51:11 AM |
| EPA METHOD 8015D: GASOLINE RANGE   |         |          |           |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)      | ND      | 4.9      | mg/Kg     | 1  | 4/28/2023 1:09:49 PM  |
| Surr: BFB                          | 97.8    | 37.7-212 | %Rec      | 1  | 4/28/2023 1:09:49 PM  |
| EPA METHOD 8021B: VOLATILES        |         |          |           |    | Analyst: JJP          |
| Benzene                            | ND      | 0.024    | mg/Kg     | 1  | 4/28/2023 1:09:49 PM  |
| Toluene                            | ND      | 0.049    | mg/Kg     | 1  | 4/28/2023 1:09:49 PM  |
| Ethylbenzene                       | ND      | 0.049    | mg/Kg     | 1  | 4/28/2023 1:09:49 PM  |
| Xylenes, Total                     | ND      | 0.098    | mg/Kg     | 1  | 4/28/2023 1:09:49 PM  |
| Surr: 4-Bromofluorobenzene         | 97.8    | 70-130   | %Rec      | 1  | 4/28/2023 1:09:49 PM  |
| EPA METHOD 300.0: ANIONS           |         |          |           |    | Analyst: SNS          |
| Chloride                           | 1200    | 60       | mg/Kg     | 20 | 4/27/2023 7:26:10 PM  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado 22 Fed 4

**Analytical Report** Lab Order 2304962

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/3/2023 Client Sample ID: BH23-14 6' Collection Date: 4/20/2023 9:35:00 AM **Dessived Data:** 1/22/2022 7:20:00 AM

| Lab ID: 2304962-003            | Matrix: SOIL | <b>Received Date:</b> 4/22/2023 7:30:00 AM |       |    |                       |  |  |  |
|--------------------------------|--------------|--|-------|----|-----------------------|--|--|--|
| Analyses                       | Result       | <b>RL</b> Qual Units                       |       | DF | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS  |  |       |    | Analyst: DGH          |  |  |  |
| Diesel Range Organics (DRO)    | ND           | 9.6  | mg/Kg | 1  | 4/28/2023 12:01:41 PM |  |  |  |
| Motor Oil Range Organics (MRO) | ND           | 48   | mg/Kg | 1  | 4/28/2023 12:01:41 PM |  |  |  |
| Surr: DNOP                     | 113          | 69-147                                     | %Rec  | 1  | 4/28/2023 12:01:41 PM |  |  |  |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |  |       |    | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)  | ND           | 5.0  | mg/Kg | 1  | 4/28/2023 2:19:53 PM  |  |  |  |
| Surr: BFB                      | 105          | 37.7-212                                   | %Rec  | 1  | 4/28/2023 2:19:53 PM  |  |  |  |
| EPA METHOD 8021B: VOLATILES    |              |  |       |    | Analyst: JJP          |  |  |  |
| Benzene                        | ND           | 0.025                                      | mg/Kg | 1  | 4/28/2023 2:19:53 PM  |  |  |  |
| Toluene                        | ND           | 0.050                                      | mg/Kg | 1  | 4/28/2023 2:19:53 PM  |  |  |  |
| Ethylbenzene                   | ND           | 0.050                                      | mg/Kg | 1  | 4/28/2023 2:19:53 PM  |  |  |  |
| Xylenes, Total                 | ND           | 0.10                                       | mg/Kg | 1  | 4/28/2023 2:19:53 PM  |  |  |  |
| Surr: 4-Bromofluorobenzene     | 98.5         | 70-130                                     | %Rec  | 1  | 4/28/2023 2:19:53 PM  |  |  |  |
| EPA METHOD 300.0: ANIONS       |              |  |       |    | Analyst: SNS          |  |  |  |
| Chloride                       | 1900         | 60   | mg/Kg | 20 | 4/27/2023 7:38:34 PM  |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit PQL
- Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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Project: Laguna Salado 22 Fed 4

**Analytical Report** Lab Order 2304962

Date Reported: 5/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-14 8' Collection Date: 4/20/2023 10:00:00 AM Received Date: 4/22/2023 7:30:00 AM

| Lab ID: 2304962-004              | Matrix: SOIL | SOIL Received Date: 4/22/2023 7:30:00 AM |       |    |                       |  |  |
|----------------------------------|--------------|--|-------|----|-----------------------|--|--|
| Analyses                         | Result       | <b>RL</b> Qual Units                     |       | DF | Date Analyzed         |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |  |       |    | Analyst: DGH          |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.5                                      | mg/Kg | 1  | 4/28/2023 12:12:09 PM |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 47                                       | mg/Kg | 1  | 4/28/2023 12:12:09 PM |  |  |
| Surr: DNOP                       | 99.2         | 69-147                                   | %Rec  | 1  | 4/28/2023 12:12:09 PM |  |  |
| EPA METHOD 8015D: GASOLINE RANGE |              |  |       |    | Analyst: JJP          |  |  |
| Gasoline Range Organics (GRO)    | ND           | 4.8                                      | mg/Kg | 1  | 4/28/2023 2:43:11 PM  |  |  |
| Surr: BFB                        | 103          | 37.7-212                                 | %Rec  | 1  | 4/28/2023 2:43:11 PM  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |  |       |    | Analyst: JJP          |  |  |
| Benzene                          | ND           | 0.024                                    | mg/Kg | 1  | 4/28/2023 2:43:11 PM  |  |  |
| Toluene                          | ND           | 0.048                                    | mg/Kg | 1  | 4/28/2023 2:43:11 PM  |  |  |
| Ethylbenzene                     | ND           | 0.048                                    | mg/Kg | 1  | 4/28/2023 2:43:11 PM  |  |  |
| Xylenes, Total                   | ND           | 0.097                                    | mg/Kg | 1  | 4/28/2023 2:43:11 PM  |  |  |
| Surr: 4-Bromofluorobenzene       | 98.0         | 70-130                                   | %Rec  | 1  | 4/28/2023 2:43:11 PM  |  |  |
| EPA METHOD 300.0: ANIONS         |              |  |       |    | Analyst: NAI          |  |  |
| Chloride                         | 1500         | 60                                       | mg/Kg | 20 | 4/28/2023 10:41:18 PM |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 4 of 16

Project: Laguna Salado 22 Fed 4

Analytical Report Lab Order 2304962

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/3/2023 Client Sample ID: BH23-14 9' Collection Date: 4/20/2023 10:26:00 AM Received Date: 4/22/2023 7:30:00 AM

| Lab ID: 2304962-005              | Matrix: SOIL | <b>Received Date:</b> 4/22/2023 7:30:00 AM |          |    |                       |  |  |  |
|----------------------------------|--------------|--|----------|----|-----------------------|--|--|--|
| Analyses                         | Result       | RL Qu                                      | al Units | DF | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |  |          |    | Analyst: DGH          |  |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.7  | mg/Kg    | 1  | 4/28/2023 12:22:40 PM |  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 49   | mg/Kg    | 1  | 4/28/2023 12:22:40 PM |  |  |  |
| Surr: DNOP                       | 89.7         | 69-147                                     | %Rec     | 1  | 4/28/2023 12:22:40 PM |  |  |  |
| EPA METHOD 8015D: GASOLINE RANGE | E            |  |          |    | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9  | mg/Kg    | 1  | 4/28/2023 3:06:27 PM  |  |  |  |
| Surr: BFB                        | 101          | 37.7-212                                   | %Rec     | 1  | 4/28/2023 3:06:27 PM  |  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |  |          |    | Analyst: JJP          |  |  |  |
| Benzene                          | ND           | 0.024                                      | mg/Kg    | 1  | 4/28/2023 3:06:27 PM  |  |  |  |
| Toluene                          | ND           | 0.049                                      | mg/Kg    | 1  | 4/28/2023 3:06:27 PM  |  |  |  |
| Ethylbenzene                     | ND           | 0.049                                      | mg/Kg    | 1  | 4/28/2023 3:06:27 PM  |  |  |  |
| Xylenes, Total                   | ND           | 0.098                                      | mg/Kg    | 1  | 4/28/2023 3:06:27 PM  |  |  |  |
| Surr: 4-Bromofluorobenzene       | 97.0         | 70-130                                     | %Rec     | 1  | 4/28/2023 3:06:27 PM  |  |  |  |
| EPA METHOD 300.0: ANIONS         |              |  |          |    | Analyst: SNS          |  |  |  |
| Chloride                         | 2400         | 150  | mg/Kg    | 50 | 5/1/2023 9:14:10 AM   |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado 22 Fed 4

**Analytical Report** Lab Order 2304962

Date Reported: 5/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-05 2' Collection Date: 4/20/2023 11:15:00 AM Received Date: 4/22/2023 7:30:00 AM

| Lab ID: 2304962-006              | Matrix: SOIL | 023 7:30:00 AM       |       |    |                       |
|----------------------------------|--------------|----------------------|-------|----|-----------------------|
| Analyses                         | Result       | <b>RL</b> Qual Units |       | DF | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                      |       |    | Analyst: DGH          |
| Diesel Range Organics (DRO)      | ND           | 9.3                  | mg/Kg | 1  | 4/28/2023 12:33:12 PM |
| Motor Oil Range Organics (MRO)   | ND           | 46                   | mg/Kg | 1  | 4/28/2023 12:33:12 PM |
| Surr: DNOP                       | 110          | 69-147               | %Rec  | 1  | 4/28/2023 12:33:12 PM |
| EPA METHOD 8015D: GASOLINE RANGE | E            |                      |       |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)    | ND           | 5.0                  | mg/Kg | 1  | 4/28/2023 3:29:45 PM  |
| Surr: BFB                        | 109          | 37.7-212             | %Rec  | 1  | 4/28/2023 3:29:45 PM  |
| EPA METHOD 8021B: VOLATILES      |              |                      |       |    | Analyst: JJP          |
| Benzene                          | ND           | 0.025                | mg/Kg | 1  | 4/28/2023 3:29:45 PM  |
| Toluene                          | ND           | 0.050                | mg/Kg | 1  | 4/28/2023 3:29:45 PM  |
| Ethylbenzene                     | ND           | 0.050                | mg/Kg | 1  | 4/28/2023 3:29:45 PM  |
| Xylenes, Total                   | ND           | 0.10                 | mg/Kg | 1  | 4/28/2023 3:29:45 PM  |
| Surr: 4-Bromofluorobenzene       | 98.6         | 70-130               | %Rec  | 1  | 4/28/2023 3:29:45 PM  |
| EPA METHOD 300.0: ANIONS         |              |                      |       |    | Analyst: NAI          |
| Chloride                         | 1000         | 60                   | mg/Kg | 20 | 4/28/2023 11:05:59 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2304962

Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-05 4' Laguna Salado 22 Fed 4 **Project:** Collection Date: 4/20/2023 11:36:00 AM Lab ID: 2304962-007 Matrix: SOIL Received Date: 4/22/2023 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 4/28/2023 12:43:44 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 4/28/2023 12:43:44 PM Surr: DNOP 104 69-147 %Rec 1 4/28/2023 12:43:44 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/28/2023 3:53:06 PM 4.9 mg/Kg 1 Surr: BFB 109 37.7-212 %Rec 1 4/28/2023 3:53:06 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 4/28/2023 3:53:06 PM 1 Toluene ND 0.049 mg/Kg 1 4/28/2023 3:53:06 PM Ethylbenzene ND 0.049 mg/Kg 1 4/28/2023 3:53:06 PM Xylenes, Total ND 0.098 mg/Kg 1 4/28/2023 3:53:06 PM Surr: 4-Bromofluorobenzene 98.7 70-130 %Rec 1 4/28/2023 3:53:06 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 1600 60 4/28/2023 11:18:20 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado 22 Fed 4

Analytical Report Lab Order 2304962

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/3/2023 Client Sample ID: BH23-05 6' Collection Date: 4/20/2023 12:19:00 PM Received Date: 4/22/2023 7:30:00 AM

| Lab ID: 2304962-008              | Matrix: SOIL | <b>Received Date:</b> 4/22/2023 7:30:00 AM |          |    |                       |  |  |  |
|----------------------------------|--------------|--|----------|----|-----------------------|--|--|--|
| Analyses                         | Result       | RL Qua                                     | al Units | DF | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |  |          |    | Analyst: DGH          |  |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.9  | mg/Kg    | 1  | 4/28/2023 12:54:20 PM |  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 49   | mg/Kg    | 1  | 4/28/2023 12:54:20 PM |  |  |  |
| Surr: DNOP                       | 98.4         | 69-147                                     | %Rec     | 1  | 4/28/2023 12:54:20 PM |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |  |          |    | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9  | mg/Kg    | 1  | 4/28/2023 4:16:27 PM  |  |  |  |
| Surr: BFB                        | 114          | 37.7-212                                   | %Rec     | 1  | 4/28/2023 4:16:27 PM  |  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |  |          |    | Analyst: JJP          |  |  |  |
| Benzene                          | ND           | 0.024                                      | mg/Kg    | 1  | 4/28/2023 4:16:27 PM  |  |  |  |
| Toluene                          | ND           | 0.049                                      | mg/Kg    | 1  | 4/28/2023 4:16:27 PM  |  |  |  |
| Ethylbenzene                     | ND           | 0.049                                      | mg/Kg    | 1  | 4/28/2023 4:16:27 PM  |  |  |  |
| Xylenes, Total                   | ND           | 0.097                                      | mg/Kg    | 1  | 4/28/2023 4:16:27 PM  |  |  |  |
| Surr: 4-Bromofluorobenzene       | 100          | 70-130                                     | %Rec     | 1  | 4/28/2023 4:16:27 PM  |  |  |  |
| EPA METHOD 300.0: ANIONS         |              |  |          |    | Analyst: NAI          |  |  |  |
| Chloride                         | 1700         | 60   | mg/Kg    | 20 | 4/28/2023 11:30:42 PM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado 22 Fed 4

Analytical Report Lab Order 2304962

Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG23-01 0' Collection Date: 4/20/2023 2:36:00 PM Pageiyad Date: 4/22/2023 7:30:00 AM

| Lab ID: 2304962-009            | Matrix: SOIL | <b>Received Date:</b> 4/22/2023 7:30:00 AM |       |    |                       |  |  |  |
|--------------------------------|--------------|--|-------|----|-----------------------|--|--|--|
| Analyses                       | Result       | <b>RL</b> Qual Units                       |       | DF | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RAN | IGE ORGANICS |  |       |    | Analyst: DGH          |  |  |  |
| Diesel Range Organics (DRO)    | ND           | 8.7  | mg/Kg | 1  | 4/28/2023 1:04:56 PM  |  |  |  |
| Motor Oil Range Organics (MRO) | ND           | 43   | mg/Kg | 1  | 4/28/2023 1:04:56 PM  |  |  |  |
| Surr: DNOP                     | 69.3         | 69-147                                     | %Rec  | 1  | 4/28/2023 1:04:56 PM  |  |  |  |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |  |       |    | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)  | ND           | 4.8  | mg/Kg | 1  | 4/28/2023 4:40:02 PM  |  |  |  |
| Surr: BFB                      | 88.6         | 37.7-212                                   | %Rec  | 1  | 4/28/2023 4:40:02 PM  |  |  |  |
| EPA METHOD 8021B: VOLATILES    |              |  |       |    | Analyst: JJP          |  |  |  |
| Benzene                        | ND           | 0.024                                      | mg/Kg | 1  | 4/28/2023 4:40:02 PM  |  |  |  |
| Toluene                        | ND           | 0.048                                      | mg/Kg | 1  | 4/28/2023 4:40:02 PM  |  |  |  |
| Ethylbenzene                   | ND           | 0.048                                      | mg/Kg | 1  | 4/28/2023 4:40:02 PM  |  |  |  |
| Xylenes, Total                 | ND           | 0.097                                      | mg/Kg | 1  | 4/28/2023 4:40:02 PM  |  |  |  |
| Surr: 4-Bromofluorobenzene     | 93.1         | 70-130                                     | %Rec  | 1  | 4/28/2023 4:40:02 PM  |  |  |  |
| EPA METHOD 300.0: ANIONS       |              |  |       |    | Analyst: NAI          |  |  |  |
| Chloride                       | ND           | 60   | mg/Kg | 20 | 4/28/2023 11:43:03 PM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Laguna Salado 22 Fed 4

Project:

**Analytical Report** Lab Order 2304962

Date Reported: 5/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG23-01 2' Collection Date: 4/20/2023 2:45:00 PM Received Date: 4/22/2023 7:30:00 AM

| Lab ID: 2304962-010              | Matrix: SOIL | .023 7:30:00 AM |                      |    |                       |
|----------------------------------|--------------|-----------------|----------------------|----|-----------------------|
| Analyses                         | Result       | RL Qu           | <b>RL</b> Qual Units |    | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                 |                      |    | Analyst: DGH          |
| Diesel Range Organics (DRO)      | ND           | 9.6             | mg/Kg                | 1  | 4/28/2023 1:15:33 PM  |
| Motor Oil Range Organics (MRO)   | ND           | 48              | mg/Kg                | 1  | 4/28/2023 1:15:33 PM  |
| Surr: DNOP                       | 108          | 69-147          | %Rec                 | 1  | 4/28/2023 1:15:33 PM  |
| EPA METHOD 8015D: GASOLINE RANGE |              |                 |                      |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)    | ND           | 5.0             | mg/Kg                | 1  | 4/28/2023 5:03:23 PM  |
| Surr: BFB                        | 100          | 37.7-212        | %Rec                 | 1  | 4/28/2023 5:03:23 PM  |
| EPA METHOD 8021B: VOLATILES      |              |                 |                      |    | Analyst: JJP          |
| Benzene                          | ND           | 0.025           | mg/Kg                | 1  | 4/28/2023 5:03:23 PM  |
| Toluene                          | ND           | 0.050           | mg/Kg                | 1  | 4/28/2023 5:03:23 PM  |
| Ethylbenzene                     | ND           | 0.050           | mg/Kg                | 1  | 4/28/2023 5:03:23 PM  |
| Xylenes, Total                   | ND           | 0.10            | mg/Kg                | 1  | 4/28/2023 5:03:23 PM  |
| Surr: 4-Bromofluorobenzene       | 96.7         | 70-130          | %Rec                 | 1  | 4/28/2023 5:03:23 PM  |
| EPA METHOD 300.0: ANIONS         |              |                 |                      |    | Analyst: NAI          |
| Chloride                         | 1300         | 59              | mg/Kg                | 20 | 4/29/2023 12:20:04 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado 22 Fed 4

Analytical Report Lab Order 2304962

Date Reported: 5/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG23-01 4' Collection Date: 4/20/2023 2:55:00 PM Received Date: 4/22/2023 7:30:00 AM

| Lab ID: 2304962-011              | Matrix: SOIL | Received Date: 4/22/2023 7:30:00 AM |         |    |                      |  |  |  |
|----------------------------------|--------------|-------------------------------------|---------|----|----------------------|--|--|--|
| Analyses                         | Result       | RL Qua                              | l Units | DF | Date Analyzed        |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                     |         |    | Analyst: DGH         |  |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.2                                 | mg/Kg   | 1  | 4/28/2023 1:26:08 PM |  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 46                                  | mg/Kg   | 1  | 4/28/2023 1:26:08 PM |  |  |  |
| Surr: DNOP                       | 94.0         | 69-147                              | %Rec    | 1  | 4/28/2023 1:26:08 PM |  |  |  |
| EPA METHOD 8015D: GASOLINE RANGE |              |                                     |         |    | Analyst: JJP         |  |  |  |
| Gasoline Range Organics (GRO)    | ND           | 5.0                                 | mg/Kg   | 1  | 4/28/2023 5:50:06 PM |  |  |  |
| Surr: BFB                        | 97.3         | 37.7-212                            | %Rec    | 1  | 4/28/2023 5:50:06 PM |  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |                                     |         |    | Analyst: JJP         |  |  |  |
| Benzene                          | ND           | 0.025                               | mg/Kg   | 1  | 4/28/2023 5:50:06 PM |  |  |  |
| Toluene                          | ND           | 0.050                               | mg/Kg   | 1  | 4/28/2023 5:50:06 PM |  |  |  |
| Ethylbenzene                     | ND           | 0.050                               | mg/Kg   | 1  | 4/28/2023 5:50:06 PM |  |  |  |
| Xylenes, Total                   | ND           | 0.099                               | mg/Kg   | 1  | 4/28/2023 5:50:06 PM |  |  |  |
| Surr: 4-Bromofluorobenzene       | 96.9         | 70-130                              | %Rec    | 1  | 4/28/2023 5:50:06 PM |  |  |  |
| EPA METHOD 300.0: ANIONS         |              |                                     |         |    | Analyst: NAI         |  |  |  |
| Chloride                         | 880          | 61                                  | mg/Kg   | 20 | 4/29/2023 9:04:38 PM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado 22 Fed 4

**Analytical Report** Lab Order 2304962

Date Reported: 5/3/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG23-01 6' Collection Date: 4/20/2023 3:00:00 PM Received Date: 4/22/2023 7:30:00 AM

| Lab ID: 2304962-012              | Matrix: SOIL | Recei    | ived Date: | 4/22/2 | 023 7:30:00 AM       |
|----------------------------------|--------------|----------|------------|--------|----------------------|
| Analyses                         | Result       | RL Qua   | al Units   | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |            |        | Analyst: DGH         |
| Diesel Range Organics (DRO)      | ND           | 9.2      | mg/Kg      | 1      | 4/28/2023 1:36:40 PM |
| Motor Oil Range Organics (MRO)   | ND           | 46       | mg/Kg      | 1      | 4/28/2023 1:36:40 PM |
| Surr: DNOP                       | 104          | 69-147   | %Rec       | 1      | 4/28/2023 1:36:40 PM |
| EPA METHOD 8015D: GASOLINE RANGE |              |          |            |        | Analyst: JJP         |
| Gasoline Range Organics (GRO)    | ND           | 4.9      | mg/Kg      | 1      | 4/28/2023 6:13:24 PM |
| Surr: BFB                        | 107          | 37.7-212 | %Rec       | 1      | 4/28/2023 6:13:24 PM |
| EPA METHOD 8021B: VOLATILES      |              |          |            |        | Analyst: <b>JJP</b>  |
| Benzene                          | ND           | 0.024    | mg/Kg      | 1      | 4/28/2023 6:13:24 PM |
| Toluene                          | ND           | 0.049    | mg/Kg      | 1      | 4/28/2023 6:13:24 PM |
| Ethylbenzene                     | ND           | 0.049    | mg/Kg      | 1      | 4/28/2023 6:13:24 PM |
| Xylenes, Total                   | ND           | 0.098    | mg/Kg      | 1      | 4/28/2023 6:13:24 PM |
| Surr: 4-Bromofluorobenzene       | 97.7         | 70-130   | %Rec       | 1      | 4/28/2023 6:13:24 PM |
| EPA METHOD 300.0: ANIONS         |              |          |            |        | Analyst: NAI         |
| Chloride                         | 1000         | 60       | mg/Kg      | 20     | 4/29/2023 9:16:58 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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| #: | <b>#:</b> |  |     | 2 | 23 | 04 | 9 | 62 | 2 |  |
|----|-----------|--|-----|---|----|----|---|----|---|--|
|    |           |  | ~ ~ |   |    | -  |   | •  | • |  |

03-May-23

| Client:<br>Project: | Devon Er<br>Laguna S | nergy<br>Salado 22 F | Fed 4                        |           |             |                 |           |               |      |          |      |
|---------------------|----------------------|----------------------|------------------------------|-----------|-------------|-----------------|-----------|---------------|------|----------|------|
| Sample ID: ME       | 3-74614              | SampT                | ype: <b>m</b> t              | olk       | Tes         | tCode: El       | PA Method | 300.0: Anion  | s    |          |      |
| Client ID: PB       | S                    | Batch                | n ID: <b>74</b>              | 614       | F           | RunNo: <b>9</b> | 6377      |               |      |          |      |
| Prep Date: 4        | /27/2023             | Analysis D           | ate: 4/                      | 27/2023   | S           | SeqNo: 34       | 490687    | Units: mg/K   | g    |          |      |
| Analyte<br>Chloride |                      | Result<br>ND         | PQL<br>1.5                   | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Sample ID: LC       | S-74614              | SampT                | ype: Ics                     | 5         | Tes         | tCode: El       | PA Method | 300.0: Anions | s    |          |      |
| Client ID: LC       | SS                   | Batch                | Batch ID: 74614 RunNo: 96377 |           |             |                 |           |               |      |          |      |
| Prep Date: 4        | /27/2023             | Analysis D           | ate: 4/                      | 27/2023   | 5           | SeqNo: 34       | 490688    | Units: mg/K   | g    |          |      |
| Analyte             |                      | Result               | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Chloride            |                      | 14                   | 1.5                          | 15.00     | 0           | 94.3            | 90        | 110           |      |          |      |
| Sample ID: ME       | 3-74650              | SampT                | ype: mb                      | olk       | Tes         | tCode: El       | PA Method | 300.0: Anion: | s    |          |      |
| Client ID: PB       | s                    | Batch                | n ID: <b>74</b>              | 650       | F           | RunNo: <b>9</b> | 6422      |               |      |          |      |
| Prep Date: 4        | /28/2023             | Analysis D           | ate: 4/                      | 28/2023   | 5           | SeqNo: 34       | 492968    | Units: mg/K   | g    |          |      |
| Analyte             |                      | Result               | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Chloride            |                      | ND                   | 1.5                          |           |             |                 |           |               |      |          |      |
| Sample ID: LC       | S-74650              | SampT                | ype: Ics                     | 5         | Tes         | tCode: El       | PA Method | 300.0: Anion: | s    |          |      |
| Client ID: LC       | SS                   | Batch                | n ID: <b>74</b>              | 650       | F           | RunNo: <b>9</b> | 6422      |               |      |          |      |
| Prep Date: 4        | /28/2023             | Analysis D           | ate: 4/                      | 28/2023   | S           | SeqNo: 34       | 492969    | Units: mg/K   | g    |          |      |
| Analyte             |                      | Result               | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Chloride            |                      | 15                   | 1.5                          | 15.00     | 0           | 97.7            | 90        | 110           |      |          |      |

Qualifiers:

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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| Client: Deve                  | on Energy       |                 |           |             |           |           |                    |           |            |      |
|-------------------------------|-----------------|-----------------|-----------|-------------|-----------|-----------|--------------------|-----------|------------|------|
| Project: Lagu                 | ina Salado 22 I | Fed 4           |           |             |           |           |                    |           |            |      |
| Sample ID: LCS-74602          | Samp            | Гуре: <b>LC</b> | s         | Tes         | tCode: El | PA Method | 8015M/D: Di        | esel Rang | e Organics |      |
| Client ID: LCSS               | Batc            | h ID: 74        | 602       | F           | RunNo: 9  | 6417      |                    |           |            |      |
| Prep Date: 4/27/2023          | Analysis [      | Date: 4         | /28/2023  | S           | SeqNo: 3  | 492730    | Units: <b>mg/k</b> | ٤g        |            |      |
| Analyte                       | Result          | PQL             | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit          | %RPD      | RPDLimit   | Qual |
| Diesel Range Organics (DRO)   | 54              | 10              | 50.00     | 0           | 108       | 61.9      | 130                |           |            |      |
| Surr: DNOP                    | 5.9             |                 | 5.000     |             | 117       | 69        | 147                |           |            |      |
| Sample ID: MB-74602           | Samp            | Гуре: МІ        | BLK       | Tes         | tCode: El | PA Method | 8015M/D: Di        | esel Rang | e Organics |      |
| Client ID: PBS                | Batc            | h ID: <b>74</b> | 602       | F           | RunNo: 9  | 6417      |                    |           |            |      |
| Prep Date: 4/27/2023          | Analysis [      | Date: 4/        | /28/2023  | S           | SeqNo: 3  | 492733    | Units: <b>mg/k</b> | ٢g        |            |      |
| Analyte                       | Result          | PQL             | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit          | %RPD      | RPDLimit   | Qual |
| Diesel Range Organics (DRO)   | ND              | 10              |           |             |           |           |                    |           |            |      |
| Motor Oil Range Organics (MRC | )) ND           | 50              |           |             |           |           |                    |           |            |      |
| Surr: DNOP                    | 13              |                 | 10.00     |             | 132       | 69        | 147                |           |            |      |

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2304962

03-May-23

WO#:

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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| WO#: | 2304962   |
|------|-----------|
|      | 03-May-23 |

| Client:<br>Project: | Devon Er<br>Laguna S  | nergy<br>alado 22 F | ed 4       |                    |             |              |                        |                    |              |                |      |
|---------------------|---|---------------------|------------|--------------------|-------------|--------------|------------------------|--------------------|--------------|----------------|------|
| Sample ID:          | D: Ics-74590 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range |                     |            |                    |             |              |                        |                    |              |                |      |
| Client ID:          | LCSS  | Batch               | n ID: 74   | 590                | R           | RunNo: 9     | 6393                   |                    |              |                |      |
| Prep Date:          | 4/26/2023   | Analysis D          | ate: 4/    | 28/2023            | S           | SeqNo: 34    | 491558                 | Units: mg/k        | ٢g           |                |      |
| Analyte             |   | Result              | PQL        | SPK value          | SPK Ref Val | %REC         | LowLimit               | HighLimit          | %RPD         | RPDLimit       | Qual |
| Gasoline Rang       | ge Organics (GRO)   | 23                  | 5.0        | 25.00              | 0           | 90.2         | 70                     | 130                |              |                |      |
| Surr: BFB           |   | 5000                |            | 1000               |             | 504          | 37.7                   | 212                |              |                | S    |
| Sample ID:          | mb-74590  | SampT               | ype: ME    | BLK                | Test        | tCode: EF    | PA Method              | 8015D: Gaso        | line Rang    | e              |      |
| Client ID:          | PBS   | Batch               | n ID: 74   | 590                | R           | RunNo: 90    | 6393                   |                    |              |                |      |
| Prep Date:          | 4/26/2023   | Analysis D          | ate: 4/    | 28/2023            | S           | SeqNo: 34    | 491559                 | Units: <b>mg/k</b> | ٢g           |                |      |
| Analyte             |   | Result              | PQL        | SPK value          | SPK Ref Val | %REC         | LowLimit               | HighLimit          | %RPD         | RPDLimit       | Qual |
| Gasoline Rang       | ge Organics (GRO)   | ND                  | 5.0        |                    |             |              |                        |                    |              |                |      |
| Surr: BFB           |   | 1000                |            | 1000               |             | 104          | 37.7                   | 212                |              |                |      |
| Sample ID:          | 2304962-001ams  | SampT               | ype: MS    | 6                  | Tes         | tCode: EF    | PA Method              | 8015D: Gasc        | oline Rang   | e              |      |
| Client ID:          | BH23-14 2'  | Batch               | n ID: 74   | 590                | R           | RunNo: 9     | 6393                   |                    |              |                |      |
| Prep Date:          | 4/26/2023   | Analysis D          | ate: 4/    | 28/2023            | S           | SeqNo: 34    | 491561                 | Units: mg/k        | ٢g           |                |      |
| Analyte             |   | Result              | PQL        | SPK value          | SPK Ref Val | %REC         | LowLimit               | HighLimit          | %RPD         | RPDLimit       | Qual |
| Gasoline Rang       | ge Organics (GRO)   | 20                  | 4.9        | 24.61              | 0           | 81.7         | 70                     | 130                |              |                |      |
| Surr: BFB           |   | 5000                |            | 984.3              |             | 506          | 37.7                   | 212                |              |                | S    |
| Sample ID:          | 2304962-001amsd   | I SampT             | ype: MS    | SD                 | Test        | tCode: EF    | PA Method              | 8015D: Gasc        | line Rang    | e              |      |
| Client ID:          | BH23-14 2'  | Batch               | n ID: 74   | 590                | R           | RunNo: 9     | 6393                   |                    |              |                |      |
| Prep Date:          | 4/26/2023   | Analysis D          | ate: 4/    | 28/2023            | S           | SeqNo: 34    | 491562                 | Units: mg/k        | ٢g           |                |      |
|                     |   |                     |            |                    |             |              |                        | Link Line it       |              |                |      |
| Analyte             |   | Result              | PQL        | SPK value          | SPK Ref Val | %REC         | LowLimit               | HighLimit          | %RPD         | RPDLimit       | Qual |
| ,                   | ge Organics (GRO)   | Result<br>22        | PQL<br>5.0 | SPK value<br>24.80 | SPK Ref Val | %REC<br>87.7 | LowLimit<br>70<br>37.7 | HighLimit<br>130   | %RPD<br>7.83 | RPDLimit<br>20 | Qual |

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| WO#: | 2304962 |
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| Client: Devon E            | nergy       |                              |           |             |                 |           |                    |       |          |      |
|----------------------------|-------------|------------------------------|-----------|-------------|-----------------|-----------|--------------------|-------|----------|------|
|                            | Salado 22 l | Fed 4                        |           |             |                 |           |                    |       |          |      |
|                            |             |                              |           |             |                 |           |                    |       |          |      |
| Sample ID: LCS-74590       | Samp        | Туре: <b>LC</b>              | S         | Tes         | tCode: El       | PA Method | 8021B: Volat       | iles  |          |      |
| Client ID: LCSS            | Batc        | Batch ID: 74590 RunNo: 96393 |           |             |                 |           |                    |       |          |      |
| Prep Date: 4/26/2023       | Analysis [  | Date: 4/                     | 28/2023   | S           | eqNo: 34        | 491572    | Units: mg/K        | (g    |          |      |
| Analyte                    | Result      | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD  | RPDLimit | Qual |
| Benzene                    | 0.89        | 0.025                        | 1.000     | 0           | 89.2            | 80        | 120                |       |          |      |
| Toluene                    | 0.91        | 0.050                        | 1.000     | 0           | 91.1            | 80        | 120                |       |          |      |
| Ethylbenzene               | 0.92        | 0.050                        | 1.000     | 0           | 92.0            | 80        | 120                |       |          |      |
| Xylenes, Total             | 2.8         | 0.10                         | 3.000     | 0           | 93.1            | 80        | 120                |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.99        |                              | 1.000     |             | 99.3            | 70        | 130                |       |          |      |
| Sample ID: mb-74590        | Samp        | Туре: <b>МЕ</b>              | BLK       | Tes         | tCode: El       | PA Method | 8021B: Volat       | iles  |          |      |
| Client ID: PBS             | Batc        | h ID: 74                     | 590       | F           | tunNo: <b>9</b> | 6393      |                    |       |          |      |
| Prep Date: 4/26/2023       | Analysis [  | Date: 4/                     | 28/2023   | S           | eqNo: 34        | 491573    | Units: <b>mg/K</b> | (g    |          |      |
| Analyte                    | Result      | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD  | RPDLimit | Qual |
| Benzene                    | ND          | 0.025                        |           |             |                 |           |                    |       |          |      |
| Toluene                    | ND          | 0.050                        |           |             |                 |           |                    |       |          |      |
| Ethylbenzene               | ND          | 0.050                        |           |             |                 |           |                    |       |          |      |
| Xylenes, Total             | ND          | 0.10                         |           |             |                 |           |                    |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.96        |                              | 1.000     |             | 96.2            | 70        | 130                |       |          |      |
| Sample ID: 2304962-002ams  | Samp        | Туре: МS                     | 6         | Tes         | tCode: El       | PA Method | 8021B: Volat       | iles  |          |      |
| Client ID: BH23-14 4'      | Batc        | h ID: 74                     | 590       | F           | lunNo: <b>9</b> | 6393      |                    |       |          |      |
| Prep Date: 4/26/2023       | Analysis [  | Date: 4/                     | 28/2023   | S           | eqNo: 34        | 491576    | Units: <b>mg/K</b> | g     |          |      |
| Analyte                    | Result      | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD  | RPDLimit | Qual |
| Benzene                    | 0.84        | 0.025                        | 0.9872    | 0           | 84.8            | 68.8      | 120                |       |          |      |
| Toluene                    | 0.88        | 0.049                        | 0.9872    | 0           | 89.3            | 73.6      | 124                |       |          |      |
| Ethylbenzene               | 0.90        | 0.049                        | 0.9872    | 0           | 91.2            | 72.7      | 129                |       |          |      |
| Xylenes, Total             | 2.7         | 0.099                        | 2.962     | 0           | 92.1            | 75.7      | 126                |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.99        |                              | 0.9872    |             | 100             | 70        | 130                |       |          |      |
| Sample ID: 2304962-002amsc | d Samp      | Туре: МS                     | SD        | Tes         | tCode: El       | PA Method | 8021B: Volat       | iles  |          |      |
| Client ID: BH23-14 4'      | Batc        | h ID: 74                     | 590       | F           | lunNo: <b>9</b> | 6393      |                    |       |          |      |
| Prep Date: 4/26/2023       | Analysis [  | Date: 4/                     | 28/2023   | S           | eqNo: 34        | 491577    | Units: <b>mg/K</b> | (g    |          |      |
| Analyte                    | Result      | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD  | RPDLimit | Qual |
| Benzene                    | 0.86        | 0.025                        | 0.9872    | 0           | 86.7            | 68.8      | 120                | 2.26  | 20       |      |
| Toluene                    | 0.89        | 0.049                        | 0.9872    | 0           | 90.1            | 73.6      | 124                | 0.859 | 20       |      |
| Ethylbenzene               | 0.90        | 0.049                        | 0.9872    | 0           | 91.6            | 72.7      | 129                | 0.416 | 20       |      |
| Xylenes, Total             | 2.7         | 0.099                        | 2.962     | 0           | 92.6            | 75.7      | 126                | 0.545 | 20       |      |
| Surr: 4-Bromofluorobenzene | 0.99        |                              | 0.9872    |             | 100             | 70        | 130                | 0     | 0        |      |
|                            |             |                              |           |             |                 |           |                    |       |          |      |

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- P Sample pH Not In Range
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| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY  | Hall Environmental<br>Albu<br>TEL: 505-345-3975<br>Website: www.ha | 4901 Hawki<br>uquerque, NM<br>FAX: 505-345 | ins NE<br>87109 <b>San</b><br>-4107 | nple Log-In Check List                                 |
|--|--|--|-------------------------------------|--|
| Client Name: Devon Energy  | Work Order Number:   | 2304962                                    |                                     | RcptNo: 1  |
| Received By: Juan Rojas 4/   | 22/2023 7:30:00 AM   |  | Waren G<br>Waren G                  | -  |
| Completed By: Juan Rojas 4/  | 22/2023 7:55:14 AM   |  | Guanda g                            | -  |
| Reviewed By: MD 4/24/2   | 3  |  |                                     |  |
| Chain of Custody   |  |  |                                     |  |
| 1. Is Chain of Custody complete?   |  | Yes 🗌                                      | No 🔽                                | Not Present  |
| 2. How was the sample delivered?   |  | <u>Courier</u>                             |                                     |  |
| Log In<br>3. Was an attempt made to cool the samples?  |  | Yes 🔽                                      | No 🗌                                | NA 🗌   |
| 4. Were all samples received at a temperature of >   | >0° C to 6.0°C   | Yes 🔽                                      | No 🗌                                |  |
| 5. Sample(s) in proper container(s)?   |  | Yes 🗹                                      | No 🗌                                |  |
| 6. Sufficient sample volume for indicated test(s)?   |  | Yes 🗹                                      | No 🗌                                |  |
| 7. Are samples (except VOA and ONG) properly pro   | eserved?   | Yes 🗹                                      | No 🗌                                |  |
| 8. Was preservative added to bottles?  |  | Yes  | No 🗹                                | NA 🗌   |
| 9. Received at least 1 vial with headspace <1/4" for   | AQ VOA?  | Yes  | No 🗌                                | NA 🗹   |
| 10. Were any sample containers received broken?  |  | Yes  | No 🗹                                | # of preserved   |
| 11. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)                        |  | Yes 🔽                                      | No 🗌                                | bottles checked<br>for pH:<br>(<2 or >12 unless noted) |
| 12. Are matrices correctly identified on Chain of Cust   | tody?  | Yes 🗹                                      | No 🗌                                | Adjusted?  |
| 3. Is it clear what analyses were requested?   |  | Yes 🗹                                      | No 🗌                                | The ulastas  |
| <ol> <li>Were all holding times able to be met?<br/>(If no, notify customer for authorization.)</li> </ol> |  | Yes 🗹                                      | No                                  | Checked by: JM 4 22/23                                 |
| Special Handling (if applicable)   |  |  |                                     |  |
| 15. Was client notified of all discrepancies with this   | order?   | Yes  | No 🗌                                | NA 🗹   |
| Person Notified:   | Date   |  |                                     |  |
| By Whom:   | Via:   | eMail                                      | Phone 🗌 Fax                         |  |
| Regarding:   |  |  |                                     |  |
| Client Instructions:   |  |  |                                     |  |
| 16. Additional remarks:  |  |  |                                     |  |
| Client missing mailing address,phone num<br>17. <u>Cooler Information</u>                                  | ider and email addres  | a un COC. Jf                               | N 4122123                           |  |
| Cooler No Temp °C Condition Seal In  | ntact Seal No S  | eal Date                                   | Signed By                           |  |
| 1 0.3 Good No  | Morty  |  |                                     |  |
|  |  |  |                                     |  |
|  |  |  |                                     |  |
| Page 1 of 1  |  |  |                                     |  |
|  |  |  |                                     |  |
|  |  |  |                                     |  |

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| Receive   | d by OCI          | ): 1/8/202   | 25 1:37:44 PM                           |                     |  |                          | _  |                            |                            |                    |                        |                       |               |                 |                                 |          |        | Pag      | e 170 | of 351    |
|---|-------------------|--|---|---------------------|--|--------------------------|--|----------------------------|----------------------------|--------------------|------------------------|-----------------------|---------------|-----------------|---------------------------------|----------|--------|----------|-------|-----------|
|   |                   |  | istody Record                           | Turn-Arour          |  |                          |  |                            |                            | н                  |                        | E                     | NV            | TF              | 20                              | NM       | 1EI    | NT       | AL    |           |
| Client: Deven / Vertex  |                   | Destandard Destandard Rush 5 My<br>Project Name:<br>Laguna Salado 22 Fed 4<br>Project #: |   |                     | HALL ENVIRONMENTAL<br>ANALYSIS LABORATORY<br>www.hallenvironmental.com |                          |  |                            |                            |                    |                        |                       |               |                 |                                 |          |        |          |       |           |
| Mailing   | Address           | On   | <u>File</u>                             | Lagur               | a Salador  | 2 Fed 4                  | 4901 Hawkins NE - Albuquerque, NM 87109                |                            |                            |                    |                        |                       |               |                 |                                 |          |        |          |       |           |
|   |                   |  |   | Project #:<br>23E-0 |  |                          | Tel. 505-345-3975 Fax 505-345-4107<br>Analysis Request |                            |                            |                    |                        |                       |               |                 |                                 |          |        |          |       |           |
| Phone   |                   | /_   |   |                     |  |                          |  |                            |                            |                    | 1                      |                       | 010           | loq             |                                 |          |        | 1000     | 1     |           |
| email o   |                   | /  |   | Project Ma          | nager.   |                          | 121  | R<br>S                     | S                          | U                  |                        | , SO4                 | 12            |                 | sen                             |          |        |          |       |           |
| QA/QC   | Package:<br>Idard |  | Level 4 (Full Validation)               | Kent                | Stallings  | 1                        | TMB's (8021)   | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) |                        | , PO4,                |               |                 | Total Coliform (Present/Absent) |          |        |          |       |           |
| Accred  | itation:          | 🗆 Az Co  | ompliance                               | Sampler:            | sm   |                          | ĮΪ   | ġ                          | 3082                       | (1.1)              |                        | NO <sub>2</sub> ,     |               | _               | rese                            | ten hill | _      |          |       |           |
|   |                   | □ Other  | -                                       | On Ice:             | Yes  | □ No                     | ы<br>Ш   | R<br>N                     | les/8                      | 50                 | sle                    |                       |               | VOA             | d) (                            |          |        |          |       |           |
|   | (Type)            |  | [                                       | # of Cooler         |  | Marty<br>24-0.1=0.3 (°C) | MTBE   | 00                         | ticid                      | thod<br>821        | Meta                   | Br, NO <sub>3</sub> , | (¥            | im              | forn                            |          |        |          |       |           |
|   |                   |  |   | Container           | Preservative   |                          | BTER/ N  | 1:8015                     | 1 Pes                      | EDB (Method 504.1) | RCRA 8 Metals          | , B                   | 8260 (VOA)    | 8270 (Semi-VOA) | al Coli                         |          |        |          |       |           |
| Date  | Time              | Matrix   | Sample Name                             | Type and #          |  | 7304962                  |  | 힡                          | 808                        |                    | R S                    | ц<br>Ю́               | 826           | 827             | Tot                             |          |        |          |       |           |
|   | 8:52              | Soil   | BH23-14 2-                              | 402-jai             |  | -001                     | Ĭ  | $\checkmark$               |                            |                    |                        | V                     |               |                 |                                 | 25010    |        |          |       |           |
| وبيهوي فتحصر ومصحدتها والم  | 9:10              |  | BH23-14 4-                              |                     |  | -002                     |  |                            |                            | -                  | -                      | - } -                 |               | $r_R$           |                                 | -9-      | -      | - 19-    |       |           |
|   | 9:35              |  | BH23-14 6                               |                     |  | -003                     |  |                            |                            |                    | na anna a<br>Francisca |                       | 64            | en col<br>Promi | contract<br>in the              | 222      |        | 747      |       |           |
|   | 10:00             |  | BH23-14 8-                              |                     |  | -004                     |  |                            |                            |                    |                        |                       | i su<br>Lumit |                 | 32.3                            | 1        |        | 20       |       |           |
|   | 10:26             |  | BH23-14 9-                              |                     |  | -005                     |  |                            |                            |                    |                        |                       |               |                 | Sec.                            |          |        |          |       | _         |
|   | 11:15             |  | BH 23-05 2'                             |                     |  | -006                     | Ц_   |                            |                            |                    | 100                    |                       | 1             |                 | 1 have been                     | di sec   |        |          |       |           |
|   | 11:36             |  | BH 23-05 4'                             |                     |  | -007                     | $\square$  |                            |                            |                    |                        |                       |               |                 |                                 | 1 Cores  |        |          |       |           |
|   | 12:19             |  | BH23-05 6                               |                     |  | -008                     | Ц_   |                            |                            |                    |                        | 4                     |               |                 |                                 | _        |        |          |       |           |
| 10 m.   | 14:36             |  | BG22-01 0'                              |                     |  | -009                     |  |                            |                            |                    | _                      |                       |               | 200             |                                 |          | ALC: N |          | _     |           |
|   | 14 45             |  | BG23-01 2-                              |                     |  | -016                     |  |                            |                            |                    |                        | $\square$             |               |                 | 1.144.01                        |          |        | 40. Alba |       | $\square$ |
|   | 14:55             |  | BG23-01 4"                              |                     |  | -011                     | Ц_   | Ц_                         |                            |                    |                        |                       |               |                 | 100                             |          |        |          |       |           |
|   | 15:00             | 1  | BG23-01 6'                              |                     |  | -012                     |  |                            |                            |                    |                        |                       |               |                 | -                               |          |        |          |       |           |
| Date:   | Time:<br>192(1)   | Relinquist   | hed by:<br>MCA                          | Received by:        | Via:   | Date Time                | Rer  | nark                       | <sup>s:</sup> D            | ince               | - bī l                 | 1:2                   | cusili        | n I             | 0 / لم                          | ) 2      | 113    | , y ı    | 488   |           |
| Date: Time: Relinquished by: United by: Via: Date Time<br>491/93 1900 and another of the Time Time Time Time The Time Time Time Time Time Time Time Tim |                   |  | c.                                      |                     | sm   | ccar                     | <u>к</u> (6)   | 1101                       | ter                        | .0                 | v                      |                       | pa            | 1.1             | ; [                             |          |        |          |       |           |
|   | If nonconcon      | Langer and an  | bmitted to Hall Environmental may be su | bcontracted to oth  | er accredited laborato   |                          |  |                            |                            |                    |                        |                       |               |                 |                                 | n the ar | naMica | al repor | t.    |           |

Released to Imaging: 4/17/2025 1:37:41 PM 1~ 4/2/23



May 03, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX

RE: Laguna Salado 22 Fed 4

OrderNo.: 2304A19

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/25/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 5/3/2023

4/27/2023 4:32:29 PM

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG23-01 8 **Project:** Laguna Salado 22 Fed 4 Collection Date: 4/21/2023 8:35:00 AM Lab ID: 2304A19-001 Matrix: SOIL Received Date: 4/25/2023 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 4/27/2023 4:34:17 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/27/2023 4:34:17 AM 69-147 Surr: DNOP 89.5 %Rec 1 4/27/2023 4:34:17 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/28/2023 4:25:00 AM 4.8 mg/Kg 1 Surr: BFB 92.5 37.7-212 %Rec 1 4/28/2023 4:25:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 mg/Kg 4/28/2023 4:25:00 AM 1 Toluene ND 0.048 mg/Kg 1 4/28/2023 4:25:00 AM Ethylbenzene ND 0.048 mg/Kg 1 4/28/2023 4:25:00 AM Xylenes, Total ND 0.096 mg/Kg 1 4/28/2023 4:25:00 AM Surr: 4-Bromofluorobenzene 84.7 70-130 %Rec 1 4/28/2023 4:25:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS

990

60

ma/Ka

20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Chloride

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit POL
  - Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG23-02 0' Laguna Salado 22 Fed 4 **Project:** Collection Date: 4/21/2023 8:28:00 AM Lab ID: 2304A19-002 Matrix: SOIL Received Date: 4/25/2023 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 4/28/2023 2:58:42 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/28/2023 2:58:42 AM 69-147 Surr: DNOP 93.6 %Rec 1 4/28/2023 2:58:42 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/1/2023 10:57:00 PM 5.0 mg/Kg 1 Surr: BFB 88.0 37.7-212 %Rec 1 5/1/2023 10:57:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.025 mg/Kg 5/1/2023 10:57:00 PM 1 Toluene ND 0.050 mg/Kg 1 5/1/2023 10:57:00 PM Ethylbenzene ND 0.050 mg/Kg 1 5/1/2023 10:57:00 PM Xylenes, Total ND 0.10 mg/Kg 1 5/1/2023 10:57:00 PM 5/1/2023 10:57:00 PM Surr: 4-Bromofluorobenzene 86.4 70-130 %Rec 1 Analyst: SNS **EPA METHOD 300.0: ANIONS** Chloride ND 60 5/1/2023 3:36:56 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

RL Rep

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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG23-02 2' Laguna Salado 22 Fed 4 **Project:** Collection Date: 4/21/2023 9:34:00 AM Lab ID: 2304A19-003 Matrix: SOIL Received Date: 4/25/2023 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 10 mg/Kg 1 4/28/2023 3:09:33 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/28/2023 3:09:33 AM Surr: DNOP 94.0 69-147 %Rec 1 4/28/2023 3:09:33 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/2/2023 12:02:00 AM 4.8 mg/Kg 1 Surr: BFB 86.8 37.7-212 %Rec 1 5/2/2023 12:02:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.024 mg/Kg 5/2/2023 12:02:00 AM 1 Toluene ND 0.048 mg/Kg 1 5/2/2023 12:02:00 AM Ethylbenzene ND 0.048 mg/Kg 1 5/2/2023 12:02:00 AM Xylenes, Total ND 0.096 mg/Kg 1 5/2/2023 12:02:00 AM Surr: 4-Bromofluorobenzene 85.7 70-130 %Rec 1 5/2/2023 12:02:00 AM Analyst: SNS **EPA METHOD 300.0: ANIONS** Chloride 660 60 5/1/2023 4:38:40 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG23-02 4' **Project:** Laguna Salado 22 Fed 4 Collection Date: 4/21/2023 9:40:00 AM Lab ID: 2304A19-004 Matrix: SOIL Received Date: 4/25/2023 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 4/28/2023 3:20:23 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/28/2023 3:20:23 AM 69-147 Surr: DNOP 96.9 %Rec 1 4/28/2023 3:20:23 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/2/2023 1:07:00 AM 4.9 mg/Kg 1 Surr: BFB 85.3 37.7-212 %Rec 1 5/2/2023 1:07:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.025 mg/Kg 5/2/2023 1:07:00 AM 1 Toluene ND 0.049 mg/Kg 1 5/2/2023 1:07:00 AM Ethylbenzene ND 0.049 mg/Kg 1 5/2/2023 1:07:00 AM Xylenes, Total ND 0.098 mg/Kg 1 5/2/2023 1:07:00 AM 5/2/2023 1:07:00 AM Surr: 4-Bromofluorobenzene 86.4 70-130 %Rec 1 Analyst: SNS **EPA METHOD 300.0: ANIONS** Chloride 2300 60 5/1/2023 5:15:42 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG23-02 6' **Project:** Laguna Salado 22 Fed 4 Collection Date: 4/21/2023 9:55:00 AM Lab ID: 2304A19-005 Matrix: SOIL Received Date: 4/25/2023 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 4/28/2023 3:31:10 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/28/2023 3:31:10 AM 69-147 Surr: DNOP 99.6 %Rec 1 4/28/2023 3:31:10 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/2/2023 1:28:00 AM 4.7 mg/Kg 1 Surr: BFB 89.1 37.7-212 %Rec 1 5/2/2023 1:28:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.024 mg/Kg 5/2/2023 1:28:00 AM 1 Toluene ND 0.047 mg/Kg 1 5/2/2023 1:28:00 AM Ethylbenzene ND 0.047 mg/Kg 1 5/2/2023 1:28:00 AM Xylenes, Total ND 0.094 mg/Kg 1 5/2/2023 1:28:00 AM Surr: 4-Bromofluorobenzene 89.4 70-130 %Rec 1 5/2/2023 1:28:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 1900 60 5/1/2023 5:28:03 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
  - Reporting Limit

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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG23-02 8' Laguna Salado 22 Fed 4 **Project:** Collection Date: 4/21/2023 10:18:00 AM Lab ID: 2304A19-006 Matrix: SOIL Received Date: 4/25/2023 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 4/28/2023 3:41:56 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/28/2023 3:41:56 AM 69-147 Surr: DNOP 88.6 %Rec 1 4/28/2023 3:41:56 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/2/2023 1:50:00 AM 4.9 mg/Kg 1 Surr: BFB 88.6 37.7-212 %Rec 1 5/2/2023 1:50:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.024 mg/Kg 5/2/2023 1:50:00 AM 1 Toluene ND 0.049 mg/Kg 1 5/2/2023 1:50:00 AM Ethylbenzene ND 0.049 mg/Kg 1 5/2/2023 1:50:00 AM Xylenes, Total ND 0.097 mg/Kg 1 5/2/2023 1:50:00 AM Surr: 4-Bromofluorobenzene 87.0 70-130 %Rec 1 5/2/2023 1:50:00 AM Analyst: SNS **EPA METHOD 300.0: ANIONS** Chloride 1900 59 5/1/2023 5:40:23 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

Reporting Limit RL

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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG23-40 0' **Project:** Laguna Salado 22 Fed 4 Collection Date: 4/21/2023 8:19:00 AM Lab ID: 2304A19-007 Matrix: SOIL Received Date: 4/25/2023 7:20:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 10 9.9 mg/Kg 1 4/28/2023 3:52:41 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/28/2023 3:52:41 AM Surr: DNOP 78.2 69-147 %Rec 1 4/28/2023 3:52:41 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/2/2023 2:12:00 AM 4.9 mg/Kg 1 Surr: BFB 84.6 37.7-212 %Rec 1 5/2/2023 2:12:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.025 mg/Kg 5/2/2023 2:12:00 AM 1 Toluene ND 0.049 mg/Kg 1 5/2/2023 2:12:00 AM Ethylbenzene ND 0.049 mg/Kg 1 5/2/2023 2:12:00 AM Xylenes, Total ND 0.098 mg/Kg 1 5/2/2023 2:12:00 AM

85.7

110

70-130

60

%Rec

ma/Ka

1

20

5/2/2023 2:12:00 AM

5/1/2023 6:17:25 PM

Analyst: SNS

**EPA METHOD 300.0: ANIONS** Chloride

Surr: 4-Bromofluorobenzene

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

Reporting Limit RL

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| WO#: | 2304A19  |
|------|----------|
|      | 02 14 22 |

03-May-23

|                     | evon Energy<br>aguna Salado 22 Fed 4 |                           |                     |               |
|---------------------|--------------------------------------|---------------------------|---------------------|---------------|
| Sample ID: MB-74614 | SampType: mblk                       | TestCode: EPA Method      | 300.0: Anions       |               |
| Client ID: PBS      | Batch ID: <b>74614</b>               | RunNo: <b>96377</b>       |                     |               |
| Prep Date: 4/27/202 | 3 Analysis Date: 4/27/2023           | SeqNo: 3490687            | Units: <b>mg/Kg</b> |               |
| Analyte             | Result PQL SPK value                 | SPK Ref Val %REC LowLimit | HighLimit %RPD      | RPDLimit Qual |
| Chloride            | ND 1.5                               |                           |                     | N DEIMIC Quar |
| Sample ID: LCS-7461 | 4 SampType: Ics                      | TestCode: EPA Method      | 300.0: Anions       |               |
| Client ID: LCSS     | Batch ID: 74614                      | RunNo: 96377              |                     |               |
| Prep Date: 4/27/202 | 3 Analysis Date: 4/27/2023           | SeqNo: 3490688            | Units: <b>mg/Kg</b> |               |
| Analyte             | Result PQL SPK value                 | SPK Ref Val %REC LowLimit | HighLimit %RPD      | RPDLimit Qual |
| Chloride            | 14 1.5 15.00                         | 0 94.3 90                 | 110                 |               |
| Sample ID: MB-74664 | SampType: mblk                       | TestCode: EPA Method      | 300.0: Anions       |               |
| Client ID: PBS      | Batch ID: 74664                      | RunNo: 96419              |                     |               |
| Prep Date: 5/1/2023 | Analysis Date: 5/1/2023              | SeqNo: 3494404            | Units: <b>mg/Kg</b> |               |
| Analyte             | Result PQL SPK value                 | SPK Ref Val %REC LowLimit | HighLimit %RPD      | RPDLimit Qual |
| Chloride            | ND 1.5                               |                           |                     |               |
| Sample ID: LCS-7466 | 4 SampType: Ics                      | TestCode: EPA Method      | 300.0: Anions       |               |
| Client ID: LCSS     | Batch ID: 74664                      | RunNo: 96419              |                     |               |
| Prep Date: 5/1/2023 | Analysis Date: 5/1/2023              | SeqNo: 3494405            | Units: <b>mg/Kg</b> |               |
| Analyte             | Result PQL SPK value                 | SPK Ref Val %REC LowLimit | HighLimit %RPD      | RPDLimit Qual |
| Chloride            | 14 1.5 15.00                         | 0 96.5 90                 | 110                 |               |
| Sample ID: MB-74674 | SampType: mblk                       | TestCode: EPA Method      | 300.0: Anions       |               |
| Client ID: PBS      | Batch ID: 74674                      | RunNo: 96419              |                     |               |
| Prep Date: 5/1/2023 | Analysis Date: 5/1/2023              | SeqNo: 3494434            | Units: <b>mg/Kg</b> |               |
| Analyte             | Result PQL SPK value                 | SPK Ref Val %REC LowLimit | HighLimit %RPD      | RPDLimit Qual |
| Chloride            | ND 1.5                               |                           |                     |               |
| Sample ID: LCS-7467 | 4 SampType: Ics                      | TestCode: EPA Method      | 300.0: Anions       |               |
| Client ID: LCSS     | Batch ID: 74674                      | RunNo: 96419              |                     |               |
| Prep Date: 5/1/2023 | Analysis Date: 5/1/2023              | SeqNo: 3494435            | Units: mg/Kg        |               |
| Analyte             | Result PQL SPK value                 | SPK Ref Val %REC LowLimit | HighLimit %RPD      | RPDLimit Qual |
|                     |                                      |                           | 3                   |               |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Page | 180 | of 351 |
|------|-----|--------|
|      |     |        |

| WO#: | 2304A19  |
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|      | 02.16 02 |

03-May-23

|                                | Energy<br>a Salado 22 Fed 4 |   |   |      |          |              |            |          |      |
|--------------------------------|-----------------------------|---|---|------|----------|--------------|------------|----------|------|
| Sample ID: LCS-74583           | SampType: LCS               | TestCode: EPA Method 8015M/D: Diesel Range Organics |   |      |          |              |            |          |      |
| Client ID: LCSS                | Batch ID: 74583             |   | RunNo: 96315  |      |          |              |            |          |      |
| Prep Date: 4/26/2023           | Analysis Date: 4/26/2023    |   | SeqNo: 3489050                                      |      |          | Units: mg/Kg |            |          |      |
| Analyte                        | Result PQL S                | PK value  | SPK Ref Val   | %REC | LowLimit | HighLimit    | %RPD       | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | 41 10                       | 50.00   | 0   | 82.6 | 61.9     | 130          |            |          |      |
| Surr: DNOP                     | 4.4                         | 5.000   |   | 88.6 | 69       | 147          |            |          |      |
| Sample ID: MB-74583            | SampType: MBL               | TestCode: EPA Method 8015M/D: Diesel Range Organi   |   |      |          |              | e Organics |          |      |
| Client ID: PBS                 | Batch ID: 74583             | RunNo: <b>96315</b>                                 |   |      |          |              |            |          |      |
| Prep Date: 4/26/2023           | Analysis Date: 4/26/2023    |   | SeqNo: 3489053                                      |      |          | Units: mg/Kg |            |          |      |
| Analyte                        | Result PQL S                | PK value  | SPK Ref Val   | %REC | LowLimit | HighLimit    | %RPD       | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND 10                       |   |   |      |          |              |            |          |      |
| Motor Oil Range Organics (MRO) | ND 50                       |   |   |      |          |              |            |          |      |
| Surr: DNOP                     | 9.3                         | 10.00   |   | 92.8 | 69       | 147          |            |          |      |
| Sample ID: LCS-74617           | SampType: LCS               |   | TestCode: EPA Method 8015M/D: Diesel Range Organics |      |          |              |            |          |      |
| Client ID: LCSS                | Batch ID: 74617             |   | RunNo: 96349  |      |          |              |            |          |      |
| Prep Date: 4/27/2023           | Analysis Date: 4/28/2023    |   | SeqNo: 3490871                                      |      |          | Units: mg/Kg |            |          |      |
| Analyte                        | Result PQL S                | PK value  | SPK Ref Val   | %REC | LowLimit | HighLimit    | %RPD       | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | 45 10                       | 50.00   | 0   | 89.1 | 61.9     | 130          |            |          |      |
| Surr: DNOP                     | 5.1                         | 5.000   |   | 103  | 69       | 147          |            |          |      |
| Sample ID: MB-74617            | SampType: MBL               | TestCode: EPA Method 8015M/D: Diesel Range Organics |   |      |          |              |            |          |      |
| Client ID: PBS                 | Batch ID: 74617             |   | RunNo: 96381  |      |          |              |            |          |      |
| Prep Date: 4/27/2023           | Analysis Date: 4/28/2023    |   | SeqNo: 3491272 Units:                               |      |          | Units: mg/k  | (g         |          |      |
| Analyte                        | Result PQL S                | PK value  | SPK Ref Val   | %REC | LowLimit | HighLimit    | %RPD       | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND 10                       |   |   |      |          |              |            |          |      |
| Motor Oil Range Organics (MRO) | ND 50                       |   |   |      |          |              |            |          |      |
| Surr: DNOP                     | 7.2                         | 10.00   |   | 71.6 | 69       | 147          |            |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| Client:<br>Project:            | Devon Er<br>Laguna S | nergy<br>alado 22 F | fed 4         |               |             |                 |            |                    |           |          |      |
|--------------------------------|----------------------|---------------------|---------------|---------------|-------------|-----------------|------------|--------------------|-----------|----------|------|
| Sample ID: Ics                 | s-74569              | SampT               | ype: LC       | S             | Tes         | tCode: El       | PA Method  | 8015D: Gaso        | line Rang | е        |      |
| Client ID: LC                  | SS                   | Batch               | n ID: 74      | 569           | F           | RunNo: 9        | 6355       |                    |           |          |      |
| Prep Date: 4                   | /26/2023             | Analysis D          | ate: 4/       | 27/2023       | 5           | SeqNo: 34       | 490359     | Units: mg/K        | g         |          |      |
| Analyte                        |                      | Result              | PQL           | SPK value     | SPK Ref Val | %REC            | LowLimit   | HighLimit          | %RPD      | RPDLimit | Qual |
| Gasoline Range Or<br>Surr: BFB | rganics (GRO)        | 21<br>1900          | 5.0           | 25.00<br>1000 | 0           | 84.2<br>195     | 70<br>37.7 | 130<br>212         |           |          |      |
| Sample ID: mk                  | o-74569              | SampT               | ype: ME       | BLK           | Tes         | tCode: El       | PA Method  | 8015D: Gaso        | line Rang | е        |      |
| Client ID: PB                  | s                    | Batch               | n ID: 74      | 569           | F           | RunNo: 9        | 6355       |                    |           |          |      |
| Prep Date: 4                   | /26/2023             | Analysis D          | ate: 4/       | 27/2023       | S           | SeqNo: 34       | 490360     | Units: mg/K        | g         |          |      |
| Analyte                        |                      | Result              | PQL           | SPK value     | SPK Ref Val | %REC            | LowLimit   | HighLimit          | %RPD      | RPDLimit | Qual |
| Gasoline Range Or              | rganics (GRO)        | ND                  | 5.0           |               |             |                 |            |                    |           |          |      |
| Surr: BFB                      |                      | 930                 |               | 1000          |             | 92.9            | 37.7       | 212                |           |          |      |
| Sample ID: 23                  | 04a19-002ams         | SampT               | ype: MS       | 3             | Tes         | tCode: El       | PA Method  | 8015D: Gaso        | line Rang | е        |      |
| Client ID: BO                  | G23-02 0'            | Batch               | n ID: 74      | 613           | F           | RunNo: <b>9</b> | 6448       |                    |           |          |      |
| Prep Date: 4                   | /27/2023             | Analysis D          | ate: 5/       | 1/2023        | S           | SeqNo: 34       | 494716     | Units: mg/K        | g         |          |      |
| Analyte                        |                      | Result              | PQL           | SPK value     | SPK Ref Val | %REC            | LowLimit   | HighLimit          | %RPD      | RPDLimit | Qual |
| Gasoline Range Or              | rganics (GRO)        | 18                  | 5.0           | 24.98         | 0           | 71.9            | 70         | 130                |           |          |      |
| Surr: BFB                      |                      | 1900                |               | 999.0         |             | 190             | 37.7       | 212                |           |          |      |
| Sample ID: 23                  | 04a19-002amsd        | SampT               | ype: <b>M</b> | SD            | Tes         | tCode: El       | PA Method  | 8015D: Gaso        | line Rang | е        |      |
| Client ID: BG                  | 923-02 0'            | Batch               | n ID: 74      | 613           | F           | RunNo: <b>9</b> | 6448       |                    |           |          |      |
| Prep Date: 4                   | /27/2023             | Analysis D          | ate: 5/       | 1/2023        | S           | SeqNo: 34       | 494717     | Units: <b>mg/K</b> | g         |          |      |
| Analyte                        |                      | Result              | PQL           | SPK value     | SPK Ref Val | %REC            | LowLimit   | HighLimit          | %RPD      | RPDLimit | Qual |
| Gasoline Range Or              | rganics (GRO)        | 19                  | 5.0           | 24.98         | 0           | 77.0            | 70         | 130                | 6.88      | 20       |      |
| Surr: BFB                      |                      | 2000                |               | 999.0         |             | 195             | 37.7       | 212                | 0         | 0        |      |
| Sample ID: mb                  | o-74613              | SampT               | ype: ME       | BLK           | Tes         | tCode: El       | PA Method  | 8015D: Gaso        | line Rang | е        |      |
| Client ID: PB                  | s                    | Batch               | n ID: 74      | 613           | F           | RunNo: <b>9</b> | 6448       |                    |           |          |      |
| Prep Date: 4                   | /27/2023             | Analysis D          | ate: 5/       | 1/2023        | S           | SeqNo: 34       | 494775     | Units: <b>mg/K</b> | g         |          |      |
| Analyte                        |                      | Result              | PQL           | SPK value     | SPK Ref Val | %REC            | LowLimit   | HighLimit          | %RPD      | RPDLimit | Qual |
| Gasoline Range Or              | rganics (GRO)        | ND                  | 5.0           |               |             |                 |            |                    |           |          |      |
| Surr: BFB                      |                      | 860                 |               | 1000          |             | 85.7            | 37.7       | 212                |           |          |      |

| Sample ID: Ics-74613 | I 8015D: Gasoline Range |                           |                           |      |
|----------------------|-------------------------|---------------------------|---------------------------|------|
| Client ID: LCSS      | Batch ID: 74613         | RunNo: 96448              |                           |      |
| Prep Date: 4/27/2023 | Analysis Date: 5/1/2023 | SeqNo: 3494776            | Units: <b>mg/Kg</b>       |      |
| Analyte              | Result PQL SPK value    | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit G | Qual |

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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|                         | Devon Energy<br>Laguna Salado 22 | Fed 4           |           |             |                 |           |             |           |          |      |
|-------------------------|----------------------------------|-----------------|-----------|-------------|-----------------|-----------|-------------|-----------|----------|------|
| Sample ID: Ics-7461     | 3 Samp                           | Туре: <b>LC</b> | S         | Tes         | tCode: El       | PA Method | 8015D: Gaso | line Rang | е        |      |
| Client ID: LCSS         | Bate                             | ch ID: 74       | 613       | F           | RunNo: <b>9</b> | 6448      |             |           |          |      |
| Prep Date: 4/27/20      | 23 Analysis                      | Date: 5/        | 1/2023    | S           | SeqNo: 34       | 494776    | Units: mg/K | g         |          |      |
| Analyte                 | Result                           | PQL             | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |
| Gasoline Range Organics | (GRO) 20                         | 5.0             | 25.00     | 0           | 82.0            | 70        | 130         |           |          |      |
| Surr: BFB               | 1900                             |                 | 1000      |             | 188             | 37.7      | 212         |           |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#:

Devon Energy

Laguna Salado 22 Fed 4

**Client:** 

**Project:** 

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Toluene         0.88         0.050         1.000         0         87.5         80         120           Ehlybenzene         0.85         0.050         1.000         0         85.0         80         120           Surr.4Bronofluorobenzene         0.87         1.000         0         84.0         80         120           Surr.4Bronofluorobenzene         0.87         1.000         87.5         70         130           Sample ID:         mb-74569         SampType:         MBLK         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         PBS         Batch ID:         74569         RunNo:         96355         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.050         TestCode:         EPA Method 8021B:         Volatiles         E           Sumr.4Bronofluorobenzene         ND         0.050         SeqNo:         3494774         Units:         mg/Kg           Sample ID:         mb/S         Batch ID:         74613         RunNo:         96448         Volatiles  |   |  |  |  |  |   |   |  |                     |          |      |
|--|---|--|--|--|--|---|---|--|---------------------|----------|------|
| Prep Date:       4/26/2023       Analysis Date:       4/27/2023       SeqNo:       349040       Units:       mg/kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLinit       HighLinit       %RPD       RPDLinit       Qual         Bertzene       0.88       0.025       1.000       0       88.6       80       120         Struct Birtomoflucorbenzene       0.85       0.050       1.000       0       87.5       80       120         Symes, Total       2.5       0.10       3.000       0       84.0       80       120         Symes, Total       2.5       0.10       3.000       0       87.5       70       130         Sample ID:       mb-74569       Samr/Type:       MBLK       TestCode:       EVAnNo:       96218:       Volatiles         Client ID:       PPS       Batch ID:       74569       RunNo:       96405       Units:       mg/kg         Sample ID:       mb-74513       Result       POL       SPK value       SPK Ref Val       %REC       LowLinit       HighLinit       %RPD       RPDLinit       Qual         Sample ID:       mb-74613       Samr/Type:       MBLK <td< td=""><td>Sample ID: Ics-74569</td><td colspan="6">SampType: LCS TestCode: EPA Method 8021B: Volatiles</td></td<>   | Sample ID: Ics-74569  | SampType: LCS TestCode: EPA Method 8021B: Volatiles  |  |  |  |   |   |  |                     |          |      |
| Analyte         Result         PQL         SPK value         SPK Ref Val         % REC         LowLinit         HighLinit         % RPD         RPDLinit         Qual           Berizere         0.89         0.025         1.000         0         88.6         80         120           Toluene         0.88         0.050         1.000         0         87.5         80         120           Killener         0.88         0.050         1.000         0         87.5         80         120           Sumr-ABromofluorobenzene         0.87         1.000         0         87.5         70         130           Sample ID:         mb-74569         SampType:         MBLK         TestCode:         EPA Method 80218:         Volatiles           Client ID:         PPS         Batch ID:         74569         RunNo:         96.85         70         130           Benzene         ND         0.025         Toluene         ND         0.050         SampIe ID:         mb-74613         RunNo:         96448         Volatiles         Volatile   | Client ID: LCSS   | Batc   | h ID: 74   | 569  | F  | RunNo: 9  | 6355  |  |                     |          |      |
| Benzane         0.89         0.025         1.000         0         88.6         80         120           Toluere         0.88         0.650         1.000         0         87.5         80         120           Kylenes, Total         2.5         0.10         3.000         0         85.0         80         120           Surr.4-Bromofluorobenzene         0.87         1.000         87.5         70         130           Sample ID:         mb-74569         SampType:         MBLK         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         PBS         Batch ID: 74569         RunNo:         96335         Prep Date:         4/26/2023         Analyte         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.050         Etypleanzene         ND         0.050         Etypleanzene         ND         0.50           Sample ID:         mb-74613         SampType:         MELK         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         PSB         Batch ID: 74613         RunNo:         96448         Prep Date:         4/27/  | Prep Date: 4/26/2023  | Analysis [   | Date: 4/   | 27/2023  | S  | SeqNo: 34   | 490404  | Units: mg/K  | ٤g                  |          |      |
| Toluene       0.88       0.050       1.000       0       87.5       80       120         Ehlybenzene       0.85       0.050       1.000       0       84.0       80       120         Sur: 4-Bromofluorobenzene       0.87       1.000       0       84.0       80       120         Sur: 4-Bromofluorobenzene       0.87       1.000       87.5       70       130         Sur: 4-Bromofluorobenzene       0.87       TestCode:       EPA Method 8021B: Volatiles       Volatiles         Client ID:       PBS       Batch ID:       74569       SeqNo:       3490405       Units: mg/Kg         Analyte       Result       POL       SPK value       SPK Ref Val $kREC$ LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       ND       0.05       Sur: 4-Bromofluorobenzene       ND       0.05       SeqNo:       3494774       Units: mg/Kg         Sample ID:       mb-74613       Sam:/prover       SerK ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Sample ID:       MD       0.050       Sertile       SeqNo:       3494774       Units: mg/Kg       Units: mg/Kg <t< td=""><td>Analyte</td><td>Result</td><td>PQL</td><td>SPK value</td><td>SPK Ref Val</td><td>%REC</td><td>LowLimit</td><td>HighLimit</td><td>%RPD</td><td>RPDLimit</td><td>Qual</td></t<>   | Analyte   | Result   | PQL  | SPK value  | SPK Ref Val                                      | %REC  | LowLimit  | HighLimit  | %RPD                | RPDLimit | Qual |
| Ethylbenzene       0.85       0.000       1.000       0       85.0       80       120         Sum: 4-Bromofuluorobenzene       0.87       1.000       87.5       70       130         Sample ID: mb-74569       Sam: Type:       MBL       TestCode:       EPA Method 8021B:       Volatiles         Prep Date:       4/26/2023       Analysis Date:       4/27/2023       SeqNo: 3490405       Units: mg/Kg       Qual         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       ND       0.025       Service   | Benzene   | 0.89   | 0.025  | 1.000  | 0  | 88.6  | 80  | 120  |                     |          |      |
| Xylenes, Total         2.5         0.10         3.000         0         84.0         80         120           Surr. 4-Bromofluorobenzene         0.87         1.000         87.5         70         130           Sample ID: mb-74569         SampType:         MBLK         TestCode:         EPA Method         8021B: Volatiles           Client ID:         PBS         Batch ID:         74569         RunNo:         96355           Prep Date:         4/26/2023         Analysis Date:         4/27/2023         SeqNo:         3490405         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.025          TestCode:         EPA Method 8021B: Volatiles         Units:         mg/Kg           Sample ID:         mb-74613         SampType:         MBLK         TestCode:         EPA Method 8021B: Volatiles           Client ID:         PBS         Batch ID:         74613         RunNo:         96448            Prep Date:         4/27/2023         Analysis Date:         5/1/2023         SeqNo:         3494774         Units:   | Toluene   | 0.88   | 0.050  | 1.000  | 0  | 87.5  | 80  | 120  |                     |          |      |
| Surr. 4-Bromefluorobenzene         0.87         1.000         87.5         70         130           Sample ID: mb-74569         SampType: MBLK         TestCode: EPA Method 8021B: Volatiles         Volatiles           Client ID:         PBS         Batch ID: 74569         RunNo: 96355         Vinits: mg/Kg           Analyte         Result         PQL         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.025         Vinits: mg/Kg         Vinits: mg/Kg         Vinits: mg/Kg         Vinits: mg/Kg           Sample ID:         mb-74613         SampType:         MBLK         TestCode:         EPA Method 8021B: Volatiles         Vinits: mg/Kg           Client ID:         PBS         Batch ID:         74613         RunNo:         96448         Vinits: mg/Kg           Sample ID:         mb-74613         SampType:         MBLK         TestCode:         EPA Method 8021B: Volatiles         Vinits: mg/Kg           Analyte         Result         PQL         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.025         Samptolitits: mg/Kg         Samptolitits: mg/Kg   | Ethylbenzene  | 0.85   | 0.050  | 1.000  | 0  | 85.0  | 80  | 120  |                     |          |      |
| Sample ID: mb-74569         SampType:         MBLK         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         PBS         Batch ID:         74569         RunNo:         96355           Prep Date:         4/26/2023         Analysis Date:         4/27/2023         SeqNo:         3490405         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.025         Totuene         ND         0.050         Ethylenezme         ND         0.050           Sample ID:         mb-74613         SampType:         MBLK         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         PBS         Batch ID:         74613         RunNo:         96448         Prep Date:         4/27/2023         Analysis Date:         5/1/2023         SeqNo:         3494774         Units:         mg/Kg           Analysis         Date:         5/1/2023         SeqNo:         3494774         Units:         mg/Kg           Client ID:         PBS         Batch ID:         74613         RunNo:         96448         <  | Xylenes, Total  | 2.5  | 0.10   | 3.000  | 0  | 84.0  | 80  | 120  |                     |          |      |
| Client ID:       PBS       Batch ID:       74569       RunNo:       96355         Prep Date:       4/26/2023       Analysis Date:       4/27/2023       SeqNo:       3490405       Units:       mg/Kg         Analyte       Result       POL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       ND       0.050       Strand       ND       0.050       Strand       ND       0.050         Ethybenzene       ND       0.050       Strand       ND       0.050       Strand       ND       0.10         Sample ID:       mb       0.100       85.8       70       130       Strand       Qual         Sample ID:       mb-74613       SampType:       MBLK       TestCode:       EPA Method 8021B:       Volutils:       Volutils:         Client ID:       PBS       Batch ID:       74*13       RunNo:       96448       Volutils:       MC       Qual         Benzene       ND       0.050       Strand       MD       0.050       Strand       MD       MD       Qual         Benzene       ND       0.050       Strand       MD       MD       MD  | Surr: 4-Bromofluorobenzene  | 0.87   |  | 1.000  |  | 87.5  | 70  | 130  |                     |          |      |
| Prep Date:         4/26/2023         Analysis Date:         4/27/2023         SeqNo:         3490405         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.025          Signos         Si  | Sample ID: mb-74569         SampType: MBLK         TestCode: EPA Method 8021B: Volatiles  |  |  |  |  | tiles   |   |  |                     |          |      |
| Ralyte         PQL         SPK value         SPK Ref Val         % REC         LowLimit         HighLimit         % RPD         RPDLimit         Qual           Benzene         ND         0.025   | Client ID: PBS Batch ID: 74569  |  |  | F  | RunNo: <b>9</b>                                  | 6355  |   |  |                     |          |      |
| Benzene         ND         0.025           Toluene         ND         0.050           Ethylbenzene         ND         0.050           Sample ID:         mb-74613         SampType:         MBLK         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         PBS         Batch ID:         74613         RunNo:         96448           Prep Date:         4/27/2023         Analysis Date:         5/1/2023         SeqNo:         3494774         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.025         Difference         ND         0.050         Ethylbenzene         ND         0.050           Sample ID:         2304a19-003ams         SampType:         MS         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         BG23-02 2'         Batch ID:         74613         RunNo:         96448           Prep Date:         4/27/2023         SeqNo:         3494780         Units:         mg/Kg           Analyte         Result         PQL         SPK v   | Prep Date: 4/26/2023  | Analysis [   | Date: 4/   | 27/2023  | S  | SeqNo: 34   | 490405  | Units: mg/K  | (g                  |          |      |
| Totalene         ND         0.050           Ethylbenzene         ND         0.050           Kylenes, Total         ND         0.10           Surr: 4-Bromofluorobenzene         0.86         1.000         85.8         70         130           Sample ID:         mb-74613         SampType:         MBLK         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         PBS         Batch ID:         74613         RunNo:         96448           Prep Date:         4/27/2023         Analysis Date:         5/1/2023         SeqNo:         3494774         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.055         SampType:         TestCode:         EPA Method 8021B:         Volumit         Samptional         Samptional         Samptional         Samptional         Qual         Samptional         Sampt  | Analyte   |  |  | SPK value  | SPK Ref Val                                      | %REC  | LowLimit  | HighLimit  | %RPD                | RPDLimit | Qual |
| Ethylberace       ND       0.050         Xylenes, Total       ND       0.10         Surr: 4-Bromofluorobenzene       0.86       1.000       85.8       70       130         Sample ID: mb-74613       SampType: MBLK       TestCode: EPA Method 8021B: Volatiles           Client ID: PBS       Batch ID: 74613       SPK ref Val       SeqNo: 3494774       Units: mg/Kg          Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       ND       0.025        Stratego Strate | Benzene   | ND   | 0.025  |  |  |   |   |  |                     |          |      |
| ND         0.10         85.8         70         130           Sample ID:         mb-74613         SampType:         MBLK         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         PBS         Batch ID:         74613         RunNo:         96448           Prep Date:         4/27/2023         Analysis Date:         5/1/2023         SeqNo:         3494774         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.050         Strangel UD:         388.9         70         130         Strangel UD:         Strangel UD:         2304a19-003ams         SampType:         MS         TestCode:         EPA Method 8021B:         Volatiles         Strangel UD:         Strangel UD:         30419-003ams         SampType:         MS         TestCode:         EPA Method 8021B:         Volatiles         Strangel UD:         Strangel UD:         Strangel UD:         70         130         Strangel UD:  | Toluene   | ND   | 0.050  |  |  |   |   |  |                     |          |      |
| Surr. 4-Bromofluorobenzene         0.86         1.000         85.8         70         130           Sample ID: mb-74613         SampType:         MBLK         TestCode:         EPA Method 8021B: Volatiles           Client ID:         PBS         Batch ID:         74613         RunNo:         96448           Prep Date:         4/27/2023         Analysis Date:         5/1/2023         SeqNo:         3494774         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.025           FestCode:         EPA Method 8021B: Volatiles         Units:         mg/Kg           Sample ID:         2304a19-003ams         SampType:         MS         TestCode:         EPA Method 8021B: Volatiles           Client ID:         B623-02 2'         Batch ID:         74613         RunNo:         96448           Prep Date:         4/27/2023         Analysis Date:         5/2/2023         SeqNo:         3494780         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowL  | Ethylbenzene  | ND   | 0.050  |  |  |   |   |  |                     |          |      |
| Sample ID:         mb-74613         SampType:         MBLK         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         PBS         Batch ID:         74613         RunNo:         96448           Prep Date:         4/27/2023         Analysis Date:         5/1/2023         SeqNo:         3494774         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK value         ClowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.025                       Qual           Qual            Qual            Qual  <  | Xylenes, Total  | ND   | 0.10   |  |  |   |   |  |                     |          |      |
| Client ID:       PBS       Batch ID:       74613       RunNo:       96448         Prep Date:       4/27/2023       Analysis Date:       5/1/2023       SeqNo:       3494774       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       ND       0.025       -  | Surr: 4-Bromofluorobenzene  | 0.86   |  | 1.000  |  | 85.8  | 70  | 130  |                     |          |      |
| Prep Date:       4/27/2023       Analysis Date:       5/1/2023       SeqNo:       3/494774       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       % REC       LowLimit       HighLimit       % RPD       RPDLimit       Qual         Benzene       ND       0.025          Kef Val       % REC       LowLimit       HighLimit       % RPD       RPDLimit       Qual         Benzene       ND       0.025          Kef Val       % REC       LowLimit       HighLimit       % RPD       RPDLimit       Qual         Benzene       ND       0.050   |   |  |  |  | TestCode: EPA Method 8021B: Volatiles            |   |   |  |                     |          |      |
| Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.025   | -   | Samp   | Гуре: <b>МЕ</b>  | BLK  | Tes  | tCode: El   | PA Method   | 8021B: Volat   | tiles               |          |      |
| Benzene         ND         0.025           Toluene         ND         0.050           Ethylbenzene         ND         0.050           Xylenes, Total         ND         0.10           Surr: 4-Bromofluorobenzene         0.89         1.000         88.9         70         130           Sample ID:         2304a19-003ams         SampType:         MS         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         B623-02 2'         Batch ID:         74613         RunNo:         96448           Prep Date:         4/27/2023         Analysis Date:         5/2/2023         SeqNo:         3494780         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.87         0.024         0.9643         0         90.2         73.6         124           Ethylbenzene         0.85         0.048         0.9643         0         87.9         72.7         129           Xylenes, Total         2.5         0.096         2.893         0         87.1         75.7         126  | Sample ID: mb-74613   |  |  |  |  |   |   | 8021B: Volat   | tiles               |          |      |
| Toluene       ND       0.050         Ethylbenzene       ND       0.050         Xylenes, Total       ND       0.10         Surr: 4-Bromofluorobenzene       0.89       1.000       88.9       70       130         Sample ID:       2304a19-003ams       SampType: MS       TestCode: EPA Method 8021B: Volatiles       Volatiles         Client ID:       BG23-02 2'       Batch ID:       74613       RunNo:       96448         Prep Date:       4/27/2023       Analysis Date:       5/2/2023       SeqNo:       3494780       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.87       0.048       0.9643       0       90.4       68.8       120         Toluene       0.87       0.024       0.9643       0       90.2       73.6       124         Ethylbenzene       0.87       0.048       0.9643       0       90.2       73.6       124         Kylenes, Total       2.5       0.096       2.893       0       87.1       75.7       126   | Sample ID: mb-74613<br>Client ID: PBS   | Batc   | h ID: 740  | 613  | F  | RunNo: <b>9</b>   | 6448  |  |                     |          |      |
| Ethylbenzene       ND       0.050         Xylenes, Total       ND       0.10         Surr: 4-Bromofluorobenzene       0.89       1.000       88.9       70       130         Sample ID:       2304a19-003ams       SampType: MS       TestCode: EPA Method 8021B: Volatiles       Volatiles         Client ID:       B623-02 2'       Batch ID:       74613       RunNo:       96448         Prep Date:       4/27/2023       Analysis Date:       5/2/2023       SeqNo:       3494780       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.87       0.048       0.9643       0       90.2       73.6       124         Toluene       0.85       0.048       0.9643       0       87.9       72.7       129         Xylenes, Total       2.5       0.096       2.893       0       87.1       75.7       126   | Sample ID: <b>mb-74613</b><br>Client ID: <b>PBS</b><br>Prep Date: <b>4/27/2023</b>  | Batc<br>Analysis [   | h ID: 740<br>Date: 5/  | 613<br>1/2023  | F  | RunNo: <b>9</b><br>SeqNo: <b>3</b>  | 6448<br>494774  | Units: <b>mg/K</b>   | (g                  | RPDLimit | Qual |
| Xylenes, Total       ND       0.10         Surr: 4-Bromofluorobenzene       0.89       1.000       88.9       70       130         Sample ID: 2304a19-003ams       SampType: MS       TestCode: EPA Method 8021B: Volatiles         Client ID:       BG23-02 2'       Batch ID: 74613       RunNo: 96448         Prep Date:       4/27/2023       Analysis Date:       5/2/2023       SeqNo: 3494780       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.87       0.024       0.9643       0       90.2       73.6       124         Ethylbenzene       0.85       0.048       0.9643       0       87.9       72.7       129         Xylenes, Total       2.5       0.096       2.893       0       87.1       75.7       126  | Sample ID: <b>mb-74613</b><br>Client ID: <b>PBS</b><br>Prep Date: <b>4/27/2023</b>  | Batc<br>Analysis I<br>Result   | h ID: <b>74</b><br>Date: <b>5</b> /<br>PQL   | 613<br>1/2023  | F  | RunNo: <b>9</b><br>SeqNo: <b>3</b>  | 6448<br>494774  | Units: <b>mg/K</b>   | (g                  | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene         0.89         1.00         88.9         70         130           Sample ID:         2304a19-003ams         SampType:         MS         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         BG23-02 2'         Batch ID:         74613         RunNo:         96448           Prep Date:         4/27/2023         Analysis Date:         5/2/2023         SeqNo:         3494780         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.87         0.024         0.9643         0         90.2         73.6         124           Toluene         0.85         0.048         0.9643         0         87.9         72.7         129           Xylenes, Total         2.5         0.096         2.893         0         87.1         75.7         126   | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte  | Batc<br>Analysis I<br>Result<br>ND   | h ID: <b>74</b><br>Date: <b>5</b> /<br>PQL<br>0.025  | 613<br>1/2023  | F  | RunNo: <b>9</b><br>SeqNo: <b>3</b>  | 6448<br>494774  | Units: <b>mg/K</b>   | (g                  | RPDLimit | Qual |
| Sample ID:       2304a19-003ams       SampType:       MS       TestCode:       EPA Method 8021B:       Volatiles         Client ID:       BG23-02 2'       Batch ID:       74613       RunNo:       96448         Prep Date:       4/27/2023       Analysis Date:       5/2/2023       SeqNo:       3494780       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.87       0.024       0.9643       0       90.2       73.6       124         Toluene       0.85       0.048       0.9643       0       87.9       72.7       129         Xylenes, Total       2.5       0.096       2.893       0       87.1       75.7       126  | Sample ID: <b>mb-74613</b><br>Client ID: <b>PBS</b><br>Prep Date: <b>4/27/2023</b><br>Analyte<br>Benzene  | Batc<br>Analysis I<br>Result<br>ND<br>ND   | h ID: <b>74</b><br>Date: <b>5</b> /<br>PQL<br>0.025<br>0.050   | 613<br>1/2023  | F  | RunNo: <b>9</b><br>SeqNo: <b>3</b>  | 6448<br>494774  | Units: <b>mg/K</b>   | (g                  | RPDLimit | Qual |
| Client ID:       BG23-02 2'       Batch ID:       74613       RunNo:       96448         Prep Date:       4/27/2023       Analysis Date:       5/2/2023       SeqNo:       3494780       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.87       0.024       0.9643       0       90.2       73.6       124         Toluene       0.87       0.048       0.9643       0       87.9       72.7       129         Xylenes, Total       2.5       0.096       2.893       0       87.1       75.7       126   | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene  | Analysis E<br>Result<br>ND<br>ND<br>ND   | h ID: <b>74</b><br>Date: <b>5</b> /<br>PQL<br>0.025<br>0.050<br>0.050  | 613<br>1/2023  | F  | RunNo: <b>9</b><br>SeqNo: <b>3</b>  | 6448<br>494774  | Units: <b>mg/K</b>   | (g                  | RPDLimit | Qual |
| Prep Date:         4/27/2023         Analysis Date:         5/2/2023         SeqNo:         3494780         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.87         0.024         0.9643         0         90.4         68.8         120           Toluene         0.87         0.048         0.9643         0         90.2         73.6         124           Ethylbenzene         0.85         0.048         0.9643         0         87.9         72.7         129           Xylenes, Total         2.5         0.096         2.893         0         87.1         75.7         126   | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total  | Batc<br>Analysis I<br>Result<br>ND<br>ND<br>ND<br>ND   | h ID: <b>74</b><br>Date: <b>5</b> /<br>PQL<br>0.025<br>0.050<br>0.050  | 5 <b>13</b><br>1/2023<br>SPK value   | F  | RunNo: 9<br>SeqNo: 3<br>%REC  | 5448<br>494774<br>LowLimit  | Units: <b>mg/K</b><br>HighLimit  | (g                  | RPDLimit | Qual |
| Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.87         0.024         0.9643         0         90.4         68.8         120           Toluene         0.87         0.048         0.9643         0         90.2         73.6         124           Ethylbenzene         0.85         0.048         0.9643         0         87.9         72.7         129           Xylenes, Total         2.5         0.096         2.893         0         87.1         75.7         126  | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene  | Analysis I<br>Result<br>ND<br>ND<br>ND<br>ND<br>0.89   | Date: 5/<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10   | 513<br>1/2023<br>SPK value<br>1.000  | F<br>SPK Ref Val                                 | RunNo: 9<br>SeqNo: 3<br>%REC<br>88.9  | 5448<br>494774<br>LowLimit<br>70  | Units: <b>mg/K</b><br>HighLimit<br>130   | <b>íg</b><br>%RPD   | RPDLimit | Qual |
| Benzene         0.87         0.024         0.9643         0         90.4         68.8         120           Toluene         0.87         0.048         0.9643         0         90.2         73.6         124           Ethylbenzene         0.85         0.048         0.9643         0         87.9         72.7         129           Xylenes, Total         2.5         0.096         2.893         0         87.1         75.7         126  | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2304a19-003ams   | Batc<br>Analysis I<br>Result<br>ND<br>ND<br>ND<br>0.89<br>Samp   | h ID: <b>74</b><br>Date: <b>5</b> /<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10  | 513<br>1/2023<br>SPK value<br>1.000  | F<br>SPK Ref Val                                 | RunNo: 9<br>SeqNo: 3<br>%REC<br>88.9  | 5448<br>494774<br>LowLimit<br>70<br>PA Method   | Units: <b>mg/K</b><br>HighLimit<br>130   | <b>íg</b><br>%RPD   | RPDLimit | Qual |
| Toluene0.870.0480.9643090.273.6124Ethylbenzene0.850.0480.9643087.972.7129Xylenes, Total2.50.0962.893087.175.7126   | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2304a19-003ams<br>Client ID: BG23-02 2'  | Batc<br>Analysis I<br>Result<br>ND<br>ND<br>ND<br>0.89<br>Samp<br>Batc   | h ID: 740<br>Date: 5/<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10  | 513<br>1/2023<br>SPK value<br>1.000<br>5<br>513  | F<br>SPK Ref Val<br>Tes<br>F                     | RunNo: 9<br>SeqNo: 3<br>%REC<br>88.9<br>tCode: El<br>RunNo: 9   | 5448<br>494774<br>LowLimit<br>70<br>PA Method<br>6448   | Units: mg/K<br>HighLimit<br>130<br>8021B: Volat  | Sg<br>%RPD<br>tiles | RPDLimit | Qual |
| Ethylbenzene         0.85         0.048         0.9643         0         87.9         72.7         129           Xylenes, Total         2.5         0.096         2.893         0         87.1         75.7         126  | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2304a19-003ams<br>Client ID: BG23-02 2'<br>Prep Date: 4/27/2023                                  | Batc<br>Analysis I<br>Result<br>ND<br>ND<br>ND<br>0.89<br>Samp<br>Batc<br>Analysis I                                   | A ID: 740<br>Date: 5/<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: MS<br>Type: MS<br>Date: 5/                                    | 513<br>1/2023<br>SPK value<br>1.000<br>5<br>513<br>2/2023  | F<br>SPK Ref Val<br>Tes<br>F                     | RunNo: 9<br>SeqNo: 3<br>%REC<br>88.9<br>tCode: El<br>RunNo: 9<br>SeqNo: 3                                 | 5448<br>494774<br>LowLimit<br>70<br>PA Method<br>5448<br>494780                                     | Units: mg/K<br>HighLimit<br>130<br>8021B: Volat<br>Units: mg/K                                   | Kg<br>%RPD<br>tiles |          |      |
| Xylenes, Total         2.5         0.096         2.893         0         87.1         75.7         126   | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2304a19-003ams<br>Client ID: BG23-02 2'<br>Prep Date: 4/27/2023                                  | Batc<br>Analysis I<br>Result<br>ND<br>ND<br>ND<br>0.89<br>Samp<br>Batc<br>Analysis I<br>Result                         | h ID: 740<br>Date: 5/<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Fype: MS<br>h ID: 740<br>Date: 5/                                   | 513<br>1/2023<br>SPK value<br>1.000<br>5<br>513<br>2/2023<br>SPK value                               | F<br>SPK Ref Val<br>Tes<br>F<br>SPK Ref Val      | RunNo: 9<br>SeqNo: 3<br>%REC<br>88.9<br>tCode: El<br>RunNo: 9<br>SeqNo: 3<br>%REC                         | 5448<br>494774<br>LowLimit<br>70<br>PA Method<br>6448<br>494780<br>LowLimit                         | Units: <b>mg/K</b><br>HighLimit<br>130<br><b>8021B: Volat</b><br>Units: <b>mg/K</b><br>HighLimit | Kg<br>%RPD<br>tiles |          |      |
|  | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2304a19-003ams<br>Client ID: BG23-02 2'<br>Prep Date: 4/27/2023<br>Analyte                       | Batc<br>Analysis I<br>Result<br>ND<br>ND<br>ND<br>0.89<br>Samp<br>Batc<br>Analysis I<br>Result<br>0.87                 | h ID: 740<br>Date: 5/<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: MS<br>h ID: 740<br>Date: 5/<br>PQL<br>0.024                   | 513<br>1/2023<br>SPK value<br>1.000<br>5<br>513<br>2/2023<br>SPK value<br>0.9643                     | F<br>SPK Ref Val<br>Tes<br>F<br>SPK Ref Val<br>0 | RunNo: 9<br>SeqNo: 3<br>%REC<br>88.9<br>tCode: Ef<br>RunNo: 9<br>SeqNo: 3<br>%REC<br>90.4                 | 5448<br>494774<br>LowLimit<br>70<br>PA Method<br>5448<br>494780<br>LowLimit<br>68.8                 | Units: mg/K<br>HighLimit<br>130<br>8021B: Volat<br>Units: mg/K<br>HighLimit<br>120               | Kg<br>%RPD<br>tiles |          |      |
| Surr: 4-Bromofluorobenzene         0.85         0.9643         87.7         70         130   | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2304a19-003ams<br>Client ID: BG23-02 2'<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene            | Batc<br>Analysis I<br>Result<br>ND<br>ND<br>ND<br>0.89<br>Samp<br>Batc<br>Analysis I<br>Result<br>0.87<br>0.87         | h ID: 740<br>Date: 5/<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: MS<br>h ID: 740<br>Date: 5/<br>PQL<br>0.024<br>0.024<br>0.048 | 513<br>1/2023<br>SPK value<br>1.000<br>5<br>513<br>2/2023<br>SPK value<br>0.9643<br>0.9643           | F<br>SPK Ref Val<br>Tes<br>SPK Ref Val<br>0<br>0 | RunNo: 9<br>SeqNo: 3<br>%REC<br>88.9<br>tCode: El<br>RunNo: 9<br>SeqNo: 3<br>%REC<br>90.4<br>90.2         | 5448<br>494774<br>LowLimit<br>70<br>70<br>74 Method<br>5448<br>494780<br>LowLimit<br>68.8<br>73.6   | Units: mg/K<br>HighLimit<br>130<br>8021B: Volat<br>Units: mg/K<br>HighLimit<br>120<br>124        | Kg<br>%RPD<br>tiles |          |      |
|  | Sample ID: mb-74613<br>Client ID: PBS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2304a19-003ams<br>Client ID: BG23-02 2'<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene | Batc<br>Analysis I<br>Result<br>ND<br>ND<br>ND<br>0.89<br>Samp<br>Batc<br>Analysis I<br>Result<br>0.87<br>0.87<br>0.85 | h ID: 740<br>Date: 5/<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: MS<br>h ID: 740<br>Date: 5/<br>PQL<br>0.024<br>0.048<br>0.048 | 513<br>1/2023<br>SPK value<br>1.000<br>5<br>513<br>2/2023<br>SPK value<br>0.9643<br>0.9643<br>0.9643 | F<br>SPK Ref Val                                 | RunNo: 9<br>SeqNo: 3<br>%REC<br>88.9<br>tCode: El<br>RunNo: 9<br>SeqNo: 3<br>%REC<br>90.4<br>90.2<br>87.9 | 5448<br>494774<br>LowLimit<br>70<br>74 Method<br>5448<br>494780<br>LowLimit<br>68.8<br>73.6<br>72.7 | Units: mg/K<br>HighLimit<br>130<br>8021B: Volat<br>Units: mg/K<br>HighLimit<br>120<br>124<br>129 | Kg<br>%RPD<br>tiles |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#: 2304A19

03-May-23

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2304A19

03-May-23

| Client:  | Devon Energy           |
|----------|------------------------|
| Project: | Laguna Salado 22 Fed 4 |

| Sample ID: 2304a19-003am   | sd Samp  | Гуре: МS   | Sample ID: 2304a19-003amsd       SampType: MSD       TestCode: EPA Method 8021B: Volatiles |                                 |   |   |  |                     |               |      |  |
|--|--|--|--|---------------------------------|---|---|--|---------------------|---------------|------|--|
| Client ID: BG23-02 2'  | Batc   | h ID: <b>74</b>  | 613  | R                               | lunNo: 9  | 6448  |  |                     |               |      |  |
| Prep Date: 4/27/2023   | Analysis [   | Date: 5/   | 2/2023   | 2/2023 SeqNo: 3494781           |   |   |  | Units: <b>mg/Kg</b> |               |      |  |
| Analyte  | Result   | PQL  | SPK value  | SPK Ref Val                     | %REC  | LowLimit  | HighLimit  | %RPD                | RPDLimit      | Qual |  |
| Benzene  | 0.82   | 0.024  | 0.9634   | 0                               | 85.4  | 68.8  | 120  | 5.78                | 20            |      |  |
| Toluene  | 0.85   | 0.048  | 0.9634   | 0                               | 88.3  | 73.6  | 124  | 2.25                | 20            |      |  |
| Ethylbenzene   | 0.85   | 0.048  | 0.9634   | 0                               | 87.8  | 72.7  | 129  | 0.232               | 20            |      |  |
| Xylenes, Total   | 2.5  | 0.096  | 2.890  | 0                               | 87.2  | 75.7  | 126  | 0.0394              | 20            |      |  |
|  |  |  |  |                                 |   |   |  |                     |               |      |  |
| Surr: 4-Bromofluorobenzene   | 0.88   |  | 0.9634   |                                 | 91.0  | 70  | 130  | 0                   | 0             |      |  |
| Surr: 4-Bromofluorobenzene Sample ID: Ics-74613  |  | Гуре: <b>LC</b>  |  | Tesi                            |   | -   | 130<br>8021B: Volat                                    |                     | 0             |      |  |
|  | Samp   | Гуре: <b>LC</b><br>h ID: <b>74</b>                           | S  |                                 |   | PA Method   |  |                     | 0             |      |  |
| Sample ID: Ics-74613   | Samp   | h ID: <b>74</b> 0  | S<br>613   | R                               | tCode: Ef   | PA Method   |  | iles                | 0             |      |  |
| Sample ID: Ics-74613<br>Client ID: LCSS  | Samp <sup>¬</sup><br>Batc                            | h ID: <b>74</b> 0  | S<br>613<br>1/2023   | R                               | tCode: EF   | PA Method   | 8021B: Volat   | iles                | 0<br>RPDLimit | Qual |  |
| Sample ID: Ics-74613<br>Client ID: LCSS<br>Prep Date: 4/27/2023                                  | Samp<br>Batc<br>Analysis [                           | h ID: <b>74</b><br>Date: <b>5</b> /                          | S<br>613<br>1/2023   | R                               | tCode: EF<br>tunNo: 90<br>SeqNo: 34                         | PA Method<br>6448<br>494814                         | 8021B: Volat<br>Units: mg/K                            | iles<br>G           |               | Qual |  |
| Sample ID: Ics-74613<br>Client ID: LCSS<br>Prep Date: 4/27/2023<br>Analyte                       | Samp<br>Batc<br>Analysis I<br>Result                 | h ID: <b>74</b><br>Date: <b>5</b> /                          | <b>S</b><br>613<br>1/2023<br>SPK value   | R<br>S<br>SPK Ref Val           | Code: EF<br>CunNo: 90<br>GeqNo: 34<br>%REC                  | PA Method<br>6448<br>494814<br>LowLimit             | 8021B: Volat<br>Units: mg/K<br>HighLimit               | iles<br>G           |               | Qual |  |
| Sample ID: Ics-74613<br>Client ID: LCSS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene            | Samp<br>Batc<br>Analysis I<br>Result<br>0.88         | h ID: <b>74</b><br>Date: <b>5</b> /<br>PQL<br>0.025          | S<br>613<br>1/2023<br>SPK value<br>1.000   | R<br>S<br>SPK Ref Val<br>0      | tCode: EF<br>tunNo: 96<br>SeqNo: 34<br>%REC<br>88.0         | PA Method<br>6448<br>494814<br>LowLimit<br>80       | 8021B: Volat<br>Units: mg/K<br>HighLimit<br>120        | iles<br>G           |               | Qual |  |
| Sample ID: Ics-74613<br>Client ID: LCSS<br>Prep Date: 4/27/2023<br>Analyte<br>Benzene<br>Toluene | Samp<br>Batc<br>Analysis I<br>Result<br>0.88<br>0.87 | h ID: <b>74</b><br>Date: <b>5</b> /<br>PQL<br>0.025<br>0.050 | <b>S</b><br>613<br>1/2023<br>SPK value<br>1.000<br>1.000                                   | R<br>S<br>SPK Ref Val<br>0<br>0 | tCode: EF<br>RunNo: 96<br>SeqNo: 34<br>%REC<br>88.0<br>87.1 | PA Method<br>6448<br>494814<br>LowLimit<br>80<br>80 | 8021B: Volat<br>Units: mg/k<br>HighLimit<br>120<br>120 | iles<br>G           |               | Qual |  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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| HALL<br>ENVIRO<br>ANALYS<br>LABORA         |                                     | AL.               | TE.                | L: 505-345-3                 | tal Analysis Labo<br>4901 Hawki<br>Albuquerque. NM<br>975 FAX: 505-345<br>Adlenvironmenta | ns NE<br>87109 <b>San</b><br>-4107 | nple Log-In (   | Check List           |
|--|-------------------------------------|-------------------|--------------------|------------------------------|---|------------------------------------|---|----------------------|
| Client Name: E                             | Devon Ene                           | ſġŷ               | Work               | Order Numt                   | per: 2304A19  |                                    | RcptNc  | ): <b>1</b>          |
|  | Juan Roja<br>Tracy Cas<br><i>Mi</i> |                   | 4/25/20            | 23 7:20:00 /<br>23 8:49:06 / |   | How & B                            |   |                      |
| Chain of Custo                             |                                     |                   |                    |                              |   |                                    |   |                      |
| 1. Is Chain of Cus                         | tody comp                           | ete?              |                    |                              | Yes 🗌   | No 🗹                               | Not Present   |                      |
| 2. How was the sa                          | ample deliv                         | ered?             |                    |                              | Courier   |                                    |   |                      |
| Log In<br>3. Was an attempt                | t made to c                         | ool the sampl     | es?                |                              | Yes 🗹   | No 🗌                               | na 🗌  |                      |
| 4. Were all sample                         | es received                         | at a temperat     | ure of >0° C       | to 6.0°C                     | Yes 🗹   | No 🗌                               | NA 🗌  |                      |
| 5. Sample(s) in pro                        | oper contai                         | ner(s)?           |                    |                              | Yes 🗹   | No 🗌                               |   |                      |
| 6. Sufficient sampl                        | e volume fo                         | or indicated te   | st(s)?             |                              | Yes 🗹   | No 🗌                               |   |                      |
| 7. Are samples (ex                         | cept VOA                            | and ONG) pro      | perly preserve     | ed?                          | Yes 🗹   | No 🗋                               |   |                      |
| 8. Was preservativ                         | e added to                          | bottles?          |                    |                              | Yes 🗌   | No 🗹                               | NA 🗌  |                      |
| 9. Received at least                       | st 1 vial with                      | n headspace <     | <1/4" for AQ V     | /OA?                         | Yes   | No 🗌                               |   |                      |
| 10. Were any samp                          |                                     |                   |                    |                              | Yes   | No 🗹                               |   |                      |
| 11. Does paperwork<br>(Note discrepan      | match bot                           | tle labels?       |                    |                              | Yes 🗹   | No 🗌                               | # of preserved<br>bottles checked<br>for pH:<br>(<2 o | or >12 unless poted) |
| 12. Are matrices con                       | rrectly ident                       | tified on Chain   | of Custody?        |                              | Yes 🗹   | No 🗌                               | Adjusted?   |                      |
| 13. Is it clear what a                     | nalyses we                          | re requested?     | )                  |                              | Yes 🗹   | No 🗌                               |   | ny125/23             |
| 14. Were all holding<br>(If no, notify cus |                                     |                   |                    |                              | Yes 🗹   | No 🗌                               | Checked by:   | jn 4120125           |
| Special Handlin                            | g (if app                           | licable)          |                    |                              |   |                                    |   |                      |
| 15. Was client notif                       | ied of all di                       | screpancies w     | ith this order?    | >                            | Yes 🗌   | No 🗌                               | NA 🗹  |                      |
| Person N<br>By Whom<br>Regarding           | ı:<br>g:                            |                   |                    | Date:<br>Via:                | eMail 🗌   | Phone 🗌 Fax                        | In Person   |                      |
| Client Inst                                |                                     | walling addre     | ss, phone nur      | nber,and Em                  | nail missing on C   | UC- TMC 4/25/2                     | 23  |                      |
| 16. Additional rema                        |                                     |                   |                    |                              |   |                                    |   |                      |
| 17. <u>Cooler Inform</u>                   | The second second                   | Co-differen       | Contract           | 0111                         | 010-1   | 0                                  |   |                      |
| Cooler No                                  | Temp ⁰C<br>4.7                      | Condition<br>Good | Seal Intact<br>Yes | Seal No<br>Morty             | Seal Date   | Signed By                          |   |                      |
|  |                                     | 1                 |                    |                              |   |                                    |   |                      |

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Received by OCD: 1/8/2025 1:37:44 PM

| C                         | hain                  | -of-Cu             | istody Record               | Turn-Arou               | und Time:             |   | HALL ENVIRONMENT  |  |                      |                    |              |               |                            |            |                 |                                 |          |      |       |   |  |
|---------------------------|-----------------------|--------------------|-----------------------------|-------------------------|-----------------------|---|---|--|----------------------|--------------------|--------------|---------------|----------------------------|------------|-----------------|---------------------------------|----------|------|-------|---|--|
| Client:                   |                       | on /v              |                             | D Stand                 | ard <b>Ru</b><br>ame: | sh <u>5Duy</u>                                      |   |  |                      |                    |              |               |                            |            |                 |                                 | 301      |      |       |   |  |
| Mailing                   | Address               | " On               | file                        | Lagu<br>Project#:       | ina Salado            | sh <u>5Du¥</u><br>22Fed 4                           | _   | www.hallenvironmental.com<br>4901 Hawkins NE - Albuquerque, NM 87109<br>Tel. 505-345-3975 Fax 505-345-4107 |                      |                    |              |               |                            |            |                 |                                 |          |      |       |   |  |
| Phone                     | #:                    |                    | 1                           | -                       | 01414                 |   |   | Analysis Request   |                      |                    |              |               |                            |            |                 |                                 |          |      |       |   |  |
| email o                   | r Fax#:               |                    | 1                           | Project M               |                       |   |   | Ô  |                      |                    |              |               | SO4                        |            |                 |                                 |          |      |       |   |  |
| QA/QC<br>□ Star           | Package:<br>dard      |                    | □ Level 4 (Full Validation) | Kent                    | Stallings             |   | TMB's (8021)<br>/ DRO / MRO<br>8082 PCB's<br>1.1)<br>1.1)<br>8270SIMS<br>8270SIMS<br>8270SIMS<br>esent/Absent<br>esent/Absent |  |                      |                    |              |               |                            |            |                 |                                 |          |      |       |   |  |
|                           |                       | □ Az Co<br>□ Other | mpliance                    | Sampler:<br>On Ice:     | Yes                   | □ No  | / TMB's<br>(0 / DRC<br>s/8082 P<br>s/8082 P<br>s/8082 P<br>(04.1)<br>or 82705<br>or 82705<br>or 82705<br>A<br>(A)             |  |                      |                    | 3.5          | 9 2<br>9 2    |                            |            |                 |                                 |          |      |       |   |  |
|                           | (Type)                |                    |                             | # of Coole<br>Cooler Te |                       | HU14+4<br>4.9-0.1=4.7 (°C)                          | / MTBE  | TPH:8015D(GRO / DRO / MRO)   | 8081 Pesticides/8082 | EDB (Method 504.1) | PAHs by 8310 | RCRA 8 Metals | Q F, Br, NO <sub>3</sub> , | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |          |      |       |   |  |
| Date                      | Time                  | Matrix             | Sample Name                 | Container<br>Type and   |                       | HEAL No.  | XAL   | TPH:8  | 8081                 | EDB (              | PAHs         | RCRA          | ц,<br>Ю                    | 8260       | 8270 (          | Total (                         |          |      | -     |   |  |
| 4/21/23                   | 8:35                  | Svil               | BG23-01 8'                  | 402 ja                  | - ice                 | 001   |   | V  |                      |                    |              |               | $\checkmark$               |            |                 | - State                         |          |      |       |   |  |
|                           | 8:28                  | <u> </u>           | BG23-02 0'                  |                         |                       | 002   |   |  |                      | 1.00               | a            |               |                            |            |                 |                                 | 250.00   | maje |       |   |  |
|                           | 9:34                  |                    | BG23-02 2'                  |                         |                       | 003   | Π   |  |                      |                    |              |               |                            |            | -               |                                 | - intra- |      |       | Τ |  |
|                           | 9:40                  |                    | R923-02 4'                  |                         |                       | 004   | Π   | Π  |                      |                    |              |               |                            |            |                 |                                 | 1.500    |      |       |   |  |
|                           | 9:55                  |                    | BG23-02 6'                  |                         |                       | 005   | П   |  |                      | 2                  |              |               |                            |            |                 |                                 |          |      |       |   |  |
|                           | 10:18                 |                    | BG23-02 8'                  |                         | 1 1 2 1 2             | 000   |   | Π  |                      |                    |              | as sec        |                            |            |                 |                                 | 1000     |      | 110CT |   |  |
|                           | 8:19                  |                    | BH23-40 0'                  |                         |                       | 007   |   |  |                      |                    |              |               |                            |            | - 7.0           |                                 |          |      |       |   |  |
|                           |                       |                    | di di prove                 |                         |                       |   |   |  |                      |                    |              |               |                            |            |                 |                                 | -        |      | 2     |   |  |
|                           |                       |                    |                             |                         |                       |   |   |  |                      | -                  | -            |               |                            |            |                 |                                 |          |      | _     | _ |  |
| Date:                     | Time:                 | Relinquish         | ed by:                      | Received by             | : Via:                | Date Time   | Rer   | nark   | s: D.                | Cert               | - h          |               | Nev                        |            |                 |                                 |          |      |       | 0 |  |
| Upiloz<br>Date:<br>Uniloz | 1600<br>Time:<br> 900 | Rolinquish         | WMCGA<br>ed by:<br>UMS      | Rečeivéd by             | $7 \Lambda$           | <u>42123 105</u><br>Date Time<br><u>412573 7:20</u> |   |  |                      |                    |              | 61            |                            |            |                 |                                 |          |      |       |   |  |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 4/17/2025 1:37:41 PM



September 11, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX:

RE: Laguna Salado 22 Fed 4 Pasture

OrderNo.: 2308F18

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 8/29/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Project:** 

Lab ID:

Analyses

**Analytical Report** Lab Order 2308F18

Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG23-01 0' Laguna Salado 22 Fed 4 Pasture Collection Date: 8/25/2023 10:05:00 AM 2308F18-001 Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH IN

| Diesel Range Organics (DRO)      | ND   | 9.9      | mg/Kg | 1  | 8/30/2023 4:10:27 AM |
|----------------------------------|------|----------|-------|----|----------------------|
| Motor Oil Range Organics (MRO)   | ND   | 49       | mg/Kg | 1  | 8/30/2023 4:10:27 AM |
| Surr: DNOP                       | 84.6 | 69-147   | %Rec  | 1  | 8/30/2023 4:10:27 AM |
| EPA METHOD 8015D: GASOLINE RANGE |      |          |       |    | Analyst: KMN         |
| Gasoline Range Organics (GRO)    | ND   | 5.0      | mg/Kg | 1  | 9/1/2023 2:29:00 PM  |
| Surr: BFB                        | 96.2 | 15-244   | %Rec  | 1  | 9/1/2023 2:29:00 PM  |
| EPA METHOD 8021B: VOLATILES      |      |          |       |    | Analyst: KMN         |
| Benzene                          | ND   | 0.025    | mg/Kg | 1  | 9/1/2023 2:29:00 PM  |
| Toluene                          | ND   | 0.050    | mg/Kg | 1  | 9/1/2023 2:29:00 PM  |
| Ethylbenzene                     | ND   | 0.050    | mg/Kg | 1  | 9/1/2023 2:29:00 PM  |
| Xylenes, Total                   | ND   | 0.099    | mg/Kg | 1  | 9/1/2023 2:29:00 PM  |
| Surr: 4-Bromofluorobenzene       | 91.7 | 39.1-146 | %Rec  | 1  | 9/1/2023 2:29:00 PM  |
| EPA METHOD 300.0: ANIONS         |      |          |       |    | Analyst: JMT         |
| Chloride                         | ND   | 60       | mg/Kg | 20 | 8/30/2023 6:18:11 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 1 of 20

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**CLIENT:** Devon Energy

Project:

Analytical Report Lab Order 2308F18

Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Fed 4 Pasture

Client Sample ID: BG23-01 2' Collection Date: 8/25/2023 10:10:00 AM Received Date: 8/29/2023 7:55:00 AM

| Lab ID: 2308F18-002             | Matrix: SOIL | Rece     | eived Date: | e: 8/29/2023 7:55:00 AM |                      |  |  |  |
|---------------------------------|--------------|----------|-------------|-------------------------|----------------------|--|--|--|
| Analyses                        | Result       | RL Qu    | al Units    | DF                      | Date Analyzed        |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |             |                         | Analyst: DGH         |  |  |  |
| Diesel Range Organics (DRO)     | ND           | 9.8      | mg/Kg       | 1                       | 8/30/2023 4:21:08 AM |  |  |  |
| Motor Oil Range Organics (MRO)  | ND           | 49       | mg/Kg       | 1                       | 8/30/2023 4:21:08 AM |  |  |  |
| Surr: DNOP                      | 90.0         | 69-147   | %Rec        | 1                       | 8/30/2023 4:21:08 AM |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG | GE           |          |             |                         | Analyst: KMN         |  |  |  |
| Gasoline Range Organics (GRO)   | ND           | 4.9      | mg/Kg       | 1                       | 9/1/2023 2:51:00 PM  |  |  |  |
| Surr: BFB                       | 99.6         | 15-244   | %Rec        | 1                       | 9/1/2023 2:51:00 PM  |  |  |  |
| EPA METHOD 8021B: VOLATILES     |              |          |             |                         | Analyst: KMN         |  |  |  |
| Benzene                         | ND           | 0.024    | mg/Kg       | 1                       | 9/1/2023 2:51:00 PM  |  |  |  |
| Toluene                         | ND           | 0.049    | mg/Kg       | 1                       | 9/1/2023 2:51:00 PM  |  |  |  |
| Ethylbenzene                    | ND           | 0.049    | mg/Kg       | 1                       | 9/1/2023 2:51:00 PM  |  |  |  |
| Xylenes, Total                  | ND           | 0.097    | mg/Kg       | 1                       | 9/1/2023 2:51:00 PM  |  |  |  |
| Surr: 4-Bromofluorobenzene      | 92.8         | 39.1-146 | %Rec        | 1                       | 9/1/2023 2:51:00 PM  |  |  |  |
| EPA METHOD 300.0: ANIONS        |              |          |             |                         | Analyst: JMT         |  |  |  |
| Chloride                        | 1700         | 60       | mg/Kg       | 20                      | 8/30/2023 6:30:35 PM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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\*

**CLIENT:** Devon Energy

Project:

Analytical Report Lab Order 2308F18

Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Fed 4 Pasture

Client Sample ID: BG23-02 0' Collection Date: 8/25/2023 10:15:00 AM Received Date: 8/29/2023 7:55:00 AM

| Lab ID: 2308F18-003              | Matrix: SOIL | 023 7:55:00 AM |          |    |                      |
|----------------------------------|--------------|----------------|----------|----|----------------------|
| Analyses                         | Result       | RL Qu          | al Units | DF | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                |          |    | Analyst: DGH         |
| Diesel Range Organics (DRO)      | ND           | 9.6            | mg/Kg    | 1  | 8/30/2023 4:31:47 AM |
| Motor Oil Range Organics (MRO)   | ND           | 48             | mg/Kg    | 1  | 8/30/2023 4:31:47 AM |
| Surr: DNOP                       | 84.1         | 69-147         | %Rec     | 1  | 8/30/2023 4:31:47 AM |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                |          |    | Analyst: KMN         |
| Gasoline Range Organics (GRO)    | ND           | 4.8            | mg/Kg    | 1  | 9/1/2023 3:13:00 PM  |
| Surr: BFB                        | 98.2         | 15-244         | %Rec     | 1  | 9/1/2023 3:13:00 PM  |
| EPA METHOD 8021B: VOLATILES      |              |                |          |    | Analyst: KMN         |
| Benzene                          | ND           | 0.024          | mg/Kg    | 1  | 9/1/2023 3:13:00 PM  |
| Toluene                          | ND           | 0.048          | mg/Kg    | 1  | 9/1/2023 3:13:00 PM  |
| Ethylbenzene                     | ND           | 0.048          | mg/Kg    | 1  | 9/1/2023 3:13:00 PM  |
| Xylenes, Total                   | ND           | 0.097          | mg/Kg    | 1  | 9/1/2023 3:13:00 PM  |
| Surr: 4-Bromofluorobenzene       | 92.7         | 39.1-146       | %Rec     | 1  | 9/1/2023 3:13:00 PM  |
| EPA METHOD 300.0: ANIONS         |              |                |          |    | Analyst: JMT         |
| Chloride                         | ND           | 60             | mg/Kg    | 20 | 8/30/2023 6:43:00 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG23-02 2' **Project:** Laguna Salado 22 Fed 4 Pasture Collection Date: 8/25/2023 10:30:00 AM Lab ID: 2308F18-004 Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 8/30/2023 4:42:27 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 4:42:27 AM Surr: DNOP 87.2 69-147 %Rec 1 8/30/2023 4:42:27 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 3:35:00 PM 4.8 mg/Kg 1 Surr: BFB 95.9 15-244 %Rec 1 9/1/2023 3:35:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 3:35:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/1/2023 3:35:00 PM Ethylbenzene ND 0.048 mg/Kg 1 9/1/2023 3:35:00 PM Xylenes, Total ND 0.096 mg/Kg 1 9/1/2023 3:35:00 PM Surr: 4-Bromofluorobenzene 91.8 39.1-146 %Rec 1 9/1/2023 3:35:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg Chloride 8/30/2023 7:32:38 PM 970 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 4 of 20

Date Reported: 9/11/2023

9/1/2023 3:56:00 PM

8/31/2023 1:49:21 PM

Analyst: SNS

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-01 0 **Project:** Laguna Salado 22 Fed 4 Pasture Collection Date: 8/25/2023 10:45:00 AM Lab ID: 2308F18-005 Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 8/30/2023 4:53:10 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/30/2023 4:53:10 AM Surr: DNOP 90.6 69-147 %Rec 1 8/30/2023 4:53:10 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 3:56:00 PM 4.8 mg/Kg 1 Surr: BFB 100 15-244 %Rec 1 9/1/2023 3:56:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 3:56:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/1/2023 3:56:00 PM Ethylbenzene ND 0.048 mg/Kg 1 9/1/2023 3:56:00 PM Xylenes, Total ND 0.096 mg/Kg 1 9/1/2023 3:56:00 PM

# Surr: 4-Bromofluorobenzene 93.0 39.1-146 %Rec EPA METHOD 300.0: ANIONS %Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

1

500

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**CLIENT:** Devon Energy

Project:

**Analytical Report** Lab Order 2308F18

Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Fed 4 Pasture

Client Sample ID: BH23-01 2' Collection Date: 8/25/2023 10:50:00 AM Received Date: 8/29/2023 7:55:00 AM

| Lab ID: 2308F18-006             | Matrix: SOIL | Reco     | Received Date: 8/29/2023 7:55:00 AM |    |                      |  |  |  |  |
|---------------------------------|--------------|----------|-------------------------------------|----|----------------------|--|--|--|--|
| Analyses                        | Result       | RL Qu    | al Units                            | DF | Date Analyzed        |  |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |                                     |    | Analyst: DGH         |  |  |  |  |
| Diesel Range Organics (DRO)     | ND           | 9.9      | mg/Kg                               | 1  | 8/30/2023 5:03:50 AM |  |  |  |  |
| Motor Oil Range Organics (MRO)  | ND           | 50       | mg/Kg                               | 1  | 8/30/2023 5:03:50 AM |  |  |  |  |
| Surr: DNOP                      | 79.6         | 69-147   | %Rec                                | 1  | 8/30/2023 5:03:50 AM |  |  |  |  |
| EPA METHOD 8015D: GASOLINE RAN  | GE           |          |                                     |    | Analyst: KMN         |  |  |  |  |
| Gasoline Range Organics (GRO)   | ND           | 4.7      | mg/Kg                               | 1  | 9/1/2023 4:40:00 PM  |  |  |  |  |
| Surr: BFB                       | 96.8         | 15-244   | %Rec                                | 1  | 9/1/2023 4:40:00 PM  |  |  |  |  |
| EPA METHOD 8021B: VOLATILES     |              |          |                                     |    | Analyst: KMN         |  |  |  |  |
| Benzene                         | ND           | 0.023    | mg/Kg                               | 1  | 9/1/2023 4:40:00 PM  |  |  |  |  |
| Toluene                         | ND           | 0.047    | mg/Kg                               | 1  | 9/1/2023 4:40:00 PM  |  |  |  |  |
| Ethylbenzene                    | ND           | 0.047    | mg/Kg                               | 1  | 9/1/2023 4:40:00 PM  |  |  |  |  |
| Xylenes, Total                  | ND           | 0.094    | mg/Kg                               | 1  | 9/1/2023 4:40:00 PM  |  |  |  |  |
| Surr: 4-Bromofluorobenzene      | 91.4         | 39.1-146 | %Rec                                | 1  | 9/1/2023 4:40:00 PM  |  |  |  |  |
| EPA METHOD 300.0: ANIONS        |              |          |                                     |    | Analyst: SNS         |  |  |  |  |
| Chloride                        | 4000         | 150      | mg/Kg                               | 50 | 8/31/2023 2:01:42 PM |  |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 6 of 20

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**Project:** 

Lab ID:

**Analytical Report** Lab Order 2308F18

Date Reported: 9/11/2023

9/1/2023 5:02:00 PM

9/1/2023 5:02:00 PM

8/31/2023 2:14:03 PM

Analyst: SNS

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-02 0 Laguna Salado 22 Fed 4 Pasture Collection Date: 8/25/2023 12:30:00 PM 2308F18-007 Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 8/30/2023 5:14:33 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/30/2023 5:14:33 AM Surr: DNOP 77.5 69-147 %Rec 1 8/30/2023 5:14:33 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 5:02:00 PM 5.0 mg/Kg 1 Surr: BFB 98.8 15-244 %Rec 1 9/1/2023 5:02:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 5:02:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 9/1/2023 5:02:00 PM Ethylbenzene ND 0.050 mg/Kg 1 9/1/2023 5:02:00 PM

#### Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 92.0 39.1-146 **EPA METHOD 300.0: ANIONS** Chloride 18000 600

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

mg/Kg

%Rec

mg/Kg

1

1

200

Р Sample pH Not In Range RL Reporting Limit

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Date Reported: 9/11/2023

9/1/2023 5:24:00 PM

8/31/2023 2:26:24 PM

Analyst: SNS

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-02 2' **Project:** Laguna Salado 22 Fed 4 Pasture Collection Date: 8/25/2023 12:45:00 PM Lab ID: 2308F18-008 Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 8/30/2023 5:25:23 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 5:25:23 AM Surr: DNOP 75.6 69-147 %Rec 1 8/30/2023 5:25:23 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 5:24:00 PM 4.8 mg/Kg 1 Surr: BFB 97.8 15-244 %Rec 1 9/1/2023 5:24:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 5:24:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/1/2023 5:24:00 PM Ethylbenzene ND 0.048 mg/Kg 1 9/1/2023 5:24:00 PM Xylenes, Total ND 0.096 mg/Kg 1 9/1/2023 5:24:00 PM

93.4

7800

39.1-146

300

%Rec

mg/Kg

1

100

**EPA METHOD 300.0: ANIONS** Chloride

Surr: 4-Bromofluorobenzene

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-03 0 **Project:** Laguna Salado 22 Fed 4 Pasture Collection Date: 8/25/2023 12:40:00 PM Lab ID: 2308F18-009 Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 8/30/2023 5:36:14 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 5:36:14 AM Surr: DNOP 80.6 69-147 %Rec 1 8/30/2023 5:36:14 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 5:46:00 PM 4.9 mg/Kg 1 Surr: BFB 101 15-244 %Rec 1 9/1/2023 5:46:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 5:46:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 9/1/2023 5:46:00 PM Ethylbenzene ND 0.049 mg/Kg 1 9/1/2023 5:46:00 PM Xylenes, Total ND 0.098 mg/Kg 1 9/1/2023 5:46:00 PM Surr: 4-Bromofluorobenzene 90.8 39.1-146 %Rec 1 9/1/2023 5:46:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 8/31/2023 2:38:44 PM 8200 300 100

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-03 2' **Project:** Laguna Salado 22 Fed 4 Pasture Collection Date: 8/25/2023 12:45:00 PM Lab ID: 2308F18-010 Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 8/30/2023 5:47:05 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 5:47:05 AM Surr: DNOP 78.1 69-147 %Rec 1 8/30/2023 5:47:05 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 6:08:00 PM 4.7 mg/Kg 1 Surr: BFB 96.3 15-244 %Rec 1 9/1/2023 6:08:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 6:08:00 PM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 9/1/2023 6:08:00 PM Ethylbenzene ND 0.047 mg/Kg 1 9/1/2023 6:08:00 PM Xylenes, Total ND 0.093 mg/Kg 1 9/1/2023 6:08:00 PM Surr: 4-Bromofluorobenzene 90.6 39.1-146 %Rec 1 9/1/2023 6:08:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 8/31/2023 2:51:06 PM 3100 150 50

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 10 of 20

Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-04 0 **Project:** Laguna Salado 22 Fed 4 Pasture Collection Date: 8/25/2023 1:45:00 PM Lab ID: 2308F18-011 Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 8/30/2023 5:57:50 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 5:57:50 AM Surr: DNOP 77.0 69-147 %Rec 1 8/30/2023 5:57:50 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 6:29:00 PM 4.7 mg/Kg 1 Surr: BFB 96.9 15-244 %Rec 1 9/1/2023 6:29:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 6:29:00 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 9/1/2023 6:29:00 PM Ethylbenzene ND 0.047 mg/Kg 1 9/1/2023 6:29:00 PM Xylenes, Total ND 0.094 mg/Kg 1 9/1/2023 6:29:00 PM Surr: 4-Bromofluorobenzene 90.6 39.1-146 %Rec 1 9/1/2023 6:29:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 8/31/2023 5:23:56 PM 67000 3000 1000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-04 2' **Project:** Laguna Salado 22 Fed 4 Pasture Collection Date: 8/25/2023 1:50:00 PM Lab ID: 2308F18-012 Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 8/31/2023 2:23:27 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/31/2023 2:23:27 PM Surr: DNOP 100 69-147 %Rec 1 8/31/2023 2:23:27 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/1/2023 12:29:17 PM 4.9 mg/Kg 1 Surr: BFB 93.6 15-244 %Rec 1 9/1/2023 12:29:17 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 9/1/2023 12:29:17 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 9/1/2023 12:29:17 PM Ethylbenzene ND 0.049 mg/Kg 1 9/1/2023 12:29:17 PM Xylenes, Total ND 0.098 mg/Kg 1 9/1/2023 12:29:17 PM Surr: 4-Bromofluorobenzene 106 39.1-146 %Rec 1 9/1/2023 12:29:17 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 8/31/2023 3:15:47 PM 5600 300 100

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

RL Rep

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| Hall Environmental Analysis Laboratory, Inc. |                 |                              |                   |           |             |                                     | WO#:     | 2308F18<br>11-Sep-23 |      |          |      |
|--|-----------------|------------------------------|-------------------|-----------|-------------|-------------------------------------|----------|----------------------|------|----------|------|
| Client:<br>Project:                          |                 | on Energy<br>1na Salado 22 H | Fed 4 Pa          | asture    |             |                                     |          |                      |      |          |      |
| Sample ID:<br>Client ID:                     | MB-77199<br>PBS |                              |                   |           |             | tCode: <b>Ef</b><br>RunNo: <b>9</b> |          | 300.0: Anions        | 5    |          |      |
| Prep Date:                                   | 8/30/2023       | Analysis D                   | )ate: <b>8/</b> 3 | 30/2023   | 5           | SeqNo: 30                           | 626420   | Units: mg/K          | g    |          |      |
| Analyte<br>Chloride                          |                 | Result<br>ND                 | PQL<br>1.5        | SPK value | SPK Ref Val | %REC                                | LowLimit | HighLimit            | %RPD | RPDLimit | Qual |

| Sample ID: LCS-77199 | SampT      | ype: LC   | s         | Tes         | tCode: EF         | PA Method | 300.0: Anions | ;    |          |      |
|----------------------|------------|-----------|-----------|-------------|-------------------|-----------|---------------|------|----------|------|
| Client ID: LCSS      | Batch      | n ID: 771 | 99        | F           | RunNo: <b>9</b> 9 | 9351      |               |      |          |      |
| Prep Date: 8/30/2023 | Analysis D | ate: 8/3  | 30/2023   | S           | SeqNo: 3          | 626421    | Units: mg/K   | g    |          |      |
| Analyte              | Result     | PQL       | SPK value | SPK Ref Val | %REC              | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Chloride             | 15         | 1.5       | 15.00     | 0           | 97.0              | 90        | 110           |      |          |      |

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Client:Devon EProject:Laguna E               | Energy<br>Salado 22 Fed 4 Pasture |  |
|--|-----------------------------------|--|
| Sample ID: LCS-77167                         | SampType: LCS                     | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS                              | Batch ID: <b>77167</b>            | RunNo: <b>99274</b>                                    |
| Prep Date: 8/29/2023                         | Analysis Date: 8/30/2023          | SeqNo: <b>3623887</b> Units: <b>mg/Kg</b>              |
| Analyte                                      | Result PQL SPK value              | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)                  | 48 10 50.00                       | 0 96.6 61.9 130  |
| Surr: DNOP                                   | 4.0 5.000                         | 79.2 69 147  |
| Sample ID: MB-77167                          | SampType: MBLK                    | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS                               | Batch ID: 77167                   | RunNo: 99274   |
| Prep Date: 8/29/2023                         | Analysis Date: 8/30/2023          | SeqNo: 3623890 Units: mg/Kg                            |
| Analyte                                      | Result PQL SPK value              | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)                  | ND 10                             |  |
| Motor Oil Range Organics (MRO)<br>Surr: DNOP | ND 50<br>10 10.00                 | 101 69 147   |
|  |                                   |  |
| Sample ID: LCS-77177                         | SampType: LCS                     | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS                              | Batch ID: 77177                   | RunNo: 99380   |
| Prep Date: 8/29/2023                         | Analysis Date: 8/31/2023          | SeqNo: 3627016 Units: %Rec                             |
| Analyte                                      | Result PQL SPK value              | 5  |
| Surr: DNOP                                   | 5.7 5.000                         | 114 69 147   |
| Sample ID: LCS-77185                         | SampType: LCS                     | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS                              | Batch ID: 77185                   | RunNo: 99380   |
| Prep Date: 8/30/2023                         | Analysis Date: 8/31/2023          | SeqNo: 3627017 Units: mg/Kg                            |
| Analyte                                      | Result PQL SPK value              | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)                  | 61 10 50.00                       | 0 121 61.9 130   |
| Surr: DNOP                                   | 6.6 5.000                         | 131 69 147   |
| Sample ID: MB-77177                          | SampType: MBLK                    | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS                               | Batch ID: 77177                   | RunNo: 99380   |
| Prep Date: 8/29/2023                         | Analysis Date: 8/31/2023          | SeqNo: 3627018 Units: %Rec                             |
| Analyte                                      | Result PQL SPK value              | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP                                   | 12 10.00                          | 116 69 147   |
| Sample ID: MB-77185                          | SampType: MBLK                    | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS                               | Batch ID: 77185                   | RunNo: 99380   |
| Prep Date: 8/30/2023                         | Analysis Date: 8/31/2023          | SeqNo: 3627019 Units: mg/Kg                            |
| Analyte                                      | Result PQL SPK value              | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)                  | ND 10                             |  |

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- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2308F18

11-Sep-23

WO#:

# **QC SUMMARY REPORT** Hall Environme

| KI KEPUKI                       | WO#: | 2308F18   |  |
|---------------------------------|------|-----------|--|
| ental Analysis Laboratory, Inc. |      | 11-Sep-23 |  |

| Client:Devon IProject:Laguna                 | Energy<br>Salado 22 Fed 4 Pasture |  |
|--|-----------------------------------|--|
| Sample ID: MB-77185                          | SampType: MBLK                    | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS                               | Batch ID: 77185                   | RunNo: 99380   |
| Prep Date: 8/30/2023                         | Analysis Date: 8/31/2023          | SeqNo: 3627019 Units: mg/Kg                            |
| Analyte                                      | Result PQL SPK value              | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Motor Oil Range Organics (MRO)<br>Surr: DNOP | ND 50<br>13 10.00                 | 126 69 147   |
| Sample ID: LCS-77176                         | SampType: LCS                     | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS                              | Batch ID: 77176                   | RunNo: 99380   |
| Prep Date: 8/29/2023                         | Analysis Date: 8/31/2023          | SeqNo: 3627544 Units: %Rec                             |
| Analyte                                      | Result PQL SPK value              | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP                                   | 5.5 5.000                         | 109 69 147   |
| Sample ID: LCS-77208                         | SampType: LCS                     | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS                              | Batch ID: 77208                   | RunNo: 99380   |
| Prep Date: 8/30/2023                         | Analysis Date: 8/31/2023          | SeqNo: 3627545 Units: %Rec                             |
| Analyte                                      | Result PQL SPK value              | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP                                   | 5.9 5.000                         | 119 69 147   |
| Sample ID: LCS-77213                         | SampType: LCS                     | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS                              | Batch ID: 77213                   | RunNo: 99380   |
| Prep Date: 8/30/2023                         | Analysis Date: 8/31/2023          | SeqNo: 3627547 Units: %Rec                             |
| Analyte                                      | Result PQL SPK value              | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP                                   | 5.3 5.000                         | 105 69 147   |
| Sample ID: MB-77176                          | SampType: MBLK                    | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS                               | Batch ID: 77176                   | RunNo: 99380   |
| Prep Date: 8/29/2023                         | Analysis Date: 8/31/2023          | SeqNo: 3627552 Units: %Rec                             |
| Analyte                                      |                                   | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP                                   | 13 10.00                          | 126 69 147   |
| Sample ID: MB-77208                          | SampType: MBLK                    | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS                               | Batch ID: 77208                   | RunNo: 99380   |
| Prep Date: 8/30/2023                         | Analysis Date: 8/31/2023          | SeqNo: 3627556 Units: %Rec                             |
| Analyte                                      |                                   | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP                                   | 13 10.00                          | 131 69 147   |

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- Analyte detected in the associated Method Blank В
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- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

| WO#         Hall Environmental Analysis Laboratory, Inc. |          |                                     |   |  |  |
|--|----------|-------------------------------------|---|--|--|
| Client:<br>Project:                                      |          | Energy<br>a Salado 22 Fed 4 Pasture |   |  |  |
| Sample ID: N   | IB-77213 | SampType: MBLK                      | TestCode: EPA Method 8015M/D: Diesel Range Organics |  |  |
|  | DC.      | Batch ID: 77212                     | PunNo: 00390  |  |  |

| Client ID: PBS       | Batch ID: 77213          | RunNo: 99380              |                |               |
|----------------------|--------------------------|---------------------------|----------------|---------------|
| Prep Date: 8/30/2023 | Analysis Date: 8/31/2023 | SeqNo: 3627557            | Units: %Rec    |               |
| Analyte              | Result PQL SPK value     | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Surr: DNOP           | 11 10.00                 | 108 69                    | 147            |               |

#### **Qualifiers:**

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- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

|   | n Energy<br>na Salado 22 Fed 4 Pasture   |  |
|---|--|--|
| Sample ID: Ics-77179  | SampType: LCS  | TestCode: EPA Method 8015D: Gasoline Range   |
| Client ID: LCSS   | Batch ID: 77179  | RunNo: 99366   |
| Prep Date: 8/29/2023  | Analysis Date: 8/31/2023   | SeqNo: 3627634 Units: mg/Kg  |
| Analyte   | Result PQL SPK value   | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual   |
| Gasoline Range Organics (GRO)<br>Surr: BFB  | 23 5.0 25.00<br>2000 1000  | 0 93.6 70 130<br>203 15 244  |
| Sample ID: Ics-77198  | SampType: LCS  | TestCode: EPA Method 8015D: Gasoline Range   |
| Client ID: LCSS   | Batch ID: 77198  | RunNo: 99366   |
| Prep Date: 8/30/2023  | Analysis Date: 9/1/2023  | SeqNo: 3627635 Units: %Rec   |
| Analyte   | Result PQL SPK value   | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual   |
| Surr: BFB   | 1900 1000  | 193 15 244   |
| Sample ID: mb-77198   | SampType: MBLK   | TestCode: EPA Method 8015D: Gasoline Range   |
| Client ID: PBS  | Batch ID: 77198  | RunNo: 99366   |
| Prep Date: 8/30/2023  | Analysis Date: 9/1/2023  | SeqNo: 3627636 Units: %Rec   |
| Analyte   | Result PQL SPK value   | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual   |
| Surr: BFB   | 940 1000   | 93.9 15 244  |
|   |  |  |
| Sample ID: mb-77179   | SampType: MBLK   | TestCode: EPA Method 8015D: Gasoline Range   |
| Sample ID: mb-77179<br>Client ID: PBS   | SampType: MBLK<br>Batch ID: 77179  | TestCode: EPA Method 8015D: Gasoline Range<br>RunNo: 99366   |
|   |  | -  |
| Client ID: <b>PBS</b><br>Prep Date: <b>8/29/2023</b><br>Analyte   | Batch ID: <b>77179</b><br>Analysis Date: <b>8/31/2023</b><br>Result PQL SPK value  | RunNo: 99366   |
| Client ID: <b>PBS</b><br>Prep Date: <b>8/29/2023</b>  | Batch ID: <b>77179</b><br>Analysis Date: <b>8/31/2023</b><br>Result PQL SPK value  | RunNo: 99366<br>SeqNo: 3627706 Units: mg/Kg  |
| Client ID: <b>PBS</b><br>Prep Date: <b>8/29/2023</b><br>Analyte<br>Gasoline Range Organics (GRO)  | Batch ID: <b>77179</b><br>Analysis Date: <b>8/31/2023</b><br>Result PQL SPK value<br>ND 5.0  | RunNo: 99366<br>SeqNo: 3627706 Units: mg/Kg<br>SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual  |
| Client ID: <b>PBS</b><br>Prep Date: <b>8/29/2023</b><br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB   | Batch ID: <b>77179</b><br>Analysis Date: <b>8/31/2023</b><br>Result PQL SPK value<br>ND 5.0<br>980 1000  | RunNo: 99366         SeqNo: 3627706       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         98.3       15       244  |
| Client ID: <b>PBS</b><br>Prep Date: <b>8/29/2023</b><br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: <b>Ics-77164</b>  | Batch ID:       77179         Analysis Date:       8/31/2023         Result       PQL       SPK value         ND       5.0         980       1000         SampType:       LCS  | No: 99366         SeqNo: 3627706       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         98.3       15       244   |
| Client ID: PBS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: Ics-77164<br>Client ID: LCSS  | Batch ID: 77179<br>Analysis Date: 8/31/2023<br>Result PQL SPK value<br>ND 5.0<br>980 1000<br>SampType: LCS<br>Batch ID: 77164<br>Analysis Date: 9/1/2023   | RunNo:       99366         SeqNo:       3627706       Units:       mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         98.3       15       244              TestCode: EPA Method 8015D: Gasoline Range         RunNo:       99374   |
| Client ID: PBS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: Ics-77164<br>Client ID: LCSS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)  | Batch ID:       77179         Analysis Date:       8/31/2023         Result       PQL       SPK value         ND       5.0         980       1000         SampType:       LCS         Batch ID:       77164         Analysis Date:       9/1/2023         Result       PQL       SPK value         Analysis Date:       9/1/2023         Result       PQL       SPK value         21       5.0       25.00   | RunNo: 99366         SeqNo: 3627706       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         98.3       15       244         Val       Val         TestCode: EP+ Method 8015D: Gasoline Range         RunNo: 99374         SeqNo: 3628001       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         0       84.8       70       130       Val       Val       Val       Val |
| Client ID: PBS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: Ics-77164<br>Client ID: ICSS<br>Prep Date: 8/29/2023<br>Analyte   | Batch ID: 77179<br>Analysis Date: 8/31/2023<br>Result PQL SPK value<br>ND 5.0<br>980 1000<br>SampType: LCS<br>Batch ID: 77164<br>Analysis Date: 9/1/2023<br>Result PQL SPK value   | RunNo:       99366         SeqNo:       3627706       Units:       mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         98.3       15       244              98.3       15       244               TestCode: EPA Method 8015D: Gasoline Range         RunNo:       99374         SeqNo:       3628001       Units:       mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual                        |
| Client ID: PBS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: Ics-77164<br>Client ID: LCSS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)  | Batch ID:       77179         Analysis Date:       8/31/2023         Result       PQL       SPK value         ND       5.0         980       1000         SampType:       LCS         Batch ID:       77164         Analysis Date:       9/1/2023         Result       PQL       SPK value         Analysis Date:       9/1/2023         Result       PQL       SPK value         21       5.0       25.00   | RunNo: 99366         SeqNo: 3627706       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         98.3       15       244         Val       Val         TestCode: EP+ Method 8015D: Gasoline Range         RunNo: 99374         SeqNo: 3628001       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         0       84.8       70       130       Val       Val       Val       Val |
| Client ID: PBS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: Ics-77164<br>Client ID: LCSS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB   | Batch ID:       77179         Analysis Date:       8/31/2023         Result       PQL       SPK value         ND       5.0         980       1000         SampType:       LCS         Batch ID:       77164         Analysis Date:       9/1/2023         Result       PQL       SPK value         Analysis Date:       9/1/2023         Result       PQL       SPK value         21       5.0       25.00         2000       1000       1000  | RunNo: 99366         SeqNo: 3627706       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         98.3       15       244         Val         TestCode: EP+ Method 8015D: Gasoline Range         RunNo: 99374         SeqNo: 3628001       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         0       84.8       70       130         Qual          198       15       244      |
| Client ID: PBS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: Ics-77164<br>Client ID: LCSS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: mb-77164  | Batch ID:       77179         Analysis Date:       8/31/2023         Result       PQL       SPK value         ND       5.0         980       1000         SampType:       LCS         Batch ID:       77164         Analysis Date:       9/1/2023         Result       PQL       SPK value         Analysis Date:       9/1/2023         Result       PQL       SPK value         21       5.0       25.00         2000       1000   | RunNo: 99366       Vinits: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         98.3       15       244       Vinits: mg/Kg       Vinits: mg/Kg       Vinits: mg/Kg       Vinits: mg/Kg       Vinits: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Test-Vertextextextextextextextextextextextextext  |
| Client ID: PBS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: Ics-77164<br>Client ID: LCSS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: mb-77164<br>Client ID: PBS<br>Prep Date: 8/29/2023<br>Analyte | Batch ID:       771 79         Analysis Date:       8/31/2023         Result       PQL       SPK value         ND       5.0         980       1000         SampType:       LCS         Batch ID:       771 6/         Analysis Date:       9/1/2023         Result       PQL       SPK value         Analysis Date:       9/1/2023         Result       PQL       SPK value         21       5.0       25.00         2000       1000       1000         SampType:       MBLK         Batch ID:       7716/         Analysis Date:       9/1/2023         Result       PQL       SPK value         Analysis Date:       9/1/2023         Result       PQL       SPK value | Runko: 99366         SeqNo: 3627706       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         98.3       15       244  |
| Client ID: PBS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: Ics-77164<br>Client ID: LCSS<br>Prep Date: 8/29/2023<br>Analyte<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>Sample ID: mb-77164<br>Client ID: PBS<br>Prep Date: 8/29/2023            | Batch ID:       771 79         Analysis Date:       8/31/2023         Result       PQL       SPK value         ND       5.0         980       1000         SampType:       LCS         Batch ID:       771 6/         Analysis Date:       9/1/2023         Result       PQL       SPK value         Analysis Date:       9/1/2023         Result       PQL       SPK value         21       5.0       25.00         2000       1000       1000         SampType:       MBLK         Batch ID:       7716/         Analysis Date:       9/1/2023         Result       PQL       SPK value         Analysis Date:       9/1/2023         Result       PQL       SPK value | Runke:       99366         SeqNe:       327706       Units:       mg/K         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         98.3       15       244  |

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
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- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2308F18

11-Sep-23

WO#:

### **OC SUMMARY REPORT** H

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| L                   |           | 1 KEFOKI<br>tal Analysis I    |           | ry, Inc.    |                   |           |              |           | WO#:     | 2308F18<br>11-Sep-23 |
|---------------------|-----------|-------------------------------|-----------|-------------|-------------------|-----------|--------------|-----------|----------|----------------------|
| Client:<br>Project: |           | Energy<br>a Salado 22 Fed 4 F | Pasture   |             |                   |           |              |           |          |                      |
| Sample ID:          | lcs-77172 | SampType: L                   | cs        | Tes         | tCode: El         | PA Method | 8015D: Gasol | ine Range |          |                      |
| Client ID:          | LCSS      | Batch ID: 77                  | 7172      | F           | RunNo: <b>9</b> 9 | 9411      |              |           |          |                      |
| Prep Date:          | 8/29/2023 | Analysis Date: 9              | /2/2023   | S           | SeqNo: 3          | 628857    | Units: %Rec  |           |          |                      |
| Analyte             |           | Result PQL                    | SPK value | SPK Ref Val | %REC              | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual                 |
| Surr: BFB           |           | 1900                          | 1000      |             | 191               | 15        | 244          |           |          |                      |
| Sample ID:          | mb-77172  | SampType: <b>M</b>            | BLK       | Tes         | tCode: Ef         | PA Method | 8015D: Gasol | ine Range |          |                      |
| Client ID:          | PBS       | Batch ID: 77                  | 7172      | F           | RunNo: <b>9</b> 9 | 9411      |              |           |          |                      |
| Prep Date:          | 8/29/2023 | Analysis Date: 9              | /2/2023   | S           | SeqNo: 3          | 628859    | Units: %Rec  |           |          |                      |
| Analyte             |           | Result PQL                    | SPK value | SPK Ref Val | %REC              | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual                 |
| Surr: BFB           |           | 940                           | 1000      |             | 93.5              | 15        | 244          |           |          |                      |
| Sample ID:          | lcs-77209 | SampType: L                   | cs        | Tes         | tCode: El         | PA Method | 8015D: Gasol | ine Range |          |                      |
| Client ID:          | LCSS      | Batch ID: 77                  | 7209      | F           | RunNo: <b>9</b> 9 | 9415      |              |           |          |                      |
| Pren Date:          | 8/30/2023 | Analysis Date: 0              | 1/1/2022  | c           |                   | 620500    | Inits: %Pac  |           |          |                      |

| Sample ID: Ics-7720                  | 9 Samp Type               | e: LCS                 | les         | tCode: EF         | A Method  | 8015D: Gasol                 | ne Range  |          |      |
|--------------------------------------|---------------------------|------------------------|-------------|-------------------|-----------|------------------------------|-----------|----------|------|
| Client ID: LCSS                      | Batch ID                  | : <b>77209</b>         | F           | RunNo: <b>9</b> 9 | 9415      |                              |           |          |      |
| Prep Date: 8/30/202                  | 23 Analysis Date          | : <b>9/1/2023</b>      | 5           | SeqNo: 36         | 629500    | Units: %Rec                  |           |          |      |
| Analyte                              | Result F                  | QL SPK value           | SPK Ref Val | %REC              | LowLimit  | HighLimit                    | %RPD      | RPDLimit | Qual |
| Surr: BFB                            | 2200                      | 1000                   |             | 216               | 15        | 244                          |           |          |      |
|                                      |                           |                        |             |                   |           |                              |           |          |      |
| Sample ID: mb-7720                   | 9 SampType                | e: MBLK                | Tes         | tCode: EF         | PA Method | 8015D: Gasoli                | ine Range |          |      |
| Sample ID: mb-7720<br>Client ID: PBS |                           | e: MBLK<br>e: 77209    |             | tCode: EF         |           | 8015D: Gasoli                | ne Range  |          |      |
| -                                    | Batch ID                  | : <b>77209</b>         | F           |                   | 9415      | 8015D: Gasoli<br>Units: %Rec | U         |          |      |
| Client ID: PBS                       | Batch ID 23 Analysis Date | : 77209<br>:: 9/1/2023 | F           | RunNo: <b>99</b>  | 9415      |                              | U         | RPDLimit | Qual |

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| WO#: | 2308F18 |
|------|---------|
|      | 11 0 00 |

11-Sep-23

| Client:           | Devon En   | ergy            |                   |           |             |                     |           |               |      |          |      |
|-------------------|--|-----------------|-------------------|-----------|-------------|---------------------|-----------|---------------|------|----------|------|
| Project:          | Laguna S   | alado 22 I      | Fed 4 Pa          | asture    |             |                     |           |               |      |          |      |
| Sample ID: LC     | LCS-77179 SampType: LCS TestCode: EPA Method 8021B: Volatiles          |                 |                   |           |             |                     |           |               |      |          |      |
| Client ID: LC:    | SS   | Batch ID: 77179 |                   |           | F           | RunNo: <b>99366</b> |           |               |      |          |      |
| Prep Date: 8/     | 29/2023  | Analysis E      | Date: <b>8/</b> 3 | 31/2023   | S           | SeqNo: 3            | 627739    | Units: mg/K   | g    |          |      |
| Analyte           |  | Result          | PQL               | SPK value | SPK Ref Val | %REC                | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Benzene           |  | 1.1             | 0.025             | 1.000     | 0           | 108                 | 70        | 130           |      |          |      |
| Toluene           |  | 1.1             | 0.050             | 1.000     | 0           | 108                 | 70        | 130           |      |          |      |
| Ethylbenzene      |  | 1.1             | 0.050             | 1.000     | 0           | 111                 | 70        | 130           |      |          |      |
| Xylenes, Total    |  | 3.3             | 0.10              | 3.000     | 0           | 112                 | 70        | 130           |      |          |      |
| Surr: 4-Bromofluc | probenzene   | 1.1             |                   | 1.000     |             | 110                 | 39.1      | 146           |      |          |      |
| Sample ID: LC:    | Sample ID:     LCS     TestCode:     EPA Method 8021B:     Volatiles   |                 |                   |           |             |                     |           |               |      |          |      |
| Client ID: LC:    | SS   | Batcl           | h ID: <b>77</b> 1 | 198       | F           | RunNo: <b>9</b> 9   | 9366      |               |      |          |      |
| Prep Date: 8/     | 30/2023  | Analysis I      | Date: <b>9/</b> * | 1/2023    | S           | SeqNo: 3            | 627740    | Units: %Rec   |      |          |      |
| Analyte           |  | Result          | PQL               | SPK value | SPK Ref Val | %REC                | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluc | probenzene   | 1.1             |                   | 1.000     |             | 106                 | 39.1      | 146           |      |          |      |
| Sample ID: mb     | nple ID: mb-77198 SampType: MBLK TestCode: EPA Method 8021B: Volatiles |                 |                   |           |             |                     |           |               |      |          |      |
| Client ID: PB:    | S  | Batcl           | h ID: <b>77</b> 1 | 198       | F           | RunNo: 9            | 9366      |               |      |          |      |
| Prep Date: 8/     | 30/2023  | Analysis [      | Date: <b>9/</b> * | 1/2023    | S           | SeqNo: 3            | 627741    | Units: %Rec   |      |          |      |
| Analyte           |  | Result          | PQL               | SPK value | SPK Ref Val | %REC                | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluc | probenzene   | 1.1             |                   | 1.000     |             | 106                 | 39.1      | 146           |      |          |      |
| Sample ID: mb     | -77179   | SampT           | Гуре: МЕ          | BLK       | Tes         | tCode: EF           | PA Method | 8021B: Volati | les  |          |      |
| Client ID: PB     | s  | Batcl           | h ID: <b>77</b> 1 | 179       | F           | RunNo: <b>9</b> 9   | 9366      |               |      |          |      |
| Prep Date: 8/     | 29/2023  | Analysis [      | Date: <b>8/</b> 3 | 31/2023   | S           | SeqNo: 3            | 627742    | Units: mg/K   | g    |          |      |
| Analyte           |  | Result          | PQL               | SPK value | SPK Ref Val | %REC                | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Benzene           |  | ND              | 0.025             |           |             |                     |           | -             |      |          |      |
| Toluene           |  | ND              | 0.050             |           |             |                     |           |               |      |          |      |
| Ethylbenzene      |  | ND              | 0.050             |           |             |                     |           |               |      |          |      |
| Xylenes, Total    |  | ND              | 0.10              |           |             |                     |           |               |      |          |      |
| Surr: 4-Bromofluc | probenzene   | 1.1             |                   | 1.000     |             | 107                 | 39.1      | 146           |      |          |      |
| Sample ID: Ics    | -77164   | SampT           | Гуре: <b>LC</b>   | S         | Tes         | tCode: El           | PA Method | 8021B: Volati | les  |          |      |
| Client ID: LC:    | SS   | Batcl           | h ID: <b>77</b> 1 | 164       | F           | RunNo: 99374        |           |               |      |          |      |
| Prep Date: 8/     | 29/2023  | Analysis I      | Date: <b>9/</b> * | 1/2023    | S           | SeqNo: 3            | 628033    | Units: mg/K   | g    |          |      |
| Analyte           |  | Result          | PQL               | SPK value | SPK Ref Val | %REC                | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Benzene           |  | 0.91            | 0.025             | 1.000     | 0           | 90.7                | 70        | 130           |      |          |      |
| Toluene           |  | 0.90            | 0.050             | 1.000     | 0           | 90.3                | 70        | 130           |      |          |      |
| Ethylbenzene      |  | 0.92            | 0.050             | 1.000     | 0           | 92.2                | 70        | 130           |      |          |      |
| Xylenes, Total    |  | 2.8             | 0.10              | 3.000     | 0           | 92.2                | 70        | 130           |      |          |      |

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| Client:Devon IProject:Laguna  | Energy<br>Salado 22 Fed 4 Pasture   |   |               |  |  |  |  |  |
|---|---|---|---------------|--|--|--|--|--|
| Sample ID: Ics-77164<br>Client ID: LCSS   | SampType: LCS<br>Batch ID: 77164  | TestCode: EPA Method 8021B: Volatiles<br>RunNo: 99374                   |               |  |  |  |  |  |
| Prep Date: 8/29/2023<br>Analyte   |   | SeqNo: 3628033 Units: mg/Kg<br>SPK Ref Val %REC LowLimit HighLimit %RPD | RPDLimit Qual |  |  |  |  |  |
| Surr: 4-Bromofluorobenzene Sample ID: mb-77164  | 0.94 1.000<br>SampType: <b>MBLK</b>   | 94.3 39.1 146<br>TestCode: EPA Method 8021B: Volatiles                  |               |  |  |  |  |  |
| Client ID: PBS  | Batch ID: 77164   | RunNo: 99374  |               |  |  |  |  |  |
| Prep Date: 8/29/2023  | Analysis Date: 9/1/2023   | SeqNo: 3628034 Units: mg/Kg   |               |  |  |  |  |  |
| Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene | Result         PQL         SPK value           ND         0.025            ND         0.050            ND         0.050            ND         0.050            ND         0.100            0.90         1.000 | SPK Ref Val %REC LowLimit HighLimit %RPD<br>90.5 39.1 146               | RPDLimit Qual |  |  |  |  |  |
| Sample ID: LCS-77172 SampType: LCS TestCode: EPA Method 8021B: Volatiles                      |   |   |               |  |  |  |  |  |
| Client ID: LCSS   | Batch ID: 77172   | RunNo: <b>99411</b>   |               |  |  |  |  |  |
| Prep Date: 8/29/2023  | Analysis Date: 9/2/2023   | SeqNo: 3628971 Units: %Rec  |               |  |  |  |  |  |
| Analyte   | Result PQL SPK value  | SPK Ref Val %REC LowLimit HighLimit %RPD                                | RPDLimit Qual |  |  |  |  |  |
| Surr: 4-Bromofluorobenzene  | 1.1 1.000   | 108 39.1 146  |               |  |  |  |  |  |
| Sample ID: mb-77172   | SampType: MBLK  | TestCode: EPA Method 8021B: Volatiles                                   |               |  |  |  |  |  |
| Client ID: PBS  | Batch ID: 77172   | RunNo: <b>99411</b>   |               |  |  |  |  |  |
| Prep Date: 8/29/2023  | Analysis Date: 9/2/2023   | SeqNo: 3628973 Units: %Rec  |               |  |  |  |  |  |
| Analyte   |   | SPK Ref Val %REC LowLimit HighLimit %RPD                                | RPDLimit Qual |  |  |  |  |  |
| Surr: 4-Bromofluorobenzene  | 1.0 1.000   | 105 39.1 146  |               |  |  |  |  |  |
| Sample ID: Ics-77209  | SampType: LCS   | TestCode: EPA Method 8021B: Volatiles                                   |               |  |  |  |  |  |
| Client ID: LCSS   | Batch ID: 77209   | RunNo: <b>99415</b>   |               |  |  |  |  |  |
| Prep Date: 8/30/2023  | Analysis Date: 9/1/2023   | SeqNo: 3629583 Units: %Rec  |               |  |  |  |  |  |
| Analyte   |   | SPK Ref Val %REC LowLimit HighLimit %RPD                                | RPDLimit Qual |  |  |  |  |  |
| Surr: 4-Bromofluorobenzene  | 0.91 1.000  | 90.9 39.1 146   |               |  |  |  |  |  |
| Sample ID: mb-77209   | SampType: MBLK  | TestCode: EPA Method 8021B: Volatiles                                   |               |  |  |  |  |  |
| Client ID: PBS  | Batch ID: 77209   | RunNo: <b>99415</b>   |               |  |  |  |  |  |
| Prep Date: 8/30/2023  | Analysis Date: 9/1/2023   | SeqNo: 3629584 Units: %Rec  |               |  |  |  |  |  |
| Analyte   | Result PQL SPK value  | SPK Ref Val %REC LowLimit HighLimit %RPD                                | RPDLimit Qual |  |  |  |  |  |

Surr: 4-Bromofluorobenzene

Qualifiers:

Value exceeds Maximum Contaminant Level. \*

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

0.91

Analyte detected in the associated Method Blank В

90.6

39.1

146

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

1.000

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2308F18

11-Sep-23

WO#:

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY |  | Hall Environmental Analysis Laboratory<br>4901 Hawkins NE<br>Albuquerque, NM 87109<br>TEL: 505-345-3975 FAX: 505-345-4107<br>Website: www.hallenvironmental.com |   | Sam       | nple Log-In Check List                                 |
|---|--|---|---|-----------|--|
| Client Name: D                                  | Devon Energy                                       | Work Order Number:  | 2308F18   |           | RcptNo: 1  |
| Received By:                                    | Tracy Casarrubias                                  | 8/29/2023 7:55:00 AM  |   |           |  |
| Completed By:                                   | Tracy Casarrubias                                  | 8/29/2023 8:21:59 AM  |   |           |  |
| Reviewed By:                                    | K 8-29-23  |   |   |           |  |
| Chain of Custo                                  | ody  |   |   |           |  |
| 1. Is Chain of Cus                              | tody complete?                                     |   | Yes 🗌   | No 🗹      | Not Present  |
| 2. How was the sa                               | ample delivered?                                   |   | <u>Courier</u>  |           |  |
| Log In  |  |   |   |           |  |
|   | t made to cool the samples?                        |   | Yes 🗹   | No 🗌      | NA 🗌   |
| 4. Were all sample                              | es received at a temperature of                    | of >0° C to 6.0°C   | Yes 🗹   | No 🗌      |  |
| 5. Sample(s) in pro                             | oper container(s)?                                 |   | Yes 🔽   | No 🗌      |  |
| 6. Sufficient sampl                             | e volume for indicated test(s)                     | ?   | Yes 🔽   | No 🗌      |  |
| 7. Are samples (ex                              | cept VOA and ONG) properly                         | preserved?  | Yes 🔽   | No 🗌      |  |
| 8. Was preservativ                              | e added to bottles?                                |   | Yes   | No 🗹      | NA 🗌   |
| 9. Received at least                            | st 1 vial with headspace <1/4"                     | for AQ VOA?   | Yes   | No 🗌      | NA 🗹   |
| 10. Were any samp                               | ble containers received broker                     | 1?  | Yes   | No 🔽      | # of preserved   |
|   | match bottle labels?<br>cies on chain of custody)  |   | Yes 🗸   | No 🗌      | bottles checked<br>for pH:<br>(<2 or >12 upless noted) |
|   | rrectly identified on Chain of (                   | Custody?  | Yes 🗹   | No 🗌      | Adjusted?  |
|   | analyses were requested?                           | usiouy:   | Yes 🗹   | No 🗌      |  |
| 14. Were all holding                            | times able to be met?<br>tomer for authorization.) |   | Yes 🗹   | No 🗆      | Checked by: 7~8/29/23                                  |
| Special Handlin                                 | ng (if applicable)                                 |   |   |           |  |
| 15. Was client notil                            | fied of all discrepancies with t                   | his order?  | Yes   | No 🗌      | NA 🗹   |
| Person N  | lotified:  | Date:   | e sue qualita de la provisión de la composición de la composición de la composición de la composición de la com |           |  |
| By Whom   | n:   | Via:  | eMail Phon  | ie [] Fax | In Person  |
| Regarding                                       | g:   |   |   |           |  |
| Client Ins                                      | tructions: Mailing address.p                       | hone number and Email/  | Fax are missingon   | COCTM     | IC 8/29/23   |
| 16. Additional rem                              | arks:  |   |   |           |  |
| 17. <u>Cooler Inform</u><br>Cooler No<br>1      | · · · · · · · · · · · · · · · · · · ·              |   | Seal Date Sig   | ned By    |  |
|   |  |   |   |           |  |

Received by OCD: 1/8/2025 1:37:44 PM

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Received by OCD: 1/8/2025 1:37:44 PM

| Chain-of-Custody Record   | Turn-Around Time:  | HALL ENVIRONMENTAL   |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| Client: Devon/Vertex  | □ Standard <b>Rush</b> <u>48</u> <del>/</del><br>Project Name: |  |  |  |  |  |  |
| Mailing Address: On file  | Laguna Salado 22 Fed 4 Pasture<br>Project #:                   | 4901 Hawkins NE - Albuquerque, NM 87109  |  |  |  |  |  |
|   | Project #:   | Tel. 505-345-3975 Fax 505-345-4107   |  |  |  |  |  |
| Phone #:  | 23E-01414  | Analysis Request   |  |  |  |  |  |
| email or Fax#:  | Project Manager:   | 804 SO4 SO4  |  |  |  |  |  |
| QA/QC Package:           Standard         Level 4 (Full Validation) | Kent Stallings   | TMB's (8021)<br>/ DRO / MRO<br>8082 PCB's<br>8270SIMS<br>8270SIMS<br>***********************************   |  |  |  |  |  |
| Accreditation:   Az Compliance                                      | Sampler: SM  | TMB<br>0 / DR<br>8082<br>8082<br>4.1)  |  |  |  |  |  |
| □ NELAC □ Other<br>□ EDD (Type)                                     | On Ice: QYes □ No Qdq<br># of Coolers: I                       | E / 33, 1 50/ 0 or 1 50/ 0 or 1 50/ 0 or 1 50/ 0 or 1 50/ 0 0 or 1 50/ |  |  |  |  |  |
|   | Cooler Temp(including CF): $0.1 = 0.1 = 0$ (°C)                | MTBE /<br>5D(GRC<br>sticides/<br>ethod 50<br>Metals<br>r, NO <sub>3</sub> ,<br>OA)<br>emi-VO/<br>emi-VO/   |  |  |  |  |  |
| Date Time Matrix Sample Name  | Container Preservative HEAL No.<br>Type and # Type 2308 F18    | EUEX / MTBE / TMB's (8021)         TPH:8015D(GRO / DRO / MRO)         8081 Pesticides/8082 PCB's         8081 Pesticides/8082 PCB's         EDB (Method 504.1)         PAHs by 8310 or 8270SIMS         RCRA 8 Metals         CF, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA)         8270 (Semi-VOA)         Total Coliform (Present/Absent)   |  |  |  |  |  |
| 8/25/2310:05 Soil BG23-01 0'  | 4 ozjar Ice 001  |  |  |  |  |  |  |
| 1 10:10 BG23-01 2-  | 002  |  |  |  |  |  |  |
| 10:15 BG 23-02 0'   | 003  |  |  |  |  |  |  |
| 10:30 BG 23-02 2-   | 004  |  |  |  |  |  |  |
| 10:45 BH23-01 0'  | 005  |  |  |  |  |  |  |
| 10:50 BH 23-01 2-   | 006  |  |  |  |  |  |  |
| 12:30 BH23-02 0-  | FOO  |  |  |  |  |  |  |
| 12:45 BH23-02 2-  | 008  |  |  |  |  |  |  |
| 12:40 BH23-03-0'  | 069  |  |  |  |  |  |  |
| 12:45 BH23-03 2-  | 010  |  |  |  |  |  |  |
| 13:45 BH23-04 0'  | 011  |  |  |  |  |  |  |
| V 13:50 V BH23-042-   | V V OIZ  |  |  |  |  |  |  |
| Date: Time: Relinquished by:  | adurino Bleeks ets   | Remarks: Direct bill to Dewon<br>WILT: 21134488  |  |  |  |  |  |
| Date: Time: Refinquished by:  | Received by: Via: County Date Time<br>7:57<br>B/29/23          | KStallings. @ vertex. Co<br>C.C. SMccarty @ vertex. Co Pg 10f1   |  |  |  |  |  |

Released to Imaging: 4/1//2025 1:37:41 PM



September 12, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX:

RE: Laguna Salado 22 Fed 4 Pasture

OrderNo.: 2309072

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/2/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**CLIENT:** Devon Energy

Project:

**Analytical Report** Lab Order 2309072

Date Reported: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Fed 4 Pasture

Client Sample ID: BG23-03 0' Collection Date: 8/25/2023 10:35:00 AM Received Date: 9/2/2023 7:45:00 AM

| Lab ID: 2309072-001             | Matrix: SOIL | Received Date: 9/2/2023 7:45:00 AM |          |     |                      |  |
|---------------------------------|--------------|------------------------------------|----------|-----|----------------------|--|
| Analyses                        | Result       | RL Qu                              | al Units | DF  | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |                                    |          |     | Analyst: <b>PRD</b>  |  |
| Diesel Range Organics (DRO)     | ND           | 9.1                                | mg/Kg    | 1   | 9/6/2023 4:28:14 PM  |  |
| Motor Oil Range Organics (MRO)  | ND           | 46                                 | mg/Kg    | 1   | 9/6/2023 4:28:14 PM  |  |
| Surr: DNOP                      | 96.6         | 69-147                             | %Rec     | 1   | 9/6/2023 4:28:14 PM  |  |
| EPA METHOD 8015D: GASOLINE RAN  | GE           |                                    |          |     | Analyst: KMN         |  |
| Gasoline Range Organics (GRO)   | ND           | 4.8                                | mg/Kg    | 1   | 9/6/2023 11:52:00 PM |  |
| Surr: BFB                       | 99.4         | 15-244                             | %Rec     | 1   | 9/6/2023 11:52:00 PM |  |
| EPA METHOD 8021B: VOLATILES     |              |                                    |          |     | Analyst: KMN         |  |
| Benzene                         | ND           | 0.024                              | mg/Kg    | 1   | 9/6/2023 11:52:00 PM |  |
| Toluene                         | ND           | 0.048                              | mg/Kg    | 1   | 9/6/2023 11:52:00 PM |  |
| Ethylbenzene                    | ND           | 0.048                              | mg/Kg    | 1   | 9/6/2023 11:52:00 PM |  |
| Xylenes, Total                  | ND           | 0.096                              | mg/Kg    | 1   | 9/6/2023 11:52:00 PM |  |
| Surr: 4-Bromofluorobenzene      | 89.4         | 39.1-146                           | %Rec     | 1   | 9/6/2023 11:52:00 PM |  |
| EPA METHOD 300.0: ANIONS        |              |                                    |          |     | Analyst: SNS         |  |
| Chloride                        | 17000        | 1500                               | mg/Kg    | 500 | 9/7/2023 10:03:19 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 10

\*

**CLIENT:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Analytical Report Lab Order 2309072

Date Reported: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG23-03 2' Collection Date: 8/25/2023 10:40:00 AM Received Date: 9/2/2023 7:45:00 AM

| Lab ID: 2309072-002             | Matrix: SOIL | Received Date: 9/2/2023 7:45:00 AM |          |     |                      |  |
|---------------------------------|--------------|------------------------------------|----------|-----|----------------------|--|
| Analyses                        | Result       | RL Qu                              | al Units | DF  | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |                                    |          |     | Analyst: PRD         |  |
| Diesel Range Organics (DRO)     | ND           | 9.7                                | mg/Kg    | 1   | 9/6/2023 4:51:58 PM  |  |
| Motor Oil Range Organics (MRO)  | ND           | 48                                 | mg/Kg    | 1   | 9/6/2023 4:51:58 PM  |  |
| Surr: DNOP                      | 91.9         | 69-147                             | %Rec     | 1   | 9/6/2023 4:51:58 PM  |  |
| EPA METHOD 8015D: GASOLINE RANG | GE           |                                    |          |     | Analyst: KMN         |  |
| Gasoline Range Organics (GRO)   | ND           | 5.0                                | mg/Kg    | 1   | 9/7/2023 12:57:00 AM |  |
| Surr: BFB                       | 98.1         | 15-244                             | %Rec     | 1   | 9/7/2023 12:57:00 AM |  |
| EPA METHOD 8021B: VOLATILES     |              |                                    |          |     | Analyst: KMN         |  |
| Benzene                         | ND           | 0.025                              | mg/Kg    | 1   | 9/7/2023 12:57:00 AM |  |
| Toluene                         | ND           | 0.050                              | mg/Kg    | 1   | 9/7/2023 12:57:00 AM |  |
| Ethylbenzene                    | ND           | 0.050                              | mg/Kg    | 1   | 9/7/2023 12:57:00 AM |  |
| Xylenes, Total                  | ND           | 0.099                              | mg/Kg    | 1   | 9/7/2023 12:57:00 AM |  |
| Surr: 4-Bromofluorobenzene      | 89.0         | 39.1-146                           | %Rec     | 1   | 9/7/2023 12:57:00 AM |  |
| EPA METHOD 300.0: ANIONS        |              |                                    |          |     | Analyst: SNS         |  |
| Chloride                        | 4900         | 300                                | mg/Kg    | 100 | 9/7/2023 10:15:40 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 10

**Analytical Report** Lab Order 2309072

Date Reported: 9/12/2023

9/7/2023 2:02:00 AM

9/7/2023 10:28:01 AM

Analyst: SNS

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-05 0 **Project:** Laguna Salado 22 Fed 4 Pasture Collection Date: 8/31/2023 9:10:00 AM Lab ID: 2309072-003 Matrix: SOIL Received Date: 9/2/2023 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 9/6/2023 5:15:49 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 9/6/2023 5:15:49 PM Surr: DNOP 91.6 69-147 %Rec 1 9/6/2023 5:15:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/7/2023 2:02:00 AM 4.8 mg/Kg 1 Surr: BFB 96.8 15-244 %Rec 1 9/7/2023 2:02:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/7/2023 2:02:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/7/2023 2:02:00 AM Ethylbenzene ND 0.048 mg/Kg 1 9/7/2023 2:02:00 AM Xylenes, Total ND 0.095 mg/Kg 1 9/7/2023 2:02:00 AM

89.6

9400

39.1-146

600

%Rec

mg/Kg

1

200

**EPA METHOD 300.0: ANIONS** 

Surr: 4-Bromofluorobenzene

Chloride

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 3 of 10

Analytical Report Lab Order 2309072

Date Reported: 9/12/2023

9/7/2023 10:40:23 AM

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-05 2' **Project:** Laguna Salado 22 Fed 4 Pasture Collection Date: 8/31/2023 9:15:00 AM Lab ID: 2309072-004 Matrix: SOIL Received Date: 9/2/2023 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 9/6/2023 5:39:41 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 9/6/2023 5:39:41 PM Surr: DNOP 95.5 69-147 %Rec 1 9/6/2023 5:39:41 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/7/2023 2:24:00 AM 4.7 mg/Kg 1 Surr: BFB 104 15-244 %Rec 1 9/7/2023 2:24:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/7/2023 2:24:00 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 9/7/2023 2:24:00 AM Ethylbenzene ND 0.047 mg/Kg 1 9/7/2023 2:24:00 AM Xylenes, Total ND 0.094 mg/Kg 1 9/7/2023 2:24:00 AM Surr: 4-Bromofluorobenzene 90.1 39.1-146 %Rec 1 9/7/2023 2:24:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS

9800

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Chloride

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

mg/Kg

100

300

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 10

Released to Imaging: 4/17/2025 1:37:41 PM

-

**CLIENT:** Devon Energy

Project:

Analytical Report Lab Order 2309072

### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Fed 4 Pasture

Date Reported: 9/12/2023 Client Sample ID: BH23-06 0' Collection Date: 8/31/2023 9:20:00 AM Received Date: 9/2/2023 7:45:00 AM

| Lab ID: 2309072-005            | Matrix: SOIL | Reco     | eived Date: | 9/2/202 | 23 7:45:00 AM        |
|--------------------------------|--------------|----------|-------------|---------|----------------------|
| Analyses                       | Result       | RL Qu    | al Units    | DF      | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RA  | NGE ORGANICS |          |             |         | Analyst: PRD         |
| Diesel Range Organics (DRO)    | ND           | 9.9      | mg/Kg       | 1       | 9/6/2023 6:03:48 PM  |
| Motor Oil Range Organics (MRO) | ND           | 50       | mg/Kg       | 1       | 9/6/2023 6:03:48 PM  |
| Surr: DNOP                     | 90.9         | 69-147   | %Rec        | 1       | 9/6/2023 6:03:48 PM  |
| EPA METHOD 8015D: GASOLINE RA  | ANGE         |          |             |         | Analyst: KMN         |
| Gasoline Range Organics (GRO)  | ND           | 4.8      | mg/Kg       | 1       | 9/7/2023 2:46:00 AM  |
| Surr: BFB                      | 101          | 15-244   | %Rec        | 1       | 9/7/2023 2:46:00 AM  |
| EPA METHOD 8021B: VOLATILES    |              |          |             |         | Analyst: <b>KMN</b>  |
| Benzene                        | ND           | 0.024    | mg/Kg       | 1       | 9/7/2023 2:46:00 AM  |
| Toluene                        | ND           | 0.048    | mg/Kg       | 1       | 9/7/2023 2:46:00 AM  |
| Ethylbenzene                   | ND           | 0.048    | mg/Kg       | 1       | 9/7/2023 2:46:00 AM  |
| Xylenes, Total                 | ND           | 0.096    | mg/Kg       | 1       | 9/7/2023 2:46:00 AM  |
| Surr: 4-Bromofluorobenzene     | 91.6         | 39.1-146 | %Rec        | 1       | 9/7/2023 2:46:00 AM  |
| EPA METHOD 300.0: ANIONS       |              |          |             |         | Analyst: SNS         |
| Chloride                       | 8100         | 600      | mg/Kg       | 200     | 9/7/2023 10:52:44 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D Sample Diluted Due to Matrix
   H Holding times for preparation or analysis exceed
- H Holding times for preparation or analysis exceeded
- NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**CLIENT:** Devon Energy

Project:

**Analytical Report** Lab Order 2309072

Date Reported: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Fed 4 Pasture

Client Sample ID: BH23-06 2' Collection Date: 8/31/2023 9:25:00 AM Received Date: 9/2/2023 7:45:00 AM

| Lab ID: 2309072-006             | Matrix: SOIL | Received Date: 9/2/2023 7:45:00 AM |          |     |                      |  |
|---------------------------------|--------------|------------------------------------|----------|-----|----------------------|--|
| Analyses                        | Result       | RL Qu                              | al Units | DF  | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |                                    |          |     | Analyst: PRD         |  |
| Diesel Range Organics (DRO)     | ND           | 9.2                                | mg/Kg    | 1   | 9/6/2023 6:27:56 PM  |  |
| Motor Oil Range Organics (MRO)  | ND           | 46                                 | mg/Kg    | 1   | 9/6/2023 6:27:56 PM  |  |
| Surr: DNOP                      | 84.5         | 69-147                             | %Rec     | 1   | 9/6/2023 6:27:56 PM  |  |
| EPA METHOD 8015D: GASOLINE RANG | GE           |                                    |          |     | Analyst: KMN         |  |
| Gasoline Range Organics (GRO)   | ND           | 4.7                                | mg/Kg    | 1   | 9/7/2023 3:08:00 AM  |  |
| Surr: BFB                       | 99.8         | 15-244                             | %Rec     | 1   | 9/7/2023 3:08:00 AM  |  |
| EPA METHOD 8021B: VOLATILES     |              |                                    |          |     | Analyst: KMN         |  |
| Benzene                         | ND           | 0.023                              | mg/Kg    | 1   | 9/7/2023 3:08:00 AM  |  |
| Toluene                         | ND           | 0.047                              | mg/Kg    | 1   | 9/7/2023 3:08:00 AM  |  |
| Ethylbenzene                    | ND           | 0.047                              | mg/Kg    | 1   | 9/7/2023 3:08:00 AM  |  |
| Xylenes, Total                  | ND           | 0.093                              | mg/Kg    | 1   | 9/7/2023 3:08:00 AM  |  |
| Surr: 4-Bromofluorobenzene      | 92.6         | 39.1-146                           | %Rec     | 1   | 9/7/2023 3:08:00 AM  |  |
| EPA METHOD 300.0: ANIONS        |              |                                    |          |     | Analyst: SNS         |  |
| Chloride                        | 4600         | 300                                | mg/Kg    | 100 | 9/7/2023 11:05:05 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 6 of 10

\*

Client: Project:

Sample ID: Client ID: Prep Date: Analyte Chloride

| nvi         | vironmental Analysis Laboratory, Inc. |                            |                 |           |              |           |           |               |      |          |      |  |
|-------------|---------------------------------------|----------------------------|-----------------|-----------|--------------|-----------|-----------|---------------|------|----------|------|--|
|             |                                       | n Energy<br>na Salado 22 F | Fed 4 Pa        | asture    |              |           |           |               |      |          |      |  |
| ): <b>M</b> | B-77340                               | SampT                      | уре: МЕ         | BLK       | Tes          | tCode: EF | PA Method | 300.0: Anions | 6    |          |      |  |
| PE          | BS                                    | Batch                      | n ID: 773       | 340       | RunNo: 99513 |           |           |               |      |          |      |  |
| : 9         | /6/2023                               | Analysis D                 | )ate: <b>9/</b> | 6/2023    | S            | SeqNo: 36 | 633388    | Units: mg/K   | g    |          |      |  |
|             |                                       | Result                     | PQL             | SPK value | SPK Ref Val  | %REC      | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |  |
|             |                                       | ND                         | 1.5             |           |              |           |           |               |      |          |      |  |

| Sample ID: LCS-77340 SampType: LCS |            |         | Tes       | TestCode: EPA Method 300.0: Anions |                   |          |             |      |          |      |
|------------------------------------|------------|---------|-----------|------------------------------------|-------------------|----------|-------------|------|----------|------|
| Client ID: LCSS                    | Batch      | ID: 773 | 340       | F                                  | RunNo: <b>9</b> 9 | 9513     |             |      |          |      |
| Prep Date: 9/6/2023                | Analysis D | ate: 9/ | 6/2023    | 5                                  | SeqNo: 30         | 633389   | Units: mg/K | g    |          |      |
| Analyte                            | Result     | PQL     | SPK value | SPK Ref Val                        | %REC              | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Chloride                           | 15         | 1.5     | 15.00     | 0                                  | 97.7              | 90       | 110         |      |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2309072

|   | von Energy<br>guna Salado 22 | Fed 4 Pa        | asture    |   |                   |           |              |           |          |      |  |
|---|------------------------------|-----------------|-----------|---|-------------------|-----------|--------------|-----------|----------|------|--|
| Sample ID: MB-77317                         | Samp                         | туре: <b>ме</b> | BLK       | TestCode: EPA Method 8015M/D: Diesel Range Organics |                   |           |              |           |          |      |  |
| Client ID: PBS Batch ID: 77317              |                              |                 | F         | RunNo: 99483  |                   |           |              |           |          |      |  |
| Prep Date: 9/6/2023 Analysis Date: 9/6/2023 |                              |                 |           | S   | SeqNo: 36         | 632800    | Units: mg/K  | g         |          |      |  |
| Analyte                                     | Result                       | PQL             | SPK value | SPK Ref Val   | %REC              | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual |  |
| Diesel Range Organics (DRO)                 | ND                           | 10              |           |   |                   |           |              |           |          |      |  |
| Motor Oil Range Organics (MF                | RO) ND                       | 50              |           |   |                   |           |              |           |          |      |  |
| Surr: DNOP                                  | 9.1                          |                 | 10.00     |   | 90.7              | 69        | 147          |           |          |      |  |
| Sample ID: LCS-77317                        | Samp                         | Type: LC        | S         | Tes   | tCode: EF         | PA Method | 8015M/D: Die | sel Range | Organics |      |  |
| Client ID: LCSS                             | Bate                         | ch ID: 77       | 317       | F   | RunNo: <b>9</b> 9 | 9483      |              |           |          |      |  |
| Prep Date: 9/6/2023                         | Analysis                     | Date: 9/        | 6/2023    | S   | SeqNo: 36         | 632801    | Units: mg/K  | g         |          |      |  |
| Analyte                                     | Result                       | PQL             | SPK value | SPK Ref Val   | %REC              | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual |  |
| Diesel Range Organics (DRO)                 | 54                           | 10              | 50.00     | 0   | 108               | 61.9      | 130          |           |          |      |  |
| Surr: DNOP                                  | 4.3                          |                 | 5.000     |   | 85.5              | 69        | 147          |           |          |      |  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2309072

12-Sep-23

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| Client:<br>Project: | Devon En<br>Laguna S | 0.         | Fed 4 Pa        | sture     |  |                   |           |              |           |          |      |  |
|---------------------|----------------------|------------|-----------------|-----------|--|-------------------|-----------|--------------|-----------|----------|------|--|
| Sample ID:          | mb-77310             | SampT      | уре: МЕ         | BLK       | TestCode: EPA Method 8015D: Gasoline Range |                   |           |              |           |          |      |  |
| Client ID:          | PBS                  | Batch      | n ID: 773       | 310       | F  | RunNo: <b>9</b> 9 | 9469      |              |           |          |      |  |
| Prep Date:          | 9/5/2023             | Analysis E | Date: <b>9/</b> | 6/2023    | S  | SeqNo: 36         | 632342    | Units: mg/K  | g         |          |      |  |
| Analyte             |                      | Result     | PQL             | SPK value | SPK Ref Val                                | %REC              | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual |  |
| Gasoline Rang       | e Organics (GRO)     | ND         | 5.0             |           |  |                   |           |              |           |          |      |  |
| Surr: BFB           |                      | 1100       |                 | 1000      |  | 107               | 15        | 244          |           |          |      |  |
| Sample ID:          | 2309072-001ams       | SampT      | уре: <b>МS</b>  | ;         | Tes  | tCode: EF         | PA Method | 8015D: Gasol | ine Range | •        |      |  |
| Client ID:          | BG23-03 0'           | Batch      | n ID: 773       | 310       | F  | RunNo: <b>9</b> 9 | 9469      |              |           |          |      |  |
| Prep Date:          | 9/5/2023             | Analysis D | Date: 9/        | 7/2023    | S  | SeqNo: 36         | 632344    | Units: mg/K  | g         |          |      |  |
| Analyte             |                      | Result     | PQL             | SPK value | SPK Ref Val                                | %REC              | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual |  |
| Gasoline Rang       | e Organics (GRO)     | 25         | 4.8             | 24.18     | 0  | 104               | 70        | 130          |           |          |      |  |
| Surr: BFB           |                      | 2300       |                 | 967.1     |  | 234               | 15        | 244          |           |          |      |  |
| Sample ID:          | 2309072-001amsd      | SampT      | уре: <b>МS</b>  | D         | Tes  | tCode: EF         | PA Method | 8015D: Gasol | ine Range |          |      |  |
| Client ID:          | BG23-03 0'           | Batch      | n ID: 773       | 310       | F  | RunNo: <b>9</b> 9 | 9469      |              |           |          |      |  |
| Prep Date:          | 9/5/2023             | Analysis E | Date: 9/        | 7/2023    | S  | SeqNo: 36         | 632345    | Units: mg/K  | g         |          |      |  |
| Analyte             |                      | Result     | PQL             | SPK value | SPK Ref Val                                | %REC              | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual |  |
| Gasoline Rang       | e Organics (GRO)     | 23         | 4.8             | 24.15     | 0  | 95.5              | 70        | 130          | 8.90      | 20       |      |  |
| Surr: BFB           |                      | 2100       |                 | 966.2     |  | 221               | 15        | 244          | 0         | 0        |      |  |
| Sample ID:          | LCS-77310            | SampT      | ype: LC         | s         | Tes  | tCode: EF         | PA Method | 8015D: Gasol | ine Range |          |      |  |
| Client ID:          | LCSS                 | Batch      | n ID: 773       | 310       | F  | RunNo: <b>9</b> 9 | 9469      |              |           |          |      |  |
| Prep Date:          | 9/5/2023             | Analysis E | Date: <b>9/</b> | 6/2023    | S  | SeqNo: 36         | 632755    | Units: mg/K  | g         |          |      |  |
| Analyte             |                      | Result     | PQL             | SPK value | SPK Ref Val                                | %REC              | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual |  |

0

92.0

213

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Gasoline Range Organics (GRO)

Surr: BFB

% Recovery outside of standard limits. If undiluted results may be estimated. S

23

2100

5.0

25.00

1000

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2309072

12-Sep-23

WO#:

70

15

130

244

Devon Energy

**Client:** 

**Project:** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Laguna Salado 22 Fed 4 Pasture

| Sample ID: Ics-77310   | Samp  | Type: LC   | s  | Tes  | tCode: <b>F</b>  |  | 8021B: Volat   | ilos                                 |                      |      |
|--|---|--|--|--|--|--|--|--------------------------------------|----------------------|------|
| Client ID: LCSS  | •   | h ID: 773  |  |  | RunNo: 99  |  | 00210. 00101   | 1105                                 |                      |      |
| Prep Date: 9/5/2023  | Analysis I  |  |  |  | SeqNo: 30  |  | Unite: ma/k  | (a                                   |                      |      |
| FTep Date. 9/3/2023  | Analysis  |  |  |  | •  | 52741  | Units: mg/k  | •                                    |                      |      |
| Analyte  | Result  | PQL  | SPK value  | SPK Ref Val  | %REC   | LowLimit   | HighLimit  | %RPD                                 | RPDLimit             | Qual |
| Benzene  | 0.89  | 0.025  | 1.000  | 0  | 88.5   | 70   | 130  |                                      |                      |      |
| Toluene  | 0.89  | 0.050  | 1.000  | 0  | 89.4   | 70   | 130  |                                      |                      |      |
| Ethylbenzene   | 0.91  | 0.050  | 1.000  | 0  | 90.7   | 70   | 130  |                                      |                      |      |
| Xylenes, Total   | 2.7   | 0.10   | 3.000  | 0  | 90.6   | 70   | 130  |                                      |                      |      |
| Surr: 4-Bromofluorobenzene   | 0.92  |  | 1.000  |  | 92.4   | 39.1   | 146  |                                      |                      |      |
| Sample ID: mb-77310  | Samp  | Туре: <b>МВ</b>  | LK   | Tes  | tCode: EF  | PA Method  | 8021B: Volat   | iles                                 |                      |      |
| Client ID: PBS   | Batc  | h ID: 773  | 10   | F  | RunNo: <b>9</b> 9  | 9469   |  |                                      |                      |      |
| Prep Date: 9/5/2023  | Analysis I  | Date: 9/6  | 6/2023   | S  | SeqNo: 36  | 632742   | Units: <b>mg/k</b>   | ٢g                                   |                      |      |
| Analyte  | Result  | PQL  | SPK value  | SPK Ref Val  | %REC   | LowLimit   | HighLimit  | %RPD                                 | RPDLimit             | Qual |
| Benzene  | ND  | 0.025  |  |  |  |  |  |                                      |                      |      |
| Toluene  | ND  | 0.050  |  |  |  |  |  |                                      |                      |      |
| Ethylbenzene   | ND  | 0.050  |  |  |  |  |  |                                      |                      |      |
| Xylenes, Total   | ND  | 0.10   |  |  |  |  |  |                                      |                      |      |
| Surr: 4-Bromofluorobenzene   | 0.89  |  | 1.000  |  | 89.0   | 39.1   | 146  |                                      |                      |      |
|  |   |  |  |  | 00.0   |  | -  |                                      |                      |      |
| Sample ID: 2309072-002ams  |   | Type: MS   |  | Tes  |  |  | 8021B: Volat   | iles                                 |                      |      |
|  | Samp  | Type: <b>MS</b><br>h ID: <b>773</b>  |  |  |  | PA Method  | 8021B: Volat   | iles                                 |                      |      |
| Sample ID: 2309072-002ams  | Samp  | h ID: 773  | 10   | F  | tCode: EF  | PA Method<br>9469  | 8021B: Volat   |                                      |                      |      |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'   | s Samp <sup>-</sup><br>Batc   | h ID: 773  | 10   | F  | tCode: EF  | PA Method<br>9469  |  |                                      | RPDLimit             | Qual |
| Sample ID:         2309072-002ams           Client ID:         BG23-03 2'           Prep Date:         9/5/2023  | Samp<br>Batc<br>Analysis I  | h ID: <b>773</b><br>Date: <b>9/7</b>   | 310<br>7/2023  | F  | atCode: EF<br>RunNo: 99<br>SeqNo: 36   | PA Method<br>9469<br>532745  | Units: mg/k  | (g                                   | RPDLimit             | Qual |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte   | s Samp<br>Batc<br>Analysis I<br>Result  | h ID: <b>773</b><br>Date: <b>9/7</b><br>PQL  | 10<br>7/2023<br>SPK value  | F<br>SPK Ref Val   | tCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC  | PA Method<br>9469<br>632745<br>LowLimit  | Units: <b>mg/K</b><br>HighLimit  | (g                                   | RPDLimit             | Qual |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene  | Samp<br>Batc<br>Analysis I<br>Result<br>0.91  | h ID: <b>773</b><br>Date: <b>9/7</b><br>PQL<br>0.025   | 110<br>7/2023<br>SPK value<br>0.9940   | F<br>SPK Ref Val<br>0  | tCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>91.7  | PA Method<br>9469<br>632745<br>LowLimit<br>70  | Units: <b>mg/k</b><br>HighLimit<br>130   | (g                                   | RPDLimit             | Qual |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene   | Samp<br>Batc<br>Analysis I<br>Result<br>0.91<br>0.92  | h ID: <b>773</b><br>Date: <b>9/7</b><br>PQL<br>0.025<br>0.050  | 7/2023<br>SPK value<br>0.9940<br>0.9940  | F<br>SPK Ref Val<br>0<br>0   | tCode: <b>EF</b><br>RunNo: <b>99</b><br>SeqNo: <b>36</b><br>%REC<br>91.7<br>92.7   | PA Method<br>9469<br>632745<br>LowLimit<br>70<br>70  | Units: <b>mg/k</b><br>HighLimit<br>130<br>130  | (g                                   | RPDLimit             | Qual |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene   | Samp<br>Batc<br>Analysis I<br>Result<br>0.91<br>0.92<br>0.94  | h ID: <b>773</b><br>Date: <b>9/7</b><br><u>PQL</u><br>0.025<br>0.050<br>0.050  | 7/2023<br>SPK value<br>0.9940<br>0.9940<br>0.9940  | F<br>SPK Ref Val<br>0<br>0<br>0                                      | tCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>91.7<br>92.7<br>94.6  | PA Method<br>9469<br>532745<br>LowLimit<br>70<br>70<br>70<br>70  | Units: <b>mg/k</b><br>HighLimit<br>130<br>130<br>130   | (g                                   | RPDLimit             | Qual |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total   | Samp<br>Batc<br>Analysis I<br>Result<br>0.91<br>0.92<br>0.94<br>2.8<br>0.94   | h ID: <b>773</b><br>Date: <b>9/7</b><br><u>PQL</u><br>0.025<br>0.050<br>0.050  | <b>510</b><br>7/2023<br>SPK value<br>0.9940<br>0.9940<br>2.982<br>0.9940   | F<br>SPK Ref Val<br>0<br>0<br>0<br>0                                 | tCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>91.7<br>92.7<br>94.6<br>94.5<br>95.0  | PA Method<br>9469<br>532745<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1  | Units: <b>mg/k</b><br>HighLimit<br>130<br>130<br>130<br>130  | <b>(g</b><br>%RPD                    | RPDLimit             | Qual |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene   | Analysis I<br>Analysis I<br>Result<br>0.91<br>0.92<br>0.94<br>2.8<br>0.94<br>d Samp                                   | h ID: 773<br>Date: 9/7<br>PQL<br>0.025<br>0.050<br>0.050<br>0.099  | spk value       0.9940       0.9940       0.9940       2.982       0.9940  | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes                     | tCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>91.7<br>92.7<br>94.6<br>94.5<br>95.0  | PA Method<br>9469<br>632745<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1<br>PA Method   | Units: <b>mg/k</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146   | <b>(g</b><br>%RPD                    | RPDLimit             | Qual |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2309072-002ams  | Analysis I<br>Analysis I<br>Result<br>0.91<br>0.92<br>0.94<br>2.8<br>0.94<br>d Samp                                   | h ID: <b>773</b><br>Date: <b>9/7</b><br>PQL<br>0.025<br>0.050<br>0.050<br>0.099<br>Type: <b>MS</b><br>h ID: <b>773</b>                     | SPK value         0.9940         0.9940         0.9940         2.982         0.9940  | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>F                     | tCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>91.7<br>92.7<br>94.6<br>94.5<br>95.0<br>tCode: EF   | PA Method<br>9469<br>532745<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>9469   | Units: <b>mg/k</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146   | (g<br>%RPD                           | RPDLimit             | Qual |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'   | Analysis I<br>Result<br>0.91<br>0.92<br>0.94<br>2.8<br>0.94<br>d Samp <sup>*</sup><br>Batc                            | h ID: <b>773</b><br>Date: <b>9/7</b><br>PQL<br>0.025<br>0.050<br>0.050<br>0.099<br>Type: <b>MS</b><br>h ID: <b>773</b>                     | SPK value         0.9940         0.9940         0.9940         2.982         0.9940  | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F                | ttCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>91.7<br>92.7<br>94.6<br>94.5<br>95.0<br>ttCode: EF<br>RunNo: 99                                      | PA Method<br>9469<br>532745<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>9469   | Units: mg/k<br>HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volat  | (g<br>%RPD                           | RPDLimit             | Qual |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte                       | Analysis I<br>Result<br>0.91<br>0.92<br>0.94<br>2.8<br>0.94<br>d Samp<br>Batc<br>Analysis I                           | h ID: 773<br>Date: 9/7<br>PQL<br>0.025<br>0.050<br>0.050<br>0.099<br>Type: MS<br>h ID: 773<br>Date: 9/7                                    | 210<br>7/2023<br>SPK value<br>0.9940<br>0.9940<br>2.982<br>0.9940<br>2.982<br>0.9940<br>D<br>210<br>7/2023   | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F                | tCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>91.7<br>92.7<br>94.6<br>94.5<br>95.0<br>tCode: EF<br>RunNo: 99<br>SeqNo: 36                           | PA Method<br>9469<br>532745<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>9469<br>532746                                     | Units: mg/k<br>HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volat<br>Units: mg/k   | (g<br>%RPD<br>iles                   |                      |      |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene            | Analysis I<br>Result<br>0.91<br>0.92<br>0.94<br>2.8<br>0.94<br>d Samp<br>Batc<br>Analysis I<br>Result                 | h ID: <b>773</b><br>Date: <b>9/7</b><br>PQL<br>0.025<br>0.050<br>0.050<br>0.099<br>Type: <b>MS</b><br>h ID: <b>773</b><br>Date: <b>9/7</b> | SPK value         0.9940         0.9940         2.982         0.9940         2.982         0.9940         SPK value  | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>F<br>SPK Ref Val      | tCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>91.7<br>92.7<br>94.6<br>94.5<br>95.0<br>ttCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC                  | PA Method<br>9469<br>532745<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>9469<br>532746<br>LowLimit                         | Units: <b>mg/k</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146<br><b>8021B: Volat</b><br>Units: <b>mg/k</b><br>HighLimit               | (g<br>%RPD<br>iles<br>(g<br>%RPD     | RPDLimit             |      |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023                                  | Analysis I<br>Result<br>0.91<br>0.92<br>0.94<br>2.8<br>0.94<br>d Samp<br>Batc<br>Analysis I<br>Result<br>0.88         | h ID: 773<br>Date: 9/7<br>PQL<br>0.025<br>0.050<br>0.050<br>0.099<br>Type: MS<br>h ID: 773<br>Date: 9/7<br>PQL<br>0.025                    | SPK value         0.9940         0.9940         0.9940         2.982         0.9940         D         10         7/2023         SPK value         0.9911   | F<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>Tes<br>F<br>SPK Ref Val<br>0 | ttCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>91.7<br>92.7<br>94.6<br>94.5<br>95.0<br>ttCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>89.0         | PA Method<br>9469<br>532745<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>9469<br>532746<br>LowLimit<br>70                   | Units: <b>mg/k</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146<br><b>8021B: Volat</b><br>Units: <b>mg/k</b><br>HighLimit<br>130        | (g<br>%RPD iles (g<br>%RPD 3.36      | RPDLimit<br>20       |      |
| Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2309072-002ams<br>Client ID: BG23-03 2'<br>Prep Date: 9/5/2023<br>Analyte<br>Benzene<br>Toluene | Analysis I<br>Result<br>0.91<br>0.92<br>0.94<br>2.8<br>0.94<br>d Samp<br>Batc<br>Analysis I<br>Result<br>0.88<br>0.90 | h ID: 773<br>Date: 9/7<br>PQL<br>0.025<br>0.050<br>0.050<br>0.099<br>Type: MS<br>h ID: 773<br>Date: 9/7<br>PQL<br>0.025<br>0.050           | SPK value         0.9940         0.9940         0.9940         2.982         0.9940         Jone         B         SPK value         0.9940         0.9940         0.9940         0.9940         0.9940         SPK value         0.9941         0.9911         0.9911 | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>SPK Ref Val<br>0<br>0 | ttCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>91.7<br>92.7<br>94.6<br>94.5<br>95.0<br>ttCode: EF<br>RunNo: 99<br>SeqNo: 36<br>%REC<br>89.0<br>90.5 | PA Method<br>9469<br>532745<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>9469<br>532746<br>LowLimit<br>70<br>70<br>70<br>70 | Units: <b>mg/k</b><br>HighLimit<br>130<br>130<br>130<br>130<br>146<br><b>8021B: Volat</b><br>Units: <b>mg/k</b><br>HighLimit<br>130<br>130 | (g<br>%RPD iles (g<br>%RPD 3.36 2.66 | RPDLimit<br>20<br>20 |      |

#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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WO#: 2309072 12-Sep-23

HALL ENVIRONMENTAL ANALYSIS LABORATORY Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

| Client Name:                     | Dever 5                             |                   | 10/L-/                                  | and an a bloom to |                 | 222          |          |              | D 11             |           |              |
|----------------------------------|-------------------------------------|-------------------|---|-------------------|-----------------|--------------|----------|--------------|------------------|-----------|--------------|
| Client Name:                     | Devon Energy                        | ý                 | work (                                  | Order Numbei      | 2309            | 572          |          |              | ReptNo           | ): 1      |              |
| Received By:                     | Tracy Casar                         | rubias            | 9/2/2023                                | 7:45:00 AM        |                 |              |          |              |                  |           |              |
| Completed By:                    | Tracy Casar                         |                   |   | 7:57:20 AM        |                 |              |          |              |                  |           |              |
|                                  |                                     | 8                 | 91212023                                | 7.57.20 AW        |                 |              | -        |              |                  |           |              |
| Reviewed By:                     | 7n9/5                               | 123               |   |                   |                 | -            |          |              |                  |           |              |
| Chain of Cus                     | stodv                               |                   |   |                   |                 |              |          |              |                  |           |              |
| 1. Is Chain of C                 |                                     | e?                |   |                   | Yes             |              | No       | $\checkmark$ | Not Present      |           |              |
| 2. How was the                   | sample deliver                      | ed?               |   |                   | <u>Couri</u>    | <u>er</u>    |          |              |                  |           |              |
| Log In                           |                                     |                   |   |                   |                 |              |          |              |                  |           |              |
| 3. Was an atten                  | npt made to coo                     | of the samples?   |   |                   | Yes             |              | No       |              | NA 🗌             |           |              |
| 4. Were all sam                  | ples received at                    | t a temperature   | of >0°C to                              | o 6.0°C           | Yes             |              | No [     |              | NA 🗌             |           |              |
| 5. Sample(s) in                  | proper containe                     | er(s)?            |   |                   | Yes             |              | No       |              |                  |           |              |
| 6. Sufficient san                | nple volume for                     | indicated test(s) | 12                                      |                   | Yes             | ~            | No [     |              |                  |           |              |
| 7. Are samples                   |                                     |                   |   | 1?                | Yes             |              | No [     |              |                  |           |              |
| 8. Was preserva                  |                                     |                   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                   | Yes             |              | No 🖯     | ✓            | NA 🗌             |           |              |
| 9. Received at le                | east 1 vial with I                  | headspace <1/4    | " for AQ V                              | DA?               | Yes             |              | No [     |              | NA 🗹             |           |              |
| 10. Were any sa                  | mple containers                     | s received broke  | n?                                      |                   | Yes             |              | No       | $\checkmark$ | # of preserved   |           | /            |
|                                  |                                     |                   |   |                   |                 | _            | ſ        | _            | bottles checked  | /         |              |
| 11. Does paperw<br>(Note discrep | ork match bottle<br>ancies on chain |                   |   |                   | Yes             | $\checkmark$ | No       |              | for pH:<br>(<2 c | or >12 ur | nless noted) |
| 12. Are matrices                 |                                     |                   | Custody?                                |                   | Yes             | ✓            | No [     |              | Adjusted?        |           | ,            |
| 13. Is it clear what             |                                     |                   | ,                                       |                   | Yes             |              | No [     |              |                  |           |              |
| 14. Were all hold                | ing times able to                   | o be met?         |   |                   | Yes             | <b>~</b>     | No [     |              | Checked by:      | me        | 9/2/23       |
| (If no, notify c                 | customer for aut                    | horization.)      |   |                   |                 |              |          | 1            |                  |           |              |
| Special Hand                     | ling (if appli                      | i <u>cable)</u>   |   |                   |                 |              | 1        |              |                  |           |              |
| 15. Was client n                 | otified of all disc                 | crepancies with   | this order?                             |                   | Yes             |              | No       |              | NA 🗹             |           |              |
| Persor                           | Notified:                           |                   |   | Date:             |                 |              |          |              |                  |           |              |
| By Wh                            | om:                                 |                   |   | Via:              | 🗌 eMa           | il 🗌 P       | hone 🗌   | Fax          | In Person        |           |              |
| Regard                           | ding:                               |                   |   |                   | Ce Louise Chief |              |          |              |                  |           |              |
| Client I                         | Instructions: M                     | lailing address.p | phone num                               | ber and Emai      | /Fax ar         | e missino    | a on COC | - TM         | C 9/2/23         |           |              |
| 16. Additional re                | emarks:                             |                   |   |                   |                 |              |          |              |                  |           |              |
| 17. <u>Cooler Info</u>           |                                     |                   |   |                   |                 |              |          |              |                  |           |              |
| Cooler No                        |                                     |                   | eal Intact                              |                   | Seal Da         | ite          | Signed B | By           |                  |           |              |
| 1                                | 0.6 0                               | Good Yes          | 5                                       | Yogi              |                 |              |          |              |                  |           |              |
|                                  |                                     |                   |   |                   |                 |              |          |              |                  |           |              |
|                                  |                                     |                   |   |                   |                 |              |          |              |                  |           |              |

Released to Imaging: 4/17/2025 1:37:41 PM

Received by OCD: 1/8/2025 1:37:44 PM

| Chain-of-Custody Record   | Turn-Around Time:  | HALL ENVIRONMENTAL   |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| Client: Dewn/Vertex   | □ Standard   | ANALYSIS LABORATOR   |  |  |  |  |  |
| Mailing Address: On File  | Project #:   | www.hallenvironmental.com<br>4901 Hawkins NE - Albuquerque, NM 87109   |  |  |  |  |  |
|   |  | Tel. 505-345-3975 Fax 505-345-4107   |  |  |  |  |  |
| Phone #:  | 235-01414  | Analysis Request   |  |  |  |  |  |
| email or Fax#:  | Project Manager:   | 21)<br>21)<br>8<br>8<br>8<br>8<br>4<br>8<br>0<br>4   |  |  |  |  |  |
| QA/QC Package:<br>□ Standard □ Level 4 (Full Validatio                    | n) Kentstallings   | s (80<br>D / M<br>PCB':<br>SIMS<br>PO4,  |  |  |  |  |  |
| Accreditation:   Accreditation:  Accreditation:                           | Sampler: SM  | TMB's<br>1 DRO<br>8082 P(<br>8082 P(<br>4.1)<br>()<br>()<br>()   |  |  |  |  |  |
| □ NELAC □ Other   | On Ice: A Yes I No yogi  | A A A A A A A A A A A A A A A A A A A  |  |  |  |  |  |
| □ EDD (Type)  | # of Coolers:  |  |  |  |  |  |  |
|   | Cooler Temp(Including CF): 0.6 - 0 = 0.6 (°C)  | (/ MTBE / 7<br>3015D(GRO / 9<br>Pesticides/8<br>(Method 504<br>(Method 504<br>(Method 504)<br>Br, NO <sub>3</sub> , N<br>Br, NO <sub>3</sub> , N<br>(VOA)<br>(VOA)<br>(Semi-VOA)<br>(Semi-VOA)   |  |  |  |  |  |
|   | Container Preservative HEAL No.  | &TEX / MTBE / TM         TPH:8015D(GRO / D)         8081 Pesticides/808;         8081 Pesticides/808;         B081 Pesticides/808;         EDB (Method 504.1)         PAHs by 8310 or 82;         PAHs by 8310 or 82;         RCRA 8 Metals         @)F, Br, NO <sub>3</sub> , NO <sub>2</sub> @)F, Br, NO <sub>3</sub> , NO <sub>2</sub> 8260 (VOA)         8270 (Semi-VOA)         Total Coliform (Prese   |  |  |  |  |  |
| Date Time Matrix Sample Name  | Type and # Type 2309072  | 8081 F<br>8081 F<br>8081 F<br>8081 F<br>8081 F<br>PAHS (<br>0) F,<br>8260 (<br>1 Total C   |  |  |  |  |  |
| 8/25/23 10:35 Soil B623-03 0'   | Yoziar Ice 001   |  |  |  |  |  |  |
| 8/25/2310-40 3623-03 2-   | 500  | and the second sec |  |  |  |  |  |
| 881/23 9:10 BH23-05 0'  | 003  |  |  |  |  |  |  |
| B31/23 9:15 BH23-05 2-  | 004  |  |  |  |  |  |  |
| BH23-060'   | 005  |  |  |  |  |  |  |
| 2B1/2 9:25 , BH 23-06 2'  |  |  |  |  |  |  |  |
| pp/g - V BH~ V &  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |
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|   |  |  |  |  |  |  |  |
|   | and a state of the second seco |  |  |  |  |  |  |
| Date: Time: Relinquished by:  | Received by: Via: Date Time  | Remarks: Direct bill to: Devon   |  |  |  |  |  |
| 1/1/23 930 Sten McCat   | apulling 9/1/23 930  | W/0 # . 21134488   |  |  |  |  |  |
| Date: Time: Peelingsished by:<br>9 Jan<br>10 Timeging: 4/19/2025/W3714WPM | Received by: Via: Caun- Date Time  | - W/0 # : 21134488<br>SMCCORD @ Vertex. Ca<br>C.C. KStallings@. Vertex Ca  |  |  |  |  |  |
|   | 9/2/22 7:45  |  |  |  |  |  |  |



July 31, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX:

RE: Laguna Salado Fed 4

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2307983

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 10 sample(s) on 7/21/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: Laguna Salado Fed 4

**Analytical Report** 

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307983 Date Reported: 7/31/2023

Client Sample ID: BG23-01 0.0' Collection Date: 7/19/2023 10:00:00 AM Deserved Date: 7/21/2022 7:50:00 AM

| Lab ID: 2307983-001            | Matrix: SOIL | Rece     | eived Date: | 7/21/2 | 023 7:50:00 AM        |
|--------------------------------|--------------|----------|-------------|--------|-----------------------|
| Analyses                       | Result       | RL Qu    | al Units    | DF     | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RAN | NGE ORGANICS |          |             |        | Analyst: PRD          |
| Diesel Range Organics (DRO)    | ND           | 9.6      | mg/Kg       | 1      | 7/23/2023 12:23:57 PM |
| Motor Oil Range Organics (MRO) | ND           | 48       | mg/Kg       | 1      | 7/23/2023 12:23:57 PM |
| Surr: DNOP                     | 105          | 69-147   | %Rec        | 1      | 7/23/2023 12:23:57 PM |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |          |             |        | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)  | ND           | 4.8      | mg/Kg       | 1      | 7/24/2023 9:38:52 PM  |
| Surr: BFB                      | 95.5         | 15-244   | %Rec        | 1      | 7/24/2023 9:38:52 PM  |
| EPA METHOD 8021B: VOLATILES    |              |          |             |        | Analyst: JJP          |
| Benzene                        | ND           | 0.024    | mg/Kg       | 1      | 7/24/2023 9:38:52 PM  |
| Toluene                        | ND           | 0.048    | mg/Kg       | 1      | 7/24/2023 9:38:52 PM  |
| Ethylbenzene                   | ND           | 0.048    | mg/Kg       | 1      | 7/24/2023 9:38:52 PM  |
| Xylenes, Total                 | ND           | 0.096    | mg/Kg       | 1      | 7/24/2023 9:38:52 PM  |
| Surr: 4-Bromofluorobenzene     | 119          | 39.1-146 | %Rec        | 1      | 7/24/2023 9:38:52 PM  |
| EPA METHOD 300.0: ANIONS       |              |          |             |        | Analyst: RBC          |
| Chloride                       | 2500         | 150      | mg/Kg       | 50     | 7/26/2023 9:53:56 AM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

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Laguna Salado Fed 4

2307983-002

Project:

Lab ID:

**Analytical Report** Lab Order 2307983

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/31/2023 Client Sample ID: BG23-01 2.0' Collection Date: 7/19/2023 10:10:00 AM

Received Date: 7/21/2023 7:50:00 AM

| Analyses                             | Result | RL Q     | Qual Units | DF  | Date Analyzed         |
|--------------------------------------|--------|----------|------------|-----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS |          |            |     | Analyst: PRD          |
| Diesel Range Organics (DRO)          | ND     | 9.6      | mg/Kg      | 1   | 7/23/2023 12:48:23 PM |
| Motor Oil Range Organics (MRO)       | ND     | 48       | mg/Kg      | 1   | 7/23/2023 12:48:23 PM |
| Surr: DNOP                           | 88.2   | 69-147   | %Rec       | 1   | 7/23/2023 12:48:23 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |     | Analyst: JJP          |
| Gasoline Range Organics (GRO)        | ND     | 5.0      | mg/Kg      | 1   | 7/24/2023 10:49:22 PM |
| Surr: BFB                            | 92.6   | 15-244   | %Rec       | 1   | 7/24/2023 10:49:22 PM |
| EPA METHOD 8021B: VOLATILES          |        |          |            |     | Analyst: JJP          |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1   | 7/24/2023 10:49:22 PM |
| Toluene                              | ND     | 0.050    | mg/Kg      | 1   | 7/24/2023 10:49:22 PM |
| Ethylbenzene                         | ND     | 0.050    | mg/Kg      | 1   | 7/24/2023 10:49:22 PM |
| Xylenes, Total                       | ND     | 0.10     | mg/Kg      | 1   | 7/24/2023 10:49:22 PM |
| Surr: 4-Bromofluorobenzene           | 116    | 39.1-146 | %Rec       | 1   | 7/24/2023 10:49:22 PM |
| EPA METHOD 300.0: ANIONS             |        |          |            |     | Analyst: RBC          |
| Chloride                             | 6100   | 300      | mg/Kg      | 100 | 7/26/2023 10:06:21 AM |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 2 of 14

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Project: Laguna Salado Fed 4

Analytical Report

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307983

Date Reported: 7/31/2023

| Client Sample ID: BG23-02 0.0'         |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| Collection Date: 7/19/2023 10:20:00 AM |  |  |  |  |  |  |  |
| Received Date: 7/21/2023 7:50:00 AM    |  |  |  |  |  |  |  |

| Lab ID: 2307983-003              | Matrix: SOIL | Reco     | eived Date: | 7/21/2 | 023 7:50:00 AM        |  |  |
|----------------------------------|--------------|----------|-------------|--------|-----------------------|--|--|
| Analyses                         | Result       | RL Qu    | al Units    | DF     | Date Analyzed         |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |             |        | Analyst: PRD          |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.4      | mg/Kg       | 1      | 7/23/2023 1:12:51 PM  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 47       | mg/Kg       | 1      | 7/23/2023 1:12:51 PM  |  |  |
| Surr: DNOP                       | 91.2         | 69-147   | %Rec        | 1      | 7/23/2023 1:12:51 PM  |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |             |        | Analyst: JJP          |  |  |
| Gasoline Range Organics (GRO)    | ND           | 5.0      | mg/Kg       | 1      | 7/24/2023 11:59:42 PM |  |  |
| Surr: BFB                        | 92.6         | 15-244   | %Rec        | 1      | 7/24/2023 11:59:42 PM |  |  |
| EPA METHOD 8021B: VOLATILES      |              |          |             |        | Analyst: JJP          |  |  |
| Benzene                          | ND           | 0.025    | mg/Kg       | 1      | 7/24/2023 11:59:42 PM |  |  |
| Toluene                          | ND           | 0.050    | mg/Kg       | 1      | 7/24/2023 11:59:42 PM |  |  |
| Ethylbenzene                     | ND           | 0.050    | mg/Kg       | 1      | 7/24/2023 11:59:42 PM |  |  |
| Xylenes, Total                   | ND           | 0.099    | mg/Kg       | 1      | 7/24/2023 11:59:42 PM |  |  |
| Surr: 4-Bromofluorobenzene       | 117          | 39.1-146 | %Rec        | 1      | 7/24/2023 11:59:42 PM |  |  |
| EPA METHOD 300.0: ANIONS         |              |          |             |        | Analyst: RBC          |  |  |
| Chloride                         | 34000        | 1500     | mg/Kg       | 500    | 7/26/2023 10:18:46 AM |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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**Analytical Report** Lab Order 2307983

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/31/2023 Client Sample ID: BG23-02 2.0'

| Project: | Laguna Salado Fed 4     |              | Collec   | ction Date: | 7/19/2         | 023 10:30:00 AM       |
|----------|-------------------------|--------------|----------|-------------|----------------|-----------------------|
| Lab ID:  | 2307983-004             | Matrix: SOIL | Rece     | vived Date: | 023 7:50:00 AM |                       |
| Analyses |                         | Result       | RL Qu    | al Units    | DF             | Date Analyzed         |
| EPA ME   | THOD 8015M/D: DIESEL RA | NGE ORGANICS |          |             |                | Analyst: PRD          |
| Diesel R | ange Organics (DRO)     | ND           | 9.8      | mg/Kg       | 1              | 7/23/2023 1:37:25 PM  |
| Motor O  | il Range Organics (MRO) | ND           | 49       | mg/Kg       | 1              | 7/23/2023 1:37:25 PM  |
| Surr:    | DNOP                    | 89.4         | 69-147   | %Rec        | 1              | 7/23/2023 1:37:25 PM  |
| EPA ME   | THOD 8015D: GASOLINE RA | ANGE         |          |             |                | Analyst: JJP          |
| Gasoline | Range Organics (GRO)    | ND           | 4.9      | mg/Kg       | 1              | 7/25/2023 12:23:08 AM |
| Surr:    | BFB                     | 94.8         | 15-244   | %Rec        | 1              | 7/25/2023 12:23:08 AM |
| EPA ME   | THOD 8021B: VOLATILES   |              |          |             |                | Analyst: JJP          |
| Benzene  | 9                       | ND           | 0.024    | mg/Kg       | 1              | 7/25/2023 12:23:08 AM |
| Toluene  |                         | ND           | 0.049    | mg/Kg       | 1              | 7/25/2023 12:23:08 AM |
| Ethylber | izene                   | ND           | 0.049    | mg/Kg       | 1              | 7/25/2023 12:23:08 AM |
| Xylenes, | Total                   | ND           | 0.097    | mg/Kg       | 1              | 7/25/2023 12:23:08 AM |
| Surr:    | 4-Bromofluorobenzene    | 120          | 39.1-146 | %Rec        | 1              | 7/25/2023 12:23:08 AM |
| EPA ME   | THOD 300.0: ANIONS      |              |          |             |                | Analyst: RBC          |
| Chloride |                         | 6000         | 300      | mg/Kg       | 100            | 7/26/2023 10:31:10 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

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Project: Laguna Salado Fed 4

Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Lab Order **2307983** Date Reported: **7/31/2023** 

Client Sample ID: BG23-03 0.0' Collection Date: 7/19/2023 10:40:00 AM Received Date: 7/21/2023 7:50:00 AM

| Lab ID: 2307983-005            | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/21/2023 7:50:00 AM |    |                       |  |  |  |
|--------------------------------|--------------|----------|--|----|-----------------------|--|--|--|
| Analyses                       | Result       | RL Qu    | al Units                                   | DF | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS  |          |  |    | Analyst: PRD          |  |  |  |
| Diesel Range Organics (DRO)    | ND           | 9.6      | mg/Kg                                      | 1  | 7/23/2023 2:01:58 PM  |  |  |  |
| Motor Oil Range Organics (MRO) | ND           | 48       | mg/Kg                                      | 1  | 7/23/2023 2:01:58 PM  |  |  |  |
| Surr: DNOP                     | 79.0         | 69-147   | %Rec                                       | 1  | 7/23/2023 2:01:58 PM  |  |  |  |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |          |  |    | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)  | ND           | 4.8      | mg/Kg                                      | 1  | 7/25/2023 12:46:30 AM |  |  |  |
| Surr: BFB                      | 93.6         | 15-244   | %Rec                                       | 1  | 7/25/2023 12:46:30 AM |  |  |  |
| EPA METHOD 8021B: VOLATILES    |              |          |  |    | Analyst: JJP          |  |  |  |
| Benzene                        | ND           | 0.024    | mg/Kg                                      | 1  | 7/25/2023 12:46:30 AM |  |  |  |
| Toluene                        | ND           | 0.048    | mg/Kg                                      | 1  | 7/25/2023 12:46:30 AM |  |  |  |
| Ethylbenzene                   | ND           | 0.048    | mg/Kg                                      | 1  | 7/25/2023 12:46:30 AM |  |  |  |
| Xylenes, Total                 | ND           | 0.096    | mg/Kg                                      | 1  | 7/25/2023 12:46:30 AM |  |  |  |
| Surr: 4-Bromofluorobenzene     | 118          | 39.1-146 | %Rec                                       | 1  | 7/25/2023 12:46:30 AM |  |  |  |
| EPA METHOD 300.0: ANIONS       |              |          |  |    | Analyst: RBC          |  |  |  |
| Chloride                       | 970          | 60       | mg/Kg                                      | 20 | 7/25/2023 9:07:50 PM  |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado Fed 4

Analytical Report

# Hall Environmental Analysis Laboratory, Inc.

Lab Order **2307983** Date Reported: **7/31/2023** 

Client Sample ID: BG23-03 2.0' Collection Date: 7/19/2023 10:50:00 AM Received Date: 7/21/2023 7:50:00 AM

| Lab ID: 2307983-006              | Matrix: SOIL | <b>Received Date:</b> 7/21/2023 7:50:00 AM |          |    |                      |  |  |
|----------------------------------|--------------|--|----------|----|----------------------|--|--|
| Analyses                         | Result       | RL Qu                                      | al Units | DF | Date Analyzed        |  |  |
| EPA METHOD 8015M/D: DIESEL RANGI | E ORGANICS   |  |          |    | Analyst: PRD         |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.4  | mg/Kg    | 1  | 7/23/2023 2:26:32 PM |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 47   | mg/Kg    | 1  | 7/23/2023 2:26:32 PM |  |  |
| Surr: DNOP                       | 80.9         | 69-147                                     | %Rec     | 1  | 7/23/2023 2:26:32 PM |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |  |          |    | Analyst: JJP         |  |  |
| Gasoline Range Organics (GRO)    | ND           | 5.0  | mg/Kg    | 1  | 7/25/2023 1:10:05 AM |  |  |
| Surr: BFB                        | 94.2         | 15-244                                     | %Rec     | 1  | 7/25/2023 1:10:05 AM |  |  |
| EPA METHOD 8021B: VOLATILES      |              |  |          |    | Analyst: JJP         |  |  |
| Benzene                          | ND           | 0.025                                      | mg/Kg    | 1  | 7/25/2023 1:10:05 AM |  |  |
| Toluene                          | ND           | 0.050                                      | mg/Kg    | 1  | 7/25/2023 1:10:05 AM |  |  |
| Ethylbenzene                     | ND           | 0.050                                      | mg/Kg    | 1  | 7/25/2023 1:10:05 AM |  |  |
| Xylenes, Total                   | ND           | 0.099                                      | mg/Kg    | 1  | 7/25/2023 1:10:05 AM |  |  |
| Surr: 4-Bromofluorobenzene       | 119          | 39.1-146                                   | %Rec     | 1  | 7/25/2023 1:10:05 AM |  |  |
| EPA METHOD 300.0: ANIONS         |              |  |          |    | Analyst: RBC         |  |  |
| Chloride                         | 620          | 61   | mg/Kg    | 20 | 7/25/2023 9:20:15 PM |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

RL Re

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Laguna Salado Fed 4

2307983-007

Project:

Lab ID:

**Analytical Report** Lab Order 2307983

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/31/2023

Client Sample ID: BH23-01 0.0' Collection Date: 7/19/2023 11:00:00 AM Received Date: 7/21/2023 7:50:00 AM

| <b>Eub ID:</b> 2507905 007      | Muuliki Sole | Rect     |          |     |                       |  |  |  |
|---------------------------------|--------------|----------|----------|-----|-----------------------|--|--|--|
| Analyses                        | Result       | RL Qu    | al Units | DF  | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS  |          |          |     | Analyst: PRD          |  |  |  |
| Diesel Range Organics (DRO)     | ND           | 9.7      | mg/Kg    | 1   | 7/23/2023 2:51:05 PM  |  |  |  |
| Motor Oil Range Organics (MRO)  | ND           | 48       | mg/Kg    | 1   | 7/23/2023 2:51:05 PM  |  |  |  |
| Surr: DNOP                      | 92.1         | 69-147   | %Rec     | 1   | 7/23/2023 2:51:05 PM  |  |  |  |
| EPA METHOD 8015D: GASOLINE RAN  | IGE          |          |          |     | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)   | ND           | 4.8      | mg/Kg    | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| Surr: BFB                       | 91.7         | 15-244   | %Rec     | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| EPA METHOD 8021B: VOLATILES     |              |          |          |     | Analyst: JJP          |  |  |  |
| Benzene                         | ND           | 0.024    | mg/Kg    | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| Toluene                         | ND           | 0.048    | mg/Kg    | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| Ethylbenzene                    | ND           | 0.048    | mg/Kg    | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| Xylenes, Total                  | ND           | 0.097    | mg/Kg    | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| Surr: 4-Bromofluorobenzene      | 116          | 39.1-146 | %Rec     | 1   | 7/25/2023 1:33:29 AM  |  |  |  |
| EPA METHOD 300.0: ANIONS        |              |          |          |     | Analyst: RBC          |  |  |  |
| Chloride                        | 35000        | 1500     | mg/Kg    | 500 | 7/26/2023 10:43:34 AM |  |  |  |
|                                 |              |          |          |     |                       |  |  |  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project: Laguna Salado Fed 4

Analytical Report

# Hall Environmental Analysis Laboratory, Inc.

Lab Order **2307983** Date Reported: **7/31/2023** 

Client Sample ID: BH23-01 2.0' Collection Date: 7/19/2023 11:10:00 AM Received Date: 7/21/2023 7:50:00 AM

| Lab ID: 2307983-008             | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/21/2023 7:50:00 AM |     |                       |  |  |  |  |
|---------------------------------|--------------|----------|--|-----|-----------------------|--|--|--|--|
| Analyses                        | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed         |  |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |  |     | Analyst: PRD          |  |  |  |  |
| Diesel Range Organics (DRO)     | ND           | 9.8      | mg/Kg                                      | 1   | 7/23/2023 3:15:40 PM  |  |  |  |  |
| Motor Oil Range Organics (MRO)  | ND           | 49       | mg/Kg                                      | 1   | 7/23/2023 3:15:40 PM  |  |  |  |  |
| Surr: DNOP                      | 92.4         | 69-147   | %Rec                                       | 1   | 7/23/2023 3:15:40 PM  |  |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG | θE           |          |  |     | Analyst: JJP          |  |  |  |  |
| Gasoline Range Organics (GRO)   | ND           | 4.7      | mg/Kg                                      | 1   | 7/25/2023 1:56:52 AM  |  |  |  |  |
| Surr: BFB                       | 95.5         | 15-244   | %Rec                                       | 1   | 7/25/2023 1:56:52 AM  |  |  |  |  |
| EPA METHOD 8021B: VOLATILES     |              |          |  |     | Analyst: JJP          |  |  |  |  |
| Benzene                         | ND           | 0.024    | mg/Kg                                      | 1   | 7/25/2023 1:56:52 AM  |  |  |  |  |
| Toluene                         | ND           | 0.047    | mg/Kg                                      | 1   | 7/25/2023 1:56:52 AM  |  |  |  |  |
| Ethylbenzene                    | ND           | 0.047    | mg/Kg                                      | 1   | 7/25/2023 1:56:52 AM  |  |  |  |  |
| Xylenes, Total                  | ND           | 0.095    | mg/Kg                                      | 1   | 7/25/2023 1:56:52 AM  |  |  |  |  |
| Surr: 4-Bromofluorobenzene      | 120          | 39.1-146 | %Rec                                       | 1   | 7/25/2023 1:56:52 AM  |  |  |  |  |
| EPA METHOD 300.0: ANIONS        |              |          |  |     | Analyst: RBC          |  |  |  |  |
| Chloride                        | 6500         | 300      | mg/Kg                                      | 100 | 7/26/2023 10:55:59 AM |  |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** Lab Order 2307983

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/31/2023 Client Sample ID: BH23-02 0.0' Collection Date: 7/19/2023 11:20:00 AM

| Project:   | Laguna Salado Fed 4    |              | Collec                              | ction Date: | 7/19/2 | 023 11:20:00 AM       |  |  |  |
|------------|------------------------|--------------|-------------------------------------|-------------|--------|-----------------------|--|--|--|
| Lab ID:    | 2307983-009            | Matrix: SOIL | Received Date: 7/21/2023 7:50:00 AM |             |        |                       |  |  |  |
| Analyses   |                        | Result       | RL Qu                               | al Units    | DF     | Date Analyzed         |  |  |  |
| EPA MET    | HOD 8015M/D: DIESEL RA | NGE ORGANICS |                                     |             |        | Analyst: PRD          |  |  |  |
| Diesel Ra  | nge Organics (DRO)     | ND           | 9.3                                 | mg/Kg       | 1      | 7/23/2023 4:04:54 PM  |  |  |  |
| Motor Oil  | Range Organics (MRO)   | ND           | 46                                  | mg/Kg       | 1      | 7/23/2023 4:04:54 PM  |  |  |  |
| Surr: D    | NOP                    | 96.6         | 69-147                              | %Rec        | 1      | 7/23/2023 4:04:54 PM  |  |  |  |
| EPA MET    | HOD 8015D: GASOLINE RA | ANGE         |                                     |             |        | Analyst: <b>JJP</b>   |  |  |  |
| Gasoline I | Range Organics (GRO)   | ND           | 4.9                                 | mg/Kg       | 1      | 7/25/2023 2:20:16 AM  |  |  |  |
| Surr: Bl   | FB                     | 92.9         | 15-244                              | %Rec        | 1      | 7/25/2023 2:20:16 AM  |  |  |  |
| EPA MET    | HOD 8021B: VOLATILES   |              |                                     |             |        | Analyst: <b>JJP</b>   |  |  |  |
| Benzene    |                        | ND           | 0.024                               | mg/Kg       | 1      | 7/25/2023 2:20:16 AM  |  |  |  |
| Toluene    |                        | ND           | 0.049                               | mg/Kg       | 1      | 7/25/2023 2:20:16 AM  |  |  |  |
| Ethylbenz  | ene                    | ND           | 0.049                               | mg/Kg       | 1      | 7/25/2023 2:20:16 AM  |  |  |  |
| Xylenes, T | otal                   | ND           | 0.097                               | mg/Kg       | 1      | 7/25/2023 2:20:16 AM  |  |  |  |
| Surr: 4-   | Bromofluorobenzene     | 118          | 39.1-146                            | %Rec        | 1      | 7/25/2023 2:20:16 AM  |  |  |  |
| EPA MET    | HOD 300.0: ANIONS      |              |                                     |             |        | Analyst: RBC          |  |  |  |
| Chloride   |                        | 19000        | 1200                                | mg/Kg       | 400    | 7/26/2023 11:08:23 AM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

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Project: Laguna Salado Fed 4

**Analytical Report** Lab Order 2307983

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/31/2023

Client Sample ID: BH23-02 2.0' Collection Date: 7/19/2023 11:30:00 AM · 15 to. 7/21/2022 7.50.00 AM

| Lab ID: 2307983-010             | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/21/2023 7:50:00 AM |     |                       |  |  |  |
|---------------------------------|--------------|----------|--|-----|-----------------------|--|--|--|
| Analyses                        | Result       | RL Qu    | al Units                                   | DF  | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |  |     | Analyst: PRD          |  |  |  |
| Diesel Range Organics (DRO)     | ND           | 9.3      | mg/Kg                                      | 1   | 7/23/2023 4:29:31 PM  |  |  |  |
| Motor Oil Range Organics (MRO)  | ND           | 47       | mg/Kg                                      | 1   | 7/23/2023 4:29:31 PM  |  |  |  |
| Surr: DNOP                      | 91.8         | 69-147   | %Rec                                       | 1   | 7/23/2023 4:29:31 PM  |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG | E            |          |  |     | Analyst: JJP          |  |  |  |
| Gasoline Range Organics (GRO)   | ND           | 4.8      | mg/Kg                                      | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| Surr: BFB                       | 93.6         | 15-244   | %Rec                                       | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| EPA METHOD 8021B: VOLATILES     |              |          |  |     | Analyst: JJP          |  |  |  |
| Benzene                         | ND           | 0.024    | mg/Kg                                      | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| Toluene                         | ND           | 0.048    | mg/Kg                                      | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| Ethylbenzene                    | ND           | 0.048    | mg/Kg                                      | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| Xylenes, Total                  | ND           | 0.095    | mg/Kg                                      | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| Surr: 4-Bromofluorobenzene      | 118          | 39.1-146 | %Rec                                       | 1   | 7/25/2023 2:43:41 AM  |  |  |  |
| EPA METHOD 300.0: ANIONS        |              |          |  |     | Analyst: RBC          |  |  |  |
| Chloride                        | 6600         | 300      | mg/Kg                                      | 100 | 7/26/2023 11:20:48 AM |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 4/17/2025 1:37:41 PM

|   | WO#: | 2307983   |
|---|------|-----------|
| Environmental Analysis Laboratory, Inc. |      | 31-Jul-23 |

| Client:    | Devon E   | nergy   |
|------------|-----------|---|
| Project:   | Laguna S  | Salado Fed 4  |
| Sample ID: | MB-76439  | SampType: MBLK TestCode: EPA Method 300.0: Anions                           |
| Client ID: | PBS       | Batch ID: 76439 RunNo: 98504  |
| Prep Date: | 7/25/2023 | Analysis Date: 7/25/2023 SeqNo: 3586441 Units: mg/Kg                        |
| Analyte    |           | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride   |           | ND 1.5  |
| Sample ID: | LCS-76439 | SampType: LCS TestCode: EPA Method 300.0: Anions                            |
| Client ID: | LCSS      | Batch ID: 76439 RunNo: 98504  |
| Prep Date: | 7/25/2023 | Analysis Date: 7/25/2023 SeqNo: 3586442 Units: mg/Kg                        |
| Analyte    |           | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride   |           | 14 1.5 15.00 0 92.8 90 110  |
| Sample ID: | MB-76448  | SampType: MBLK TestCode: EPA Method 300.0: Anions                           |
| Client ID: | PBS       | Batch ID: 76448 RunNo: 98504  |
| Prep Date: | 7/25/2023 | Analysis Date: 7/25/2023 SeqNo: 3586471 Units: mg/Kg                        |
| Analyte    |           | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride   |           | ND 1.5  |
| Sample ID: | LCS-76448 | SampType: LCS TestCode: EPA Method 300.0: Anions                            |
| Client ID: | LCSS      | Batch ID: 76448 RunNo: 98504  |
| Prep Date: | 7/25/2023 | Analysis Date: 7/25/2023 SeqNo: 3586472 Units: mg/Kg                        |
| Analyte    |           | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride   |           | 14 1.5 15.00 0 93.2 90 110  |

Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 4/17/2025 1:37:41 PM

| Client:  | Devon Energy     |                              |           |             |                 |           |                    |           |          |      |
|--|------------------|------------------------------|-----------|-------------|-----------------|-----------|--------------------|-----------|----------|------|
| Project:   | Laguna Salado Fe | d 4                          |           |             |                 |           |                    |           |          |      |
| Sample ID: LCS-763                                   | <b>887</b> Samp  | Type: LC                     | S         | Tes         | tCode: E        | PA Method | 8015M/D: Die       | sel Range | Organics |      |
| Client ID: LCSS                                      | Bat              | Batch ID: 76387 RunNo: 98368 |           |             |                 |           |                    |           |          |      |
| Prep Date: 7/21/20                                   | Analysis         | Date: 7/                     | 23/2023   | S           | SeqNo: 3        | 583070    | Units: mg/K        | g         |          |      |
| Analyte  | Result           | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD      | RPDLimit | Qual |
| Diesel Range Organics (D                             | RO) 50           | 10                           | 50.00     | 0           | 99.3            | 61.9      | 130                |           |          |      |
| Surr: DNOP   | 4.6              |                              | 5.000     |             | 91.4            | 69        | 147                |           |          |      |
| Sample ID: MB-763                                    | 37 Samp          | туре: М                      | BLK       | Tes         | tCode: El       | PA Method | 8015M/D: Die       | sel Range | Organics |      |
| Client ID: PBS                                       | Bat              | ch ID: 76                    | 387       | F           | RunNo: <b>9</b> | 3451      |                    |           |          |      |
| Prep Date: 7/21/20                                   | Analysis         | Date: 7/                     | 24/2023   | Ş           | SeqNo: 3        | 583918    | Units: <b>mg/K</b> | g         |          |      |
| Analyte  | Result           | PQL                          | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD      | RPDLimit | Qual |
|  |                  |                              |           |             |                 |           |                    |           |          |      |
| Diesel Range Organics (D                             | RO) ND           | 10                           |           |             |                 |           |                    |           |          |      |
| Diesel Range Organics (D<br>Motor Oil Range Organics | ,                | 10<br>50                     |           |             |                 |           |                    |           |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2307983

31-Jul-23

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| Client:<br>Project: | Devon En<br>Laguna Sa      | 0.           | 4               |                |             |                 |                |                  |              |          |      |
|---------------------|----------------------------|--------------|-----------------|----------------|-------------|-----------------|----------------|------------------|--------------|----------|------|
| Sample ID:          | lcs-76381                  | SampT        | Гуре: <b>LC</b> | s              | Tes         | tCode: El       | PA Method      | 8015D: Gaso      | line Range   |          |      |
| Client ID:          | LCSS                       | Batcl        | h ID: 763       | 381            | F           | RunNo: 9        | 8452           |                  |              |          |      |
| Prep Date:          | 7/21/2023                  | Analysis E   | Date: 7/2       | 24/2023        | ç           | SeqNo: 3        | 583843         | Units: mg/k      | (g           |          |      |
| Analyte             |                            | Result       | PQL             | SPK value      | SPK Ref Val | %REC            | LowLimit       | HighLimit        | -<br>%RPD    | RPDLimit | Qual |
| ,                   | ge Organics (GRO)          | 24           | 5.0             | 25.00          | 0           | 94.4            | 70             | 130              |              |          | Quui |
| Surr: BFB           | , · · · guines ( · · · · ) | 2000         | 0.0             | 1000           | C C         | 197             | 15             | 244              |              |          |      |
| Sample ID:          | mb_76381                   | Samo         | Гуре: МЕ        |                | Tes         | tCode: El       | PA Method      | 8015D: Gaso      | line Range   |          |      |
| -                   |                            |              |                 |                |             |                 |                | 0015D. Gaso      | inte Kange   |          |      |
| Client ID:          | PBS                        |              | h ID: 763       |                |             | RunNo: 9        |                |                  |              |          |      |
| Prep Date:          | 7/21/2023                  | Analysis E   | Date: 7/2       | 24/2023        | S           | SeqNo: 3        | 583844         | Units: mg/k      | (g           |          |      |
| Analyte             |                            | Result       | PQL             | SPK value      | SPK Ref Val | %REC            | LowLimit       | HighLimit        | %RPD         | RPDLimit | Qual |
| Gasoline Rang       | ge Organics (GRO)          | ND           | 5.0             |                |             |                 |                |                  |              |          |      |
| Surr: BFB           |                            | 950          |                 | 1000           |             | 95.2            | 15             | 244              |              |          |      |
| Sample ID:          | 2307983-001ams             | SampT        | Гуре: <b>МS</b> | 6              | Tes         | tCode: El       | PA Method      | 8015D: Gaso      | line Range   |          |      |
| Client ID:          | BG23-01 0.0'               | Batcl        | h ID: 763       | 381            | F           | RunNo: <b>9</b> | 8452           |                  |              |          |      |
| Prep Date:          | 7/21/2023                  | Analysis E   | Date: 7/2       | 24/2023        | S           | SeqNo: 3        | 584038         | Units: mg/k      | (g           |          |      |
| Analyte             |                            | Result       | PQL             | SPK value      | SPK Ref Val | %REC            | LowLimit       | HighLimit        | %RPD         | RPDLimit | Qual |
| Gasoline Rang       | ge Organics (GRO)          | 21           | 4.8             | 23.99          | 0           | 89.5            | 70             | 130              |              |          |      |
| Surr: BFB           |                            | 1900         |                 | 959.7          |             | 199             | 15             | 244              |              |          |      |
| Sample ID:          | 2307983-001amsd            | Samp         | Гуре: МS        | D              | Tes         | tCode: El       | PA Method      | 8015D: Gaso      | line Range   |          |      |
| Client ID:          | BG23-01 0.0'               | •            | h ID: 763       |                |             | RunNo: <b>9</b> |                |                  | 5            |          |      |
| Prep Date:          | 7/21/2023                  | Analysis [   |                 |                |             | SeqNo: 3        |                | Units: mg/k      | a            |          |      |
| Analyte             |                            | Result       | PQL             |                | SPK Ref Val | %REC            | LowLimit       | HighLimit        | %RPD         | RPDLimit | Qual |
| ,                   | ge Organics (GRO)          | Result<br>21 | 4.8             | 24.04          | O O         | %REC<br>87.0    | LOWLIMIL<br>70 | nign∟imit<br>130 | %RPD<br>2.62 | 20       | Quai |
| Surr: BFB           | je organica (Orto)         | 1800         | 4.0             | 24.04<br>961.5 | U           | 190             | 15             | 244              | 2.02         | 20       |      |
| Jun. Di D           |                            | 1000         |                 | 501.5          |             | 150             | 15             | 2-14             | 0            | 0        |      |

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2307983

31-Jul-23

Devon Energy

Laguna Salado Fed 4

**Client:** 

**Project:** 

Client ID:

Sample ID: LCS-76381

LCSS

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Batch ID: 76381

| Prep Date: 7/21/2023  | Analysis [   | Date: 7/2  | 24/2023  | 5   | SeqNo: 3  | 583856  | Units: <b>mg/K</b>   | g  |                            |      |
|---|--|--|--|---|---|---|--|--|----------------------------|------|
| Analyte   | Result   | PQL  | SPK value  | SPK Ref Val   | %REC  | LowLimit  | HighLimit  | %RPD   | RPDLimit                   | Qual |
| Benzene   | 1.1  | 0.025  | 1.000  | 0   | 114   | 70  | 130  |  |                            |      |
| Toluene   | 1.1  | 0.050  | 1.000  | 0   | 115   | 70  | 130  |  |                            |      |
| Ethylbenzene  | 1.2  | 0.050  | 1.000  | 0   | 117   | 70  | 130  |  |                            |      |
| Xylenes, Total  | 3.5  | 0.10   | 3.000  | 0   | 118   | 70  | 130  |  |                            |      |
| Surr: 4-Bromofluorobenzene  | 1.2  |  | 1.000  |   | 120   | 39.1  | 146  |  |                            |      |
| Sample ID: mb-76381   | Samp   | Гуре: <b>МЕ</b>  | BLK  | Tes   | tCode: EF   | PA Method   | 8021B: Volati  | iles   |                            |      |
| Client ID: PBS  | Batc   | h ID: 763  | 381  | F   | RunNo: <b>9</b>   | 3452  |  |  |                            |      |
| Prep Date: 7/21/2023  | Analysis [   | Date: 7/2  | 24/2023  | S   | SeqNo: 3  | 583857  | Units: mg/K  | g  |                            |      |
| Analyte   | Result   | PQL  | SPK value  | SPK Ref Val   | %REC  | LowLimit  | HighLimit  | %RPD   | RPDLimit                   | Qual |
| Benzene   | ND   | 0.025  |  |   |   |   |  |  |                            |      |
| Toluene   | ND   | 0.050  |  |   |   |   |  |  |                            |      |
| Ethylbenzene  | ND   | 0.050  |  |   |   |   |  |  |                            |      |
| Xylenes, Total  | ND   | 0.10   |  |   |   |   |  |  |                            |      |
| Surr: 4-Bromofluorobenzene  | 1.2  |  | 1.000  |   | 119   | 39.1  | 146  |  |                            |      |
| Sample ID: 2307983-002ams   | SampType: <b>MS</b>  |  |  | TestCode: EPA Method 8021B: Volatiles   |   |   |  |  |                            |      |
|   |  |  |  |   |   |   |  |  |                            |      |
| Client ID: BG23-01 2.0'   | Batc   | h ID: 763  | 381  | F   | RunNo: <b>9</b>   | 3452  |  |  |                            |      |
| Client ID: <b>BG23-01 2.0'</b><br>Prep Date: <b>7/21/2023</b>   | Batc<br>Analysis [   |  |  |   | RunNo: 98<br>SeqNo: 38  |   | Units: <b>mg/K</b>   | g  |                            |      |
|   |  |  |  |   |   |   | Units: <b>mg/K</b><br>HighLimit  | g<br>%RPD  | RPDLimit                   | Qual |
| Prep Date: 7/21/2023  | Analysis [   | Date: 7/2  | 24/2023  | S   | SeqNo: 3  | 584057  | Ū.   | •  | RPDLimit                   | Qual |
| Prep Date: 7/21/2023<br>Analyte   | Analysis [<br>Result   | Date: <b>7/</b> 2<br>PQL   | 2 <b>4/2023</b><br>SPK value   | SPK Ref Val<br>0<br>0   | SeqNo: 3:<br>%REC   | 584057<br>LowLimit  | HighLimit  | •  | RPDLimit                   | Qual |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene   | Analysis I<br>Result<br>1.0<br>1.1<br>1.1  | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050  | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>0.9950   | SPK Ref Val<br>0<br>0<br>0  | SeqNo: 39<br>%REC<br>105<br>108<br>110  | 584057<br>LowLimit<br>70<br>70<br>70  | HighLimit<br>130<br>130<br>130   | •  | RPDLimit                   | Qual |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total   | Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3   | Date: 7/2<br>PQL<br>0.025<br>0.050   | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>0.9950<br>2.985  | SPK Ref Val<br>0<br>0   | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109  | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>70  | HighLimit<br>130<br>130<br>130<br>130  | •  | RPDLimit                   | Qual |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene   | Analysis I<br>Result<br>1.0<br>1.1<br>1.1  | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050  | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>0.9950   | SPK Ref Val<br>0<br>0<br>0  | SeqNo: 39<br>%REC<br>105<br>108<br>110  | 584057<br>LowLimit<br>70<br>70<br>70  | HighLimit<br>130<br>130<br>130   | •  | RPDLimit                   | Qual |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total   | Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2  | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050  | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>0.9950<br>2.985<br>0.9950  | SPK Ref Val<br>0<br>0<br>0<br>0   | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119   | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1  | HighLimit<br>130<br>130<br>130<br>130  | %RPD   | RPDLimit                   | Qual |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene   | Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp  | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10  | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950  | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes   | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119   | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>70<br>39.1  | HighLimit<br>130<br>130<br>130<br>130<br>130<br>146  | %RPD   | RPDLimit                   | Qual |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd   | Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp  | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: MS<br>h ID: 763                                       | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>5D<br>381   | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F  | SeqNo: 38<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: EF   | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1<br>PA Method<br>3452   | HighLimit<br>130<br>130<br>130<br>130<br>130<br>146  | %RPD   | RPDLimit                   | Qual |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd<br>Client ID: BG23-01 2.0'  | Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp<br>Batc  | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10<br>Type: MS<br>h ID: 763                                       | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>5D<br>381   | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F  | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: EF  | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1<br>PA Method<br>3452   | HighLimit<br>130<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati   | %RPD   | RPDLimit                   | Qual |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd<br>Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023  | Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp <sup>-</sup><br>Batc<br>Analysis I                                       | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.10<br>Type: MS<br>h ID: 763<br>Date: 7/2<br>PQL<br>0.025                   | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>381<br>24/2023<br>SPK value<br>0.9930                     | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F<br>SPK Ref Val<br>0                          | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: Ef<br>RunNo: 9<br>SeqNo: 3<br>%REC<br>101               | 584057<br>LowLimit<br>70<br>70<br>70<br>70<br>39.1<br>70<br>70<br>70<br>39.1<br>584058<br>LowLimit<br>70        | HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati<br>Units: mg/K<br>HighLimit<br>130                                       | %RPD<br>iles<br>%RPD<br>3.57                       | RPDLimit<br>20             |      |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd<br>Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte                                       | Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp<br>Batc<br>Analysis I<br>Result<br>1.0<br>1.0                            | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.10<br>Type: MS<br>h ID: 763<br>Date: 7/2<br>PQL<br>0.025<br>0.050          | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>5D<br>381<br>24/2023<br>SPK value<br>0.9930<br>0.9930     | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F<br>SPK Ref Val<br>0<br>0                     | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: EF<br>RunNo: 9<br>SeqNo: 3<br>%REC<br>101<br>102        | 584057<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>3452<br>584058<br>LowLimit<br>70<br>70<br>70       | HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati<br>Units: mg/K<br>HighLimit<br>130<br>130<br>130                         | %RPD<br>iles<br>%RPD<br>3.57<br>5.27               | RPDLimit<br>20<br>20       |      |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd<br>Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene | Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp <sup>-</sup><br>Batc<br>Analysis I<br>Result<br>1.0<br>1.0<br>1.0<br>1.0 | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.10<br>Type: MS<br>h ID: 763<br>Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.050 | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>381<br>24/2023<br>SPK value<br>0.9930<br>0.9930<br>0.9930 | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>0<br>Tes<br>5<br>F<br>SPK Ref Val<br>0<br>0<br>0<br>0 | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: EF<br>RunNo: 9<br>SeqNo: 3<br>%REC<br>101<br>102<br>103 | 584057<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>3452<br>584058<br>LowLimit<br>70<br>70<br>70<br>70 | HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati<br>8021B: Volati<br>Units: mg/K<br>HighLimit<br>130<br>130<br>130<br>130 | %RPD<br>iles<br>5g<br>%RPD<br>3.57<br>5.27<br>6.15 | RPDLimit<br>20<br>20<br>20 |      |
| Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2307983-002amsd<br>Client ID: BG23-01 2.0'<br>Prep Date: 7/21/2023<br>Analyte<br>Benzene<br>Toluene                 | Analysis I<br>Result<br>1.0<br>1.1<br>1.1<br>3.3<br>1.2<br>Samp<br>Batc<br>Analysis I<br>Result<br>1.0<br>1.0                            | Date: 7/2<br>PQL<br>0.025<br>0.050<br>0.10<br>Type: MS<br>h ID: 763<br>Date: 7/2<br>PQL<br>0.025<br>0.050          | 24/2023<br>SPK value<br>0.9950<br>0.9950<br>2.985<br>0.9950<br>5D<br>381<br>24/2023<br>SPK value<br>0.9930<br>0.9930     | SPK Ref Val<br>0<br>0<br>0<br>0<br>0<br>Tes<br>F<br>SPK Ref Val<br>0<br>0                     | SeqNo: 3<br>%REC<br>105<br>108<br>110<br>109<br>119<br>tCode: EF<br>RunNo: 9<br>SeqNo: 3<br>%REC<br>101<br>102        | 584057<br>LowLimit<br>70<br>70<br>70<br>39.1<br>PA Method<br>3452<br>584058<br>LowLimit<br>70<br>70<br>70       | HighLimit<br>130<br>130<br>130<br>130<br>146<br>8021B: Volati<br>Units: mg/K<br>HighLimit<br>130<br>130<br>130                         | %RPD<br>iles<br>%RPD<br>3.57<br>5.27               | RPDLimit<br>20<br>20       |      |

TestCode: EPA Method 8021B: Volatiles

RunNo: 98452

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#: 2307983 31-Jul-23

| HALL<br>ENVIRONMENTA<br>ANALYSIS<br>LABORATORY                   | <b>AL</b><br><i>TEL: 505-345-3</i>     | ntal Analysis Labor<br>4901 Hawki<br>Albuquerque, NM 8<br>8975 FAX: 505-345<br>w.hallenvironmenta | ns NE<br>87109 <b>Sam</b><br>-4107      | ple Log-In Chec                            | k List       |
|--|--|---|---|--|--------------|
| Client Name: Devon Ener  | rgy Work Order Num                     | ber: 2307983  |   | RcptNo: 1                                  |              |
| Received By: Juan Roja   | s 7/21/2023 7:50:00                    | AM  | (Jean & g)                              |  |              |
| Completed By: Tracy Cas<br>Reviewed By: フハヲ/                     |  | AM  |   |  |              |
| Chain of Custody   |  |   | _                                       | _  |              |
| 1. Is Chain of Custody compl                                     | ete?                                   | Yes 🗌   | No 🔽                                    | Not Present                                |              |
| 2. How was the sample delive                                     | ered?                                  | <u>Courier</u>  |   |  |              |
| Log In<br>3. Was an attempt made to c                            | ool the samples?                       | Yes 🔽   | No 🗌                                    |  |              |
| 4. Were all samples received                                     | at a temperature of >0° C to 6.0°C     | Yes 🗹   | No 🗌                                    |  |              |
| 5. Sample(s) in proper contai                                    | ner(s)?                                | Yes 🗹   | No 🗌                                    |  |              |
| 6. Sufficient sample volume for                                  | or indicated test(s)?                  | Yes 🗹   | No 🗌                                    |  |              |
| 7. Are samples (except VOA                                       | and ONG) properly preserved?           | Yes 🗹   | No 🗌                                    |  |              |
| 8. Was preservative added to                                     | bottles?                               | Yes 🗌   | No 🗹                                    | NA 🗌                                       |              |
| 9. Received at least 1 vial with                                 | h headspace <1/4" for AQ VOA?          | Yes   | No 🗌                                    | NA 🗹                                       |              |
| 10. Were any sample containe                                     | ers received broken?                   | Yes   | No 🔽                                    | # of preserved                             |              |
| 11.Does paperwork match bot<br>(Note discrepancies on cha        |  | Yes 🔽   | No 🗌                                    | bottles checked<br>for pH:<br>(<2 or >12 u | nless noted) |
| 12. Are matrices correctly iden                                  | tified on Chain of Custody?            | Yes 🗹   | No 🗌                                    | Adjusted7                                  |              |
| 13. Is it clear what analyses we                                 | ere requested?                         | Yes 🗹   | No 🗌                                    | 1 SIM                                      | 07/21/27     |
| 14. Were all holding times able<br>(If no, notify customer for a |  | Yes 🗹   | No 🗌                                    | Checked by: 2C1*1                          | 0 [[0]] 75   |
| Special Handling (if app   | licable)                               |   |   | /  |              |
| 15. Was client notified of all di                                | screpancies with this order?           | Yes 🗌   | No 🗌                                    | NA 🗹                                       |              |
| Person Notified:   | Date                                   | : [   | and the definition of the second second |  |              |
| By Whom:   | Via:                                   | eMail   | Phone 📋 Fax                             | In Person                                  |              |
| Regarding:   |  |   |   |  |              |
| Client Instructions:   | Mailing address, phone number and E    | mail/Fax are miss   | ing on COC - TN                         | AC 7/21/23                                 |              |
| 16. Additional remarks:  |  |   |   |  |              |
| 17. <u>Cooler Information</u><br>Cooler No Temp °C<br>1 0.7      | ConditionSeal IntactSeal NoGoodYesYogi | Seal Date   | Signed By                               |  |              |
|  |  |   |   |  |              |

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| Receive | d by OCD             | : 1/8/202 | 5 1:37:44 PM      |            |            |          |   |                                      |                           |               |                 |         |                             |               |                             |            |   |                                 |         | Pa              | ge 23    | 9 of 35 |
|---------|----------------------|-----------|-------------------|------------|------------|----------|---|--------------------------------------|---------------------------|---------------|-----------------|---------|-----------------------------|---------------|-----------------------------|------------|---|---------------------------------|---------|-----------------|----------|---------|
| C       | hain                 | -of-Ci    | ustody Rec        | ord        | Turn-Ar    |          |   |                                      |                           |               |                 | н       |                             |               | F                           | vv         | TR                                      | 201                             | NM      | EN.             | ГАІ      |         |
| Client: |                      | Dev       | พา                |            | Star       | ndard    | Z Rush  | 5 Dan<br>Fed #4                      | HALL ENVIRONMENTAL        |               |                 |         |                             |               |                             |            |   |                                 |         |                 |          |         |
|         | Dire                 | ect f     |                   |            | Project    | Name     | e:  | C/+14                                | www.hallenvironmental.com |               |                 |         |                             |               |                             |            |   |                                 |         |                 |          |         |
| Mailing | Address              |           | 5111              |            | Lagu       | n -      | Salado I  | ed the                               |                           | 49            | 01 H            | awki    | ns N                        | IE -          | Alb                         | uque       | erqu                                    | e, NN                           | И 871   | 09              |          |         |
|         | ×11.                 |           |                   |            | Project    | #:       | 201 202   |                                      |                           |               |                 | 5-34    |                             |               |                             |            |   |                                 | 4107    |                 |          |         |
| Phone   | #:                   |           |                   | - 11       |            | 231      | E-01414   | to see enh                           |                           |               |                 |         |                             | A             | naly                        | sis I      | Req                                     | uest                            |         |                 |          |         |
| email c | or Fax#:             |           |                   |            | Project    | Mana     | ger:<br>Stalling  |                                      | Ê                         | Ô             |                 |         |                             |               | SO4                         |            |   | ent)                            |         | and the second  |          |         |
| QA/QC   | Package:             |           |                   |            | <i>k</i>   | ent      | - Stalling  | 2                                    | TMB's (8021)              | / DRO / MRO)  | PCB's           |         | SMI                         |               | PO4, 5                      |            | - 1                                     | Total Coliform (Present/Absent) |         |                 |          |         |
| 🗆 Star  |                      |           | □ Level 4 (Full V | alidation) | AH         |          |   |                                      | B's                       | RO            |                 |         | 8270SIMS                    |               | 2, P(                       |            |   | ent/                            |         |                 |          |         |
|         |                      |           | ompliance         |            | Sampler: A |          |   |                                      | ₽                         |               | /808            | 504.1)  | or 82                       |               | NO <sub>2</sub> ,           |            | F                                       | Pres                            |         |                 |          | 5       |
|         | AC<br>D (Type)       | □ Othe    | r <u></u>         |            | # of Co    | olers:   |   | 909:                                 | BE /                      | GRO           | ides            | od 5(   |                             | tals          | Õ3,                         |            | 10 <u>7</u>                             | E<br>E                          |         |                 |          |         |
|         |                      | Γ         |                   |            |            |          | - to an a state of the second s | .6+0.1=0.7 (°C)                      | MTBE                      | TPH B015D(GRO | Pesticides/8082 | (Method | PAHs by 8310                | RCRA 8 Metals | CI,F, Br, NO <sub>3</sub> , | 8260 (VOA) | 8270 (Semi-VOA)                         | olifo                           |         |                 |          |         |
|         |                      |           |                   |            | Contain    | or       | Preservative  | HEAL No.                             | A                         | 00            | 1 P             | N S     | 다<br>우                      | RA            | L.                          | S          | 0 (S                                    | al                              |         | 6.67            |          |         |
| Date    | Time                 | Matrix    | Sample Name       | )          | Type ar    |          | Туре  | 2307983                              | BIE                       | 阆             | 8081            | EDB     | PA                          | 22<br>C2      | <u>(5)</u>                  | 826        | 827                                     | Tot                             |         |                 |          |         |
| 7-19-23 | 1000                 | Soil      | B423-01           | 0.0        | 402        | 11       | ICE   | 001                                  | Ĭ                         | 1             |                 |         |                             |               | Y                           |            |   |                                 |         |                 |          |         |
| 1       | 1010                 | 1.1       | B623-01           | 2,0'       | 1          |          | 100 P   | 002                                  |                           |               |                 | -       | -12                         | -6-3          |                             |            |   | 1.0                             | (a. 1)  | 1               |          |         |
|         | 1020                 |           | B623-02           | 0.0        |            |          |   | 003                                  |                           |               |                 |         | 101-0                       | 5.÷.          |                             |            |   | 1993 (m. 1                      | nasa en | 212             |          |         |
|         | 1030                 |           | B623-02           | 2,0        |            | 254<br>1 |   | 1004                                 | Π                         |               |                 |         | 2.2                         |               |                             | 222        |   | 223                             |         | 1               |          |         |
|         | 1040                 |           | B623-03           | 0.0        |            | 17       | 1. aria.  | 005                                  |                           |               |                 |         | -                           | 1             | Π                           |            |   | t san t                         | ξ.,     |                 |          |         |
|         | 1050                 |           | B623-03           | 2,0        |            | 1.00     | 37.27 2227  | 006                                  | Π                         |               |                 |         | $\mathcal{D}_{\mathcal{D}}$ | 1.0           |                             |            |   |                                 |         | 6 <b>-</b> 1997 |          |         |
|         | 1100                 |           | B/723-01          | 0,0        |            |          |   | 007                                  |                           |               |                 |         |                             |               | $\square$                   |            |   |                                 |         | i da seren      |          |         |
|         | 1110                 |           | B1+23-01          | 2,0'       | 1          | -        |   | 000                                  | Π                         |               |                 |         | . 05                        |               |                             |            |   |                                 |         |                 |          |         |
|         | 1120                 |           | B/+23-02          | 0,0'       |            |          |   | 009                                  |                           |               |                 |         |                             |               |                             |            | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |                                 |         |                 |          |         |
|         | 1.130                |           | 31+23-02          | 2.0        |            |          | V   | 010                                  | V                         | V             |                 |         |                             |               | $\mathbb{V}$                |            | ta ormali                               | 1.24%                           | fectors | 1 m - 1 m - 1 m |          |         |
|         |                      | V         |                   |            |            | . =      |   | er proposition and the second second |                           |               |                 | - 22    |                             |               |                             |            |   |                                 |         | -               |          |         |
| V       |                      |           | E PR E            |            |            |          |   | ette in the the                      |                           |               |                 | 1.00    | len.<br>Section             |               | 1-21                        | railer (   |   |                                 |         |                 |          |         |
| Date:   | Time:                | Relinquis | ned by:           |            | Received   |          | Via:  | Date Time                            | Rei                       | mark          | s:              |         | :                           | Ker           | nt                          | 5          | hal                                     | lins                            | s       |                 |          |         |
|         |                      |           |                   |            | Wan        | MA       | Via:  | Thomas BOD<br>Date Time              | -                         |               | $\mathcal{C}$   |         | 1                           |               | 4                           | 11,        | 100                                     | - 1                             | R       | her.            | <u> </u> |         |
| Date:   |                      |           | Received          |            | 0          |          |   |                                      |                           |               | 11              | SV      | 41                          |               | CC,                         | Cu         | 100                                     | C 1 .                           | 29      |                 |          |         |
| 10005   | 1/20/23 1900 GAULING |           |                   | 1          | 1          | - court  | er 7/21/23 7:50   | 1                                    |                           |               |                 |         |                             |               |                             |            |   |                                 |         | (               |          |         |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



September 08, 2022

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Laguna Salado

OrderNo.: 2208H98

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/31/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab ID:

**CLIENT:** Vertex Resources Services, Inc.

2208H98-001

Analytical Report Lab Order 2208H98

Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

 Client Sample ID: BG22-01 0ft

 Collection Date: 8/29/2022 10:30:00 AM

 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

|        |  | al Units   | DF  | Date Analyzed   |
|--------|--|--|---|---|
| GANICS |  |  |   | Analyst: DGH  |
| ND     | 14   | mg/Kg  | 1   | 9/2/2022 9:08:27 PM   |
| ND     | 47   | mg/Kg  | 1   | 9/2/2022 9:08:27 PM   |
| 79.9   | 21-129   | %Rec   | 1   | 9/2/2022 9:08:27 PM   |
|        |  |  |   | Analyst: BRM  |
| ND     | 4.8  | mg/Kg  | 1   | 9/1/2022 9:04:00 PM   |
| 93.6   | 37.7-212   | %Rec   | 1   | 9/1/2022 9:04:00 PM   |
|        |  |  |   | Analyst: BRM  |
| ND     | 0.024  | mg/Kg  | 1   | 9/1/2022 9:04:00 PM   |
| ND     | 0.048  | mg/Kg  | 1   | 9/1/2022 9:04:00 PM   |
| ND     | 0.048  | mg/Kg  | 1   | 9/1/2022 9:04:00 PM   |
| ND     | 0.097  | mg/Kg  | 1   | 9/1/2022 9:04:00 PM   |
| 88.0   | 70-130   | %Rec   | 1   | 9/1/2022 9:04:00 PM   |
|        |  |  |   | Analyst: NAI  |
| 22000  | 1500   | mg/Kg  | 500   | 9/6/2022 11:46:24 PM  |
|        | ND<br>79.9<br>ND<br>93.6<br>ND<br>ND<br>ND<br>88.0 | ND         14           ND         47           79.9         21-129           ND         4.8           93.6         37.7-212           ND         0.024           ND         0.048           ND         0.048           ND         0.097           88.0         70-130 | ND         14         mg/Kg           ND         47         mg/Kg           79.9         21-129         %Rec           ND         4.8         mg/Kg           93.6         37.7-212         %Rec           ND         0.024         mg/Kg           ND         0.048         mg/Kg           ND         0.048         mg/Kg           ND         0.097         mg/Kg           88.0         70-130         %Rec | ND         14         mg/Kg         1           ND         47         mg/Kg         1           79.9         21-129         %Rec         1           ND         4.8         mg/Kg         1           93.6         37.7-212         %Rec         1           ND         0.024         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.097         mg/Kg         1           88.0         70-130         %Rec         1 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

**CLIENT:** Vertex Resources Services, Inc.

Analytical Report Lab Order 2208H98

Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG22-01 1ft Collection Date: 8/29/2022 10:40:00 AM Received Date: 8/31/2022 7:40:00 AM

| Lab ID: 2208H98-002              | Matrix: SOIL | Recei    | ved Date: | 8/31/2 | 022 7:40:00 AM       |
|----------------------------------|--------------|----------|-----------|--------|----------------------|
| Analyses                         | Result       | RL Qua   | l Units   | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |           |        | Analyst: DGH         |
| Diesel Range Organics (DRO)      | ND           | 14       | mg/Kg     | 1      | 9/2/2022 9:19:31 PM  |
| Motor Oil Range Organics (MRO)   | ND           | 46       | mg/Kg     | 1      | 9/2/2022 9:19:31 PM  |
| Surr: DNOP                       | 82.5         | 21-129   | %Rec      | 1      | 9/2/2022 9:19:31 PM  |
| EPA METHOD 8015D: GASOLINE RANGE |              |          |           |        | Analyst: BRM         |
| Gasoline Range Organics (GRO)    | ND           | 4.9      | mg/Kg     | 1      | 9/1/2022 9:23:00 PM  |
| Surr: BFB                        | 93.7         | 37.7-212 | %Rec      | 1      | 9/1/2022 9:23:00 PM  |
| EPA METHOD 8021B: VOLATILES      |              |          |           |        | Analyst: BRM         |
| Benzene                          | ND           | 0.024    | mg/Kg     | 1      | 9/1/2022 9:23:00 PM  |
| Toluene                          | ND           | 0.049    | mg/Kg     | 1      | 9/1/2022 9:23:00 PM  |
| Ethylbenzene                     | ND           | 0.049    | mg/Kg     | 1      | 9/1/2022 9:23:00 PM  |
| Xylenes, Total                   | ND           | 0.098    | mg/Kg     | 1      | 9/1/2022 9:23:00 PM  |
| Surr: 4-Bromofluorobenzene       | 88.7         | 70-130   | %Rec      | 1      | 9/1/2022 9:23:00 PM  |
| EPA METHOD 300.0: ANIONS         |              |          |           |        | Analyst: NAI         |
| Chloride                         | 5900         | 300      | mg/Kg     | 100    | 9/6/2022 11:58:48 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

Lab ID:

**CLIENT:** Vertex Resources Services, Inc.

2208H98-003

Analytical Report Lab Order 2208H98

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/8/2022 Client Sample ID: BG22-01 2ft Collection Date: 8/29/2022 10:50:00 AM

Received Date: 8/31/2022 7:40:00 AM

| Analyses                             | Result | RL Qual  | Units | DF  | Date Analyzed        |
|--------------------------------------|--------|----------|-------|-----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS |          |       |     | Analyst: DGH         |
| Diesel Range Organics (DRO)          | ND     | 13       | mg/Kg | 1   | 9/2/2022 9:30:37 PM  |
| Motor Oil Range Organics (MRO)       | ND     | 45       | mg/Kg | 1   | 9/2/2022 9:30:37 PM  |
| Surr: DNOP                           | 85.2   | 21-129   | %Rec  | 1   | 9/2/2022 9:30:37 PM  |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |       |     | Analyst: BRM         |
| Gasoline Range Organics (GRO)        | ND     | 4.9      | mg/Kg | 1   | 9/1/2022 9:43:00 PM  |
| Surr: BFB                            | 93.5   | 37.7-212 | %Rec  | 1   | 9/1/2022 9:43:00 PM  |
| EPA METHOD 8021B: VOLATILES          |        |          |       |     | Analyst: BRM         |
| Benzene                              | ND     | 0.025    | mg/Kg | 1   | 9/1/2022 9:43:00 PM  |
| Toluene                              | ND     | 0.049    | mg/Kg | 1   | 9/1/2022 9:43:00 PM  |
| Ethylbenzene                         | ND     | 0.049    | mg/Kg | 1   | 9/1/2022 9:43:00 PM  |
| Xylenes, Total                       | ND     | 0.099    | mg/Kg | 1   | 9/1/2022 9:43:00 PM  |
| Surr: 4-Bromofluorobenzene           | 90.4   | 70-130   | %Rec  | 1   | 9/1/2022 9:43:00 PM  |
| EPA METHOD 300.0: ANIONS             |        |          |       |     | Analyst: NAI         |
| Chloride                             | 7000   | 300      | mg/Kg | 100 | 9/7/2022 12:11:13 AM |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**CLIENT:** Vertex Resources Services, Inc.

Analytical Report Lab Order 2208H98

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/8/2022 Client Sample ID: BG22-01 4ft Collection Date: 8/29/2022 11:00:00 AM

| Project: Laguna Salado         |              | Collec   | ction Date: | 8/29/2 | 022 11:00:00 AM      |
|--------------------------------|--------------|----------|-------------|--------|----------------------|
| Lab ID: 2208H98-004            | Matrix: SOIL | Rece     | eived Date: | 8/31/2 | 022 7:40:00 AM       |
| Analyses                       | Result       | RL Qu    | al Units    | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS  |          |             |        | Analyst: DGH         |
| Diesel Range Organics (DRO)    | ND           | 13       | mg/Kg       | 1      | 9/2/2022 9:41:39 PM  |
| Motor Oil Range Organics (MRO) | ND           | 43       | mg/Kg       | 1      | 9/2/2022 9:41:39 PM  |
| Surr: DNOP                     | 83.2         | 21-129   | %Rec        | 1      | 9/2/2022 9:41:39 PM  |
| EPA METHOD 8015D: GASOLINE RAN | IGE          |          |             |        | Analyst: BRM         |
| Gasoline Range Organics (GRO)  | ND           | 5.0      | mg/Kg       | 1      | 9/1/2022 10:03:00 PM |
| Surr: BFB                      | 94.1         | 37.7-212 | %Rec        | 1      | 9/1/2022 10:03:00 PM |
| EPA METHOD 8021B: VOLATILES    |              |          |             |        | Analyst: BRM         |
| Benzene                        | ND           | 0.025    | mg/Kg       | 1      | 9/1/2022 10:03:00 PM |
| Toluene                        | ND           | 0.050    | mg/Kg       | 1      | 9/1/2022 10:03:00 PM |
| Ethylbenzene                   | ND           | 0.050    | mg/Kg       | 1      | 9/1/2022 10:03:00 PM |
| Xylenes, Total                 | ND           | 0.10     | mg/Kg       | 1      | 9/1/2022 10:03:00 PM |
| Surr: 4-Bromofluorobenzene     | 89.4         | 70-130   | %Rec        | 1      | 9/1/2022 10:03:00 PM |
| EPA METHOD 300.0: ANIONS       |              |          |             |        | Analyst: NAI         |
| Chloride                       | 7800         | 300      | mg/Kg       | 100    | 9/7/2022 12:23:38 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**CLIENT:** Vertex Resources Services, Inc.

Analytical Report Lab Order 2208H98

Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG22-02 0ft Collection Date: 8/29/2022 11:10:00 AM Received Date: 8/31/2022 7:40:00 AM

| Lab ID: 2208H98-005              | Matrix: SOIL | Recei    | ved Date: | 8/31/2 | 022 7:40:00 AM       |
|----------------------------------|--------------|----------|-----------|--------|----------------------|
| Analyses                         | Result       | RL Qua   | l Units   | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |           |        | Analyst: DGH         |
| Diesel Range Organics (DRO)      | ND           | 15       | mg/Kg     | 1      | 9/2/2022 10:03:31 PM |
| Motor Oil Range Organics (MRO)   | ND           | 50       | mg/Kg     | 1      | 9/2/2022 10:03:31 PM |
| Surr: DNOP                       | 113          | 21-129   | %Rec      | 1      | 9/2/2022 10:03:31 PM |
| EPA METHOD 8015D: GASOLINE RANGE | E            |          |           |        | Analyst: BRM         |
| Gasoline Range Organics (GRO)    | ND           | 5.0      | mg/Kg     | 1      | 9/1/2022 10:22:00 PM |
| Surr: BFB                        | 94.2         | 37.7-212 | %Rec      | 1      | 9/1/2022 10:22:00 PM |
| EPA METHOD 8021B: VOLATILES      |              |          |           |        | Analyst: BRM         |
| Benzene                          | ND           | 0.025    | mg/Kg     | 1      | 9/1/2022 10:22:00 PM |
| Toluene                          | ND           | 0.050    | mg/Kg     | 1      | 9/1/2022 10:22:00 PM |
| Ethylbenzene                     | ND           | 0.050    | mg/Kg     | 1      | 9/1/2022 10:22:00 PM |
| Xylenes, Total                   | ND           | 0.099    | mg/Kg     | 1      | 9/1/2022 10:22:00 PM |
| Surr: 4-Bromofluorobenzene       | 89.5         | 70-130   | %Rec      | 1      | 9/1/2022 10:22:00 PM |
| EPA METHOD 300.0: ANIONS         |              |          |           |        | Analyst: NAI         |
| Chloride                         | 7000         | 300      | mg/Kg     | 100    | 9/7/2022 12:36:03 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Lab ID:

**CLIENT:** Vertex Resources Services, Inc.

2208H98-006

Analytical Report Lab Order 2208H98

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/8/2022 Client Sample ID: BG22-02 1ft Collection Date: 8/29/2022 11:20:00 AM

Received Date: 8/31/2022 7:40:00 AM

| Analyses                             | Result | RL Qu    | al Units | DF | Date Analyzed        |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS |          |          |    | Analyst: DGH         |
| Diesel Range Organics (DRO)          | ND     | 15       | mg/Kg    | 1  | 9/2/2022 10:14:29 PM |
| Motor Oil Range Organics (MRO)       | ND     | 50       | mg/Kg    | 1  | 9/2/2022 10:14:29 PM |
| Surr: DNOP                           | 89.5   | 21-129   | %Rec     | 1  | 9/2/2022 10:14:29 PM |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |          |    | Analyst: BRM         |
| Gasoline Range Organics (GRO)        | ND     | 4.7      | mg/Kg    | 1  | 9/1/2022 10:42:00 PM |
| Surr: BFB                            | 96.1   | 37.7-212 | %Rec     | 1  | 9/1/2022 10:42:00 PM |
| EPA METHOD 8021B: VOLATILES          |        |          |          |    | Analyst: BRM         |
| Benzene                              | ND     | 0.024    | mg/Kg    | 1  | 9/1/2022 10:42:00 PM |
| Toluene                              | ND     | 0.047    | mg/Kg    | 1  | 9/1/2022 10:42:00 PM |
| Ethylbenzene                         | ND     | 0.047    | mg/Kg    | 1  | 9/1/2022 10:42:00 PM |
| Xylenes, Total                       | ND     | 0.095    | mg/Kg    | 1  | 9/1/2022 10:42:00 PM |
| Surr: 4-Bromofluorobenzene           | 89.8   | 70-130   | %Rec     | 1  | 9/1/2022 10:42:00 PM |
| EPA METHOD 300.0: ANIONS             |        |          |          |    | Analyst: NAI         |
| Chloride                             | 3800   | 150      | mg/Kg    | 50 | 9/7/2022 12:48:27 AM |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab ID:

**CLIENT:** Vertex Resources Services, Inc.

2208H98-007

Analytical Report Lab Order 2208H98

Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG22-02 2ft Collection Date: 8/29/2022 11:30:00 AM Received Date: 8/31/2022 7:40:00 AM

| <b>Eub ID:</b> 220011/0 007      | Soll     | 1000     | ived Dute | 2022 / 10:00 / 101 |                      |  |  |
|----------------------------------|----------|----------|-----------|--------------------|----------------------|--|--|
| Analyses                         | Result   | RL Qu    | al Units  | DF                 | Date Analyzed        |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS |          |           |                    | Analyst: DGH         |  |  |
| Diesel Range Organics (DRO)      | ND       | 15       | mg/Kg     | 1                  | 9/2/2022 10:25:29 PM |  |  |
| Motor Oil Range Organics (MRO)   | ND       | 50       | mg/Kg     | 1                  | 9/2/2022 10:25:29 PM |  |  |
| Surr: DNOP                       | 80.8     | 21-129   | %Rec      | 1                  | 9/2/2022 10:25:29 PM |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E        |          |           |                    | Analyst: BRM         |  |  |
| Gasoline Range Organics (GRO)    | ND       | 4.9      | mg/Kg     | 1                  | 9/1/2022 11:02:00 PM |  |  |
| Surr: BFB                        | 98.9     | 37.7-212 | %Rec      | 1                  | 9/1/2022 11:02:00 PM |  |  |
| EPA METHOD 8021B: VOLATILES      |          |          |           |                    | Analyst: BRM         |  |  |
| Benzene                          | ND       | 0.025    | mg/Kg     | 1                  | 9/1/2022 11:02:00 PM |  |  |
| Toluene                          | ND       | 0.049    | mg/Kg     | 1                  | 9/1/2022 11:02:00 PM |  |  |
| Ethylbenzene                     | ND       | 0.049    | mg/Kg     | 1                  | 9/1/2022 11:02:00 PM |  |  |
| Xylenes, Total                   | ND       | 0.098    | mg/Kg     | 1                  | 9/1/2022 11:02:00 PM |  |  |
| Surr: 4-Bromofluorobenzene       | 90.3     | 70-130   | %Rec      | 1                  | 9/1/2022 11:02:00 PM |  |  |
| EPA METHOD 300.0: ANIONS         |          |          |           |                    | Analyst: NAI         |  |  |
| Chloride                         | 2800     | 150      | mg/Kg     | 50                 | 9/7/2022 1:25:41 AM  |  |  |
|                                  |          |          |           |                    |                      |  |  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab ID:

**CLIENT:** Vertex Resources Services, Inc.

2208H98-008

Analytical Report Lab Order 2208H98

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/8/2022 Client Sample ID: BG22-03 0ft Collection Date: 8/29/2022 11:40:00 AM

Received Date: 8/31/2022 7:40:00 AM

| Analyses                            | Result | RL Qua   | Units | DF  | Date Analyzed        |
|-------------------------------------|--------|----------|-------|-----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |       |     | Analyst: DGH         |
| Diesel Range Organics (DRO)         | ND     | 14       | mg/Kg | 1   | 9/2/2022 10:36:24 PM |
| Motor Oil Range Organics (MRO)      | ND     | 48       | mg/Kg | 1   | 9/2/2022 10:36:24 PM |
| Surr: DNOP                          | 80.8   | 21-129   | %Rec  | 1   | 9/2/2022 10:36:24 PM |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |       |     | Analyst: BRM         |
| Gasoline Range Organics (GRO)       | ND     | 4.7      | mg/Kg | 1   | 9/1/2022 11:41:00 PM |
| Surr: BFB                           | 94.8   | 37.7-212 | %Rec  | 1   | 9/1/2022 11:41:00 PM |
| EPA METHOD 8021B: VOLATILES         |        |          |       |     | Analyst: BRM         |
| Benzene                             | ND     | 0.024    | mg/Kg | 1   | 9/1/2022 11:41:00 PM |
| Toluene                             | ND     | 0.047    | mg/Kg | 1   | 9/1/2022 11:41:00 PM |
| Ethylbenzene                        | ND     | 0.047    | mg/Kg | 1   | 9/1/2022 11:41:00 PM |
| Xylenes, Total                      | ND     | 0.094    | mg/Kg | 1   | 9/1/2022 11:41:00 PM |
| Surr: 4-Bromofluorobenzene          | 88.2   | 70-130   | %Rec  | 1   | 9/1/2022 11:41:00 PM |
| EPA METHOD 300.0: ANIONS            |        |          |       |     | Analyst: NAI         |
| Chloride                            | 16000  | 1500     | mg/Kg | 500 | 9/7/2022 1:38:06 AM  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**CLIENT:** Vertex Resources Services, Inc.

Analytical Report Lab Order 2208H98

Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG22-03 1ft Collection Date: 8/29/2022 11:50:00 AM Received Date: 8/31/2022 7:40:00 AM

| Lab ID: 2208H98-009              | Matrix: SOIL | Recei    | ved Date: | 8/31/2 | 022 7:40:00 AM       |
|----------------------------------|--------------|----------|-----------|--------|----------------------|
| Analyses                         | Result       | RL Qua   | l Units   | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |           |        | Analyst: DGH         |
| Diesel Range Organics (DRO)      | ND           | 14       | mg/Kg     | 1      | 9/2/2022 10:47:24 PM |
| Motor Oil Range Organics (MRO)   | ND           | 46       | mg/Kg     | 1      | 9/2/2022 10:47:24 PM |
| Surr: DNOP                       | 85.3         | 21-129   | %Rec      | 1      | 9/2/2022 10:47:24 PM |
| EPA METHOD 8015D: GASOLINE RANGE |              |          |           |        | Analyst: BRM         |
| Gasoline Range Organics (GRO)    | ND           | 4.9      | mg/Kg     | 1      | 9/2/2022 12:01:00 AM |
| Surr: BFB                        | 91.3         | 37.7-212 | %Rec      | 1      | 9/2/2022 12:01:00 AM |
| EPA METHOD 8021B: VOLATILES      |              |          |           |        | Analyst: BRM         |
| Benzene                          | ND           | 0.025    | mg/Kg     | 1      | 9/2/2022 12:01:00 AM |
| Toluene                          | ND           | 0.049    | mg/Kg     | 1      | 9/2/2022 12:01:00 AM |
| Ethylbenzene                     | ND           | 0.049    | mg/Kg     | 1      | 9/2/2022 12:01:00 AM |
| Xylenes, Total                   | ND           | 0.098    | mg/Kg     | 1      | 9/2/2022 12:01:00 AM |
| Surr: 4-Bromofluorobenzene       | 87.6         | 70-130   | %Rec      | 1      | 9/2/2022 12:01:00 AM |
| EPA METHOD 300.0: ANIONS         |              |          |           |        | Analyst: NAI         |
| Chloride                         | 13000        | 600      | mg/Kg     | 200    | 9/7/2022 1:50:31 AM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

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| Client:<br>Project: | Vertex<br>Laguna                   | Resources Se<br>Salado | ervices,       | Inc.      |             |                  |                                    |              |      |          |      |  |  |
|---------------------|------------------------------------|------------------------|----------------|-----------|-------------|------------------|------------------------------------|--------------|------|----------|------|--|--|
| Sample ID: MB-      | Sample ID: MB-69960 SampType: mblk |                        |                |           |             |                  | TestCode: EPA Method 300.0: Anions |              |      |          |      |  |  |
| Client ID: PBS      | Client ID: PBS Batch ID: 69960     |                        |                |           |             | RunNo: <b>90</b> | 825                                |              |      |          |      |  |  |
| Prep Date: 9/4      | 4/2022                             | Analysis D             | ate: <b>9/</b> | 4/2022    | 5           | SeqNo: 32        | 247629                             | Units: mg/K  | g    |          |      |  |  |
| Analyte             |                                    | Result                 | PQL            | SPK value | SPK Ref Val | %REC             | LowLimit                           | HighLimit    | %RPD | RPDLimit | Qual |  |  |
| Chloride            |                                    | ND                     | 1.5            |           |             |                  |                                    |              |      |          |      |  |  |
| Sample ID: LCS      | S-69960                            | SampT                  | ype: Ics       | ;         | Tes         | tCode: EF        | A Method                           | 300.0: Anion | s    |          |      |  |  |
| Client ID: LCS      | SS                                 | Batch                  | ID: 69         | 960       | F           | RunNo: <b>90</b> | 825                                |              |      |          |      |  |  |
| Prep Date: 9/4      | 4/2022                             | Analysis D             | ate: <b>9/</b> | 4/2022    | 5           | SeqNo: 32        | 247630                             | Units: mg/K  | g    |          |      |  |  |
| Analyte             |                                    | Result                 | PQL            | SPK value | SPK Ref Val | %REC             | LowLimit                           | HighLimit    | %RPD | RPDLimit | Qual |  |  |
| Chloride            |                                    | 14                     | 1.5            | 15.00     | 0           | 96.2             | 90                                 | 110          |      |          |      |  |  |

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- RL Reporting Limit

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2208H98

08-Sep-22

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

|  | Resources Services<br>a Salado                   | , Inc.                      |   |              |           |                                 |           |            |      |  |
|--|--|-----------------------------|---|--------------|-----------|---------------------------------|-----------|------------|------|--|
| Sample ID: LCS-69963   | SampType: LC                                     | S                           | Test  | tCode: EF    | PA Method | 8015M/D: Die                    | sel Range | e Organics |      |  |
| Client ID: LCSS  | Batch ID: 69                                     | 963                         | R   | RunNo: 90816 |           |                                 |           |            |      |  |
| Prep Date: 9/6/2022  | Analysis Date: 9/                                | /6/2022                     | S   | SeqNo: 32    | 246556    | Units: %Rec                     | :         |            |      |  |
| Analyte  | Result PQL                                       | SPK value                   | SPK Ref Val   | %REC         | LowLimit  | HighLimit                       | %RPD      | RPDLimit   | Qual |  |
| Surr: DNOP   | 3.1  | 5.000                       |   | 62.4         | 21        | 129                             |           |            |      |  |
| Sample ID: MB-69963  | SampType: MI                                     | BLK                         | TestCode: EPA Method 8015M/D: Diesel Range Organics |              |           |                                 |           |            |      |  |
| Client ID: PBS   | Batch ID: 69                                     | 963                         | RunNo: 90816  |              |           |                                 |           |            |      |  |
| Prep Date: 9/6/2022  | 9/6/2022 Analysis Date: 9/6/2022                 |                             |   |              | 246558    | Units: %Rec                     | ;         |            |      |  |
| Analyte  | Result PQL                                       | SPK value                   | SPK Ref Val   | %REC         | LowLimit  | HighLimit                       | %RPD      | RPDLimit   | Qual |  |
| Surr: DNOP   | 7.7  | 10.00                       |   | 77.0         | 21        | 129                             |           |            |      |  |
| Sample ID: LCS-69899   | SampType: LC                                     | s                           | Test  | tCode: EF    | PA Method | 8015M/D: Die                    | sel Range | e Organics |      |  |
| Client ID: LCSS  | Batch ID: 69                                     | 899                         | RunNo: 90763  |              |           |                                 |           |            |      |  |
| Prep Date: 8/31/2022   | Analysis Date: 9/                                | /2/2022                     | S   | SeqNo: 32    | 246702    | Units: mg/K                     |           |            |      |  |
| Analyte  | Result PQL                                       | SPK value                   | SPK Ref Val   | %REC         | LowLimit  | HighLimit                       | %RPD      | RPDLimit   | Qual |  |
| Diesel Range Organics (DRO)                                    | 54 15  |                             | 0   | 108          | 64.4      | 127                             |           |            |      |  |
| Surr: DNOP   | 5.7  | 5.000                       |   | 114          | 21        | 129                             |           |            |      |  |
| Sample ID: MB-69899  | SampType: MI                                     | BLK                         | Test  | tCode: EF    | PA Method | 8015M/D: Die                    | sel Range | e Organics |      |  |
|  |  |                             |   | RunNo: 90763 |           |                                 |           |            |      |  |
| Client ID: PBS   | Batch ID: 69                                     | 899                         | R   | (unino: 90   | 0763      |                                 |           |            |      |  |
| Client ID: <b>PBS</b><br>Prep Date: <b>8/31/2022</b>           | Batch ID: 69<br>Analysis Date: 9,                |                             |   | SeqNo: 32    |           | Units: <b>mg/K</b>              | g         |            |      |  |
| _  |  | /2/2022                     |   | SeqNo: 32    |           | Units: <b>mg/K</b><br>HighLimit | g<br>%RPD | RPDLimit   | Qual |  |
| Prep Date: 8/31/2022<br>Analyte<br>Diesel Range Organics (DRO) | Analysis Date: <b>9</b> ,<br>Result PQL<br>ND 15 | <b>/2/2022</b><br>SPK value | S   | SeqNo: 32    | 246703    | •                               | •         | RPDLimit   | Qual |  |
| Prep Date: <b>8/31/2022</b><br>Analyte                         | Analysis Date: <b>9</b> ,<br>Result PQL          | <b>/2/2022</b><br>SPK value | S   | SeqNo: 32    | 246703    | •                               | •         | RPDLimit   | Qual |  |

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- P Sample pH Not In Range
- RL Reporting Limit

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2208H98

08-Sep-22

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Client:VertexProject:Laguna   | Resources S<br>Salado      | ervices,  | Inc.      |  |  |          |              |      |          |      |  |
|-------------------------------|----------------------------|-----------|-----------|--|--|----------|--------------|------|----------|------|--|
| Sample ID: Ics-69889          | D: Ics-69889 SampType: LCS |           |           |  | TestCode: EPA Method 8015D: Gasoline Range |          |              |      |          |      |  |
| Client ID: LCSS               | Batch ID: 69889            |           |           | RunNo: 90749                               |  |          |              |      |          |      |  |
| Prep Date: 8/31/2022          | Analysis Date: 9/1/2022    |           |           | SeqNo: 3243822                             |  |          | Units: mg/Kg |      |          |      |  |
| Analyte                       | Result                     | PQL       | SPK value | SPK Ref Val                                | %REC                                       | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |  |
| Gasoline Range Organics (GRO) | 26                         | 5.0       | 25.00     | 0  | 103  | 72.3     | 137          |      |          |      |  |
| Surr: BFB                     | 2100                       |           | 1000      |  | 213  | 37.7     | 212          |      |          | S    |  |
| Sample ID: mb-69889           | SampT                      | ype: ME   | BLK       | TestCode: EPA Method 8015D: Gasoline Range |  |          |              |      |          |      |  |
| Client ID: PBS                | Batch                      | n ID: 698 | 889       | F  | unNo: 90                                   | 0749     |              |      |          |      |  |
| Prep Date: 8/31/2022          | Analysis Date: 9/1/2022    |           |           | SeqNo: 3243823                             |  |          | Units: mg/Kg |      |          |      |  |
| Analyte                       | Result                     | PQL       | SPK value | SPK Ref Val                                | %REC                                       | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |  |
| Gasoline Range Organics (GRO) | ND                         | 5.0       |           |  |  |          |              |      |          |      |  |
| Surr: BFB                     | 940                        |           | 1000      |  | 94.0                                       | 37.7     | 212          |      |          |      |  |

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08-Sep-22

|                            | x Resources S<br>1a Salado | ervices,          | Inc.      |             |                 |           |                    |       |          |      |
|----------------------------|----------------------------|-------------------|-----------|-------------|-----------------|-----------|--------------------|-------|----------|------|
| Sample ID: Ics-69889       | Samp                       | Гуре: <b>LC</b>   | S         | Tes         | tCode: El       | PA Method | 8021B: Volat       | tiles |          |      |
| Client ID: LCSS            | Batc                       | h ID: 698         | 389       | F           | RunNo: 9        | 0749      |                    |       |          |      |
| Prep Date: 8/31/2022       | Analysis I                 | Date: <b>9/</b> * | 1/2022    | S           | SeqNo: 3        | 243870    | Units: mg/K        | ٢g    |          |      |
| Analyte                    | Result                     | PQL               | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD  | RPDLimit | Qual |
| Benzene                    | 0.88                       | 0.025             | 1.000     | 0           | 87.9            | 80        | 120                |       |          |      |
| Toluene                    | 0.91                       | 0.050             | 1.000     | 0           | 90.9            | 80        | 120                |       |          |      |
| Ethylbenzene               | 0.91                       | 0.050             | 1.000     | 0           | 91.0            | 80        | 120                |       |          |      |
| Xylenes, Total             | 2.7                        | 0.10              | 3.000     | 0           | 90.5            | 80        | 120                |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.90                       |                   | 1.000     |             | 90.3            | 70        | 130                |       |          |      |
| Sample ID: mb-69889        | Samp                       | Гуре: <b>МЕ</b>   | BLK       | Tes         | tCode: El       | PA Method | 8021B: Volat       | tiles |          |      |
| Client ID: PBS             | Batc                       | h ID: 698         | 389       | F           | RunNo: <b>9</b> | 0749      |                    |       |          |      |
| Prep Date: 8/31/2022       | Analysis [                 | Date: <b>9/</b> * | 1/2022    | 5           | SeqNo: 3        | 243871    | Units: <b>mg/K</b> | ίg    |          |      |
| Analyte                    | Result                     | PQL               | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD  | RPDLimit | Qual |
| Benzene                    | ND                         | 0.025             |           |             |                 |           |                    |       |          |      |
| Toluene                    | ND                         | 0.050             |           |             |                 |           |                    |       |          |      |
| Ethylbenzene               | ND                         | 0.050             |           |             |                 |           |                    |       |          |      |
| Xylenes, Total             | ND                         | 0.10              |           |             |                 |           |                    |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.89                       |                   | 1.000     |             | 89.5            | 70        | 130                |       |          |      |

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| WO#: | 2208H98 |
|------|---------|
|      |         |

08-Sep-22

| ANALYSIS  |                       | 001 Hawkins NE<br>rque, NM 87109<br>7: 505-345-4107 | Sa     | Page 254                            |
|---|-----------------------|---|--------|-------------------------------------|
| Client Name: Vertex Resources V<br>Services, Inc.                                   | Vork Order Number: 22 | 08H98   | 1      | RcptNo: 1                           |
| Received By: Juan Rojas 8/3   | 1/2022 7:40:00 AM     | 6   | Hansay | 1                                   |
|   | 1/2022 8:09:45 AM     |   |        |                                     |
| Reviewed By: KIG 8-31.  | 23                    |   |        |                                     |
| Chain of Custody  |                       |   |        |                                     |
| 1. Is Chain of Custody complete?  | Ye                    | s 🔽   | No 🗌   | Not Present                         |
| 2. How was the sample delivered?  | Co                    | urier   |        |                                     |
| Log In  |                       |   |        |                                     |
| 3. Was an attempt made to cool the samples?   | Yes                   | . 🗸   | No 🗌   | NA 🗌                                |
| 4. Were all samples received at a temperature of >0                                 | )° C to 6 0°C         |   | No 🗆   |                                     |
|   |                       |   |        |                                     |
| 5. Sample(s) in proper container(s)?  | Yes                   |   | No 🗌   |                                     |
| 6. Sufficient sample volume for indicated test(s)?                                  | Yes                   |   | No 🗌   |                                     |
| 7. Are samples (except VOA and ONG) properly pres                                   | served? Yes           |   | No 🗌   |                                     |
| 8. Was preservative added to bottles?   | Yes                   |   | No 🔽   | NA 🗌                                |
| 9. Received at least 1 vial with headspace <1/4" for A                              | AQ VOA? Yes           |   | No 🗌   |                                     |
| 10. Were any sample containers received broken?                                     | Yes                   |   | No 🔽   |                                     |
| 11  |                       | -   | -      | # of preserved<br>bottles checked   |
| 11. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody) | Yes                   |   | No 🗌   | for pH:<br>(<2 or >12 unless noted) |
| 12. Are matrices correctly identified on Chain of Custo                             | dy? Yes               | ~   | No 🗌   | Adjusted?                           |
| 13. Is it clear what analyses were requested?                                       | Yes                   |   | No 🗌   |                                     |
| 14. Were all holding times able to be met?  | Yes                   |   | No 🗌   | Checked by: 18/31/22                |
| (If no, notify customer for authorization.)   | 165                   |   |        | 5/10/5/2/2/2/                       |
| Special Handling (if applicable)  |                       |   |        |                                     |
| 15. Was client notified of all discrepancies with this or                           | der? Yes              |   | No 🗌   | NA 🗹                                |
| Person Notified:  | Date:                 |   |        |                                     |
| By Whom:  | Via: 🗌 eM             | ail 🗌 Phone   | Fax    | In Person                           |
| Regarding:  |                       |   |        |                                     |
| Client Instructions:  |                       |   |        |                                     |
| 16. Additional remarks:   |                       |   |        |                                     |
| 17. <u>Cooler Information</u><br>Cooler No Temp <sup>o</sup> C Condition Seal Int   | act Seal No Seal D    | ate Sigr  | ned By |                                     |
| 1 0.9 Good Yes  |                       |   |        |                                     |

Page 1 of 1

| Client:                       | Chain<br>Devic                  | -of-Ci                   | ustody Rec<br>nergy (ve | ord<br>v+ex) | Turn-Arou                  | und Time:<br>lard X Rusl<br>ame:<br>NA Salad | <u>h_50ay</u>   |              |               |                 |           | N.           | AL       | YS                    | 519        | 5 L        |                  | BOR   |       | TAL<br>OR |               |
|-------------------------------|---------------------------------|--------------------------|-------------------------|--------------|----------------------------|--|---|--------------|---------------|-----------------|-----------|--------------|----------|-----------------------|------------|------------|------------------|-------|-------|-----------|---------------|
| Mailing                       | Address                         | : On                     | filo                    |              | lagu                       | nasalac                                      | NO  | 17           | 49            | 01 H            | ławk      |              |          |                       |            |            |                  | M 871 | 19    |           | : 1/0/        |
|                               |                                 |                          |                         |              | Project #:                 |  |   |              |               |                 |           | 45-3         |          |                       |            | 6-12       |                  | 4107  |       |           | 202           |
| Phone                         | #:                              |                          |                         |              | rite-                      | -01927                                       |   |              |               |                 |           |              | A        | Analy                 | /sis       | Req        | uest             |       | 1     |           | 1:3           |
| email c                       | or Fax#:                        |                          |                         |              | Project M                  |  |   | ÷            | Ô             |                 |           |              |          | SO4                   |            |            | int)             | 0.11  |       |           | 1:44          |
| QA/QC                         | Package:<br>ndard               |                          | Level 4 (Full Va        | alidation)   | Yer                        | + Stalli                                     | ings to follinger   | 's (8021)    | (O / MRO)     | PCB's           |           | 8270SIMS     |          | PO4,                  |            |            | nt/Abse          |       |       |           | PM            |
| Accred                        | itation:<br>.AC                 | □ Az Co<br>□ Othe        | ompliance<br>r          | _            | Sampler:<br>On Ice:        | Fernand                                      | D Kallinger   | -            | RO / DRO      | Pesticides/8082 | 504.1)    | Ъ            | s        | 1, NO <sub>2</sub> ,  |            | (A)        | (Present/Absent) |       |       |           |               |
|                               | ) (Type)                        |                          |                         | -            | # of Coole<br>Cooler Te    |  | ()-9-0:0.9 (°C)   | MTBE         | 15D(GF        | esticide        | (Method ! | y 8310       | 8 Metals | Br, NO <sub>3</sub> , | (VOA)      | (Semi-VOA) | Coliform         |       |       |           |               |
| Date                          | Time                            | Matrix                   | Sample Name             |              | Container<br>Type and      |  | HEAL NO.<br>2208198   | BTEX/        | TPH:8015D(GRO | 8081 P          | EDB (N    | PAHs by 8310 | RCRA 8   | ©, F, E               | 8260 (V    | 8270 (S    | Total Co         |       |       |           |               |
| Bha                           | 10:30                           | Soil                     | PG22-01                 | oft          | 402 Jan                    | r ice  | 001   | V            | J             |                 |           |              |          | 1                     |            |            | 1                |       |       |           | T             |
| 1                             | 10:40                           |                          | 8672-01                 | lft          | 1                          |  | 002   | V            | J             |                 |           |              |          | J                     |            |            |                  |       |       |           |               |
|                               | 10:50                           |                          | 8622-01                 | 2Ft          |                            |  | 003   | J            | 1             |                 |           |              |          | $\mathcal{I}$         | 1          |            |                  |       |       |           |               |
|                               | 11:00                           |                          | 8522-01                 | YFT          |                            |  | 004   | 1            |               |                 |           |              |          | J,                    |            |            |                  |       |       |           | 11.1          |
|                               | 11:10                           |                          | 8672-02                 | 064          |                            |  | 005   | V            | J,            | 143             |           |              |          | J,                    |            |            |                  |       |       |           | 101           |
|                               | 11:20                           |                          | 8622-02                 | 1Ft          |                            |  | 606   | V            | 1             |                 |           |              |          | 1                     |            |            | (-1)             |       |       |           |               |
|                               | 11:30                           |                          | 8622-02                 | 294          |                            |  | 607   | V            | J             |                 |           | 12           |          | 5                     |            |            |                  |       |       |           |               |
|                               | 11:40                           |                          | 8622-03                 | OFT          |                            |  | 008   | $\checkmark$ |               |                 | ()        |              |          | V                     |            |            |                  |       |       |           |               |
| 1                             | 11:50                           | 1                        | 8572-03                 | IFT          | ١.                         | 1  | 009   |              |               |                 |           |              | _        |                       |            |            |                  |       |       |           |               |
|                               |                                 |                          |                         |              |                            |  |   |              |               |                 |           |              |          |                       |            |            |                  |       |       |           |               |
| Data                          | Times                           | Dellassi                 |                         |              | Developed                  |  |   |              | 1.11          |                 |           |              |          | 2                     |            |            |                  |       |       |           | 1             |
| Date:<br>8ha<br>Date:<br>30 A | Time:<br>V1:30<br>Time:<br>1900 | Relinquish<br>Relinquish |                         | 2            | Received by<br>Received by | un   | Date Time<br><u>30</u> 12 945<br>Date Time<br>- \$131 22 7'46 | łt           | lark:         | s:<br>Ker       | Ate       | ste          | Alt      | ine                   | <u>1</u> 5 | t          | Me               | vic   | or Po | sbbi      | s lo cc7 agad |



April 25, 2023

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX:

RE: Laguna Salado 5

OrderNo.: 2304663

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 26 sample(s) on 4/15/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-01 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:00:00 AM Lab ID: 2304663-001 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 4/19/2023 1:27:09 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 4/19/2023 1:27:09 AM Surr: DNOP 130 69-147 %Rec 1 4/19/2023 1:27:09 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 1:53:00 AM 4.8 mg/Kg 1 Surr: BFB 90.0 37.7-212 %Rec 1 4/19/2023 1:53:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 1:53:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 4/19/2023 1:53:00 AM Ethylbenzene ND 0.048 mg/Kg 1 4/19/2023 1:53:00 AM Xylenes, Total ND 0.096 mg/Kg 1 4/19/2023 1:53:00 AM Surr: 4-Bromofluorobenzene 84.6 70-130 %Rec 1 4/19/2023 1:53:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 4/20/2023 8:41:58 AM 5200 300 100

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 1 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-02 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:05:00 AM Lab ID: 2304663-002 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 9.7 mg/Kg 1 4/19/2023 1:37:54 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/19/2023 1:37:54 AM Surr: DNOP 87.4 69-147 %Rec 1 4/19/2023 1:37:54 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 2:15:00 AM 4.8 mg/Kg 1 Surr: BFB 88.9 37.7-212 %Rec 1 4/19/2023 2:15:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 2:15:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 4/19/2023 2:15:00 AM Ethylbenzene ND 0.048 mg/Kg 1 4/19/2023 2:15:00 AM Xylenes, Total ND 0.095 mg/Kg 4/19/2023 2:15:00 AM 1 Surr: 4-Bromofluorobenzene 86.4 70-130 %Rec 1 4/19/2023 2:15:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 7600 6000 2000 4/20/2023 8:54:23 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 2 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-03 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:10:00 AM Lab ID: 2304663-003 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH **Diesel Range Organics (DRO)** ND 9.3 mg/Kg 1 4/19/2023 1:48:38 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 4/19/2023 1:48:38 AM Surr: DNOP 85.0 69-147 %Rec 1 4/19/2023 1:48:38 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 2:36:00 AM 4.9 mg/Kg 1 Surr: BFB 94.9 37.7-212 %Rec 1 4/19/2023 2:36:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 2:36:00 AM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/19/2023 2:36:00 AM Ethylbenzene ND 0.049 mg/Kg 1 4/19/2023 2:36:00 AM Xylenes, Total ND 0.097 mg/Kg 4/19/2023 2:36:00 AM 1 Surr: 4-Bromofluorobenzene 85.4 70-130 %Rec 1 4/19/2023 2:36:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 4/20/2023 9:06:47 AM 31000 1500 500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 3 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-04 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:15:00 AM Lab ID: 2304663-004 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH **Diesel Range Organics (DRO)** ND 9.0 mg/Kg 1 4/19/2023 2:09:58 AM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 4/19/2023 2:09:58 AM Surr: DNOP 86.7 69-147 %Rec 1 4/19/2023 2:09:58 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 2:58:00 AM 4.6 mg/Kg 1 Surr: BFB 89.4 37.7-212 %Rec 1 4/19/2023 2:58:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 2:58:00 AM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 4/19/2023 2:58:00 AM Ethylbenzene ND 0.046 mg/Kg 1 4/19/2023 2:58:00 AM Xylenes, Total ND 0.093 mg/Kg 1 4/19/2023 2:58:00 AM Surr: 4-Bromofluorobenzene 84.9 70-130 %Rec 1 4/19/2023 2:58:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 140000 15000 5000 4/20/2023 9:19:12 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 4 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-05 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:20:00 AM Lab ID: 2304663-005 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH **Diesel Range Organics (DRO)** ND 9.5 mg/Kg 1 4/19/2023 2:20:55 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/19/2023 2:20:55 AM Surr: DNOP 87.0 69-147 %Rec 1 4/19/2023 2:20:55 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 3:41:00 AM 4.8 mg/Kg 1 Surr: BFB 87.2 37.7-212 %Rec 1 4/19/2023 3:41:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 3:41:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 4/19/2023 3:41:00 AM Ethylbenzene ND 0.048 mg/Kg 1 4/19/2023 3:41:00 AM Xylenes, Total ND 0.097 mg/Kg 1 4/19/2023 3:41:00 AM Surr: 4-Bromofluorobenzene 83.9 70-130 %Rec 1 4/19/2023 3:41:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 48000 3000 1000 4/20/2023 9:31:37 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 5 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-06 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:25:00 AM Lab ID: 2304663-006 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH **Diesel Range Organics (DRO)** ND 10 mg/Kg 1 4/19/2023 2:31:50 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/19/2023 2:31:50 AM Surr: DNOP 69-147 %Rec 1 4/19/2023 2:31:50 AM 111 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 4:03:00 AM 4.9 mg/Kg 1 Surr: BFB 84.9 37.7-212 %Rec 1 4/19/2023 4:03:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 4:03:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/19/2023 4:03:00 AM Ethylbenzene ND 0.049 mg/Kg 1 4/19/2023 4:03:00 AM Xylenes, Total ND 0.099 mg/Kg 1 4/19/2023 4:03:00 AM Surr: 4-Bromofluorobenzene 82.8 70-130 %Rec 1 4/19/2023 4:03:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 15000 600 200 4/20/2023 9:44:01 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 6 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-07 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:30:00 AM Lab ID: 2304663-007 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH **Diesel Range Organics (DRO)** ND 9.4 mg/Kg 1 4/19/2023 2:42:43 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 4/19/2023 2:42:43 AM Surr: DNOP 77.1 69-147 %Rec 1 4/19/2023 2:42:43 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 4/19/2023 4:24:00 AM mg/Kg 1 Surr: BFB 89.3 37.7-212 %Rec 1 4/19/2023 4:24:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 4:24:00 AM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 4/19/2023 4:24:00 AM Ethylbenzene ND 0.047 mg/Kg 1 4/19/2023 4:24:00 AM Xylenes, Total ND 0.094 mg/Kg 4/19/2023 4:24:00 AM 1 Surr: 4-Bromofluorobenzene 84.8 70-130 %Rec 1 4/19/2023 4:24:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 4100 150 50 4/20/2023 9:56:25 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 7 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-08 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:35:00 AM Lab ID: 2304663-008 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH **Diesel Range Organics (DRO)** 43 9.6 mg/Kg 1 4/19/2023 2:53:34 AM Motor Oil Range Organics (MRO) 53 48 mg/Kg 1 4/19/2023 2:53:34 AM Surr: DNOP 97.1 69-147 %Rec 1 4/19/2023 2:53:34 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 4:46:00 AM 5.0 mg/Kg 1 Surr: BFB 89.6 37.7-212 %Rec 1 4/19/2023 4:46:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 4:46:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 4/19/2023 4:46:00 AM Ethylbenzene ND 0.050 mg/Kg 1 4/19/2023 4:46:00 AM Xylenes, Total ND mg/Kg 1 4/19/2023 4:46:00 AM 0.099 Surr: 4-Bromofluorobenzene 85.6 70-130 %Rec 1 4/19/2023 4:46:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 4/20/2023 10:08:50 AM 61000 6000 2000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 8 of 33

Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-09 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:40:00 AM Lab ID: 2304663-009 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH **Diesel Range Organics (DRO)** ND 9.1 mg/Kg 1 4/19/2023 3:14:57 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 4/19/2023 3:14:57 AM Surr: DNOP 95.9 69-147 %Rec 1 4/19/2023 3:14:57 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 5:08:00 AM 5.0 mg/Kg 1 Surr: BFB 93.5 37.7-212 %Rec 1 4/19/2023 5:08:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 5:08:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 4/19/2023 5:08:00 AM Ethylbenzene ND 0.050 mg/Kg 1 4/19/2023 5:08:00 AM Xylenes, Total ND mg/Kg 1 4/19/2023 5:08:00 AM 0.10 Surr: 4-Bromofluorobenzene 86.7 70-130 %Rec 1 4/19/2023 5:08:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 4/20/2023 10:21:15 AM 99000 5900 2000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 9 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-10 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:45:00 AM Lab ID: 2304663-010 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH **Diesel Range Organics (DRO)** ND 10 mg/Kg 1 4/19/2023 3:25:46 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/19/2023 3:25:46 AM Surr: DNOP 99.8 69-147 %Rec 1 4/19/2023 3:25:46 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 5:29:00 AM 4.8 mg/Kg 1 Surr: BFB 89.4 37.7-212 %Rec 1 4/19/2023 5:29:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 5:29:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 4/19/2023 5:29:00 AM Ethylbenzene ND 0.048 mg/Kg 1 4/19/2023 5:29:00 AM Xylenes, Total ND 0.096 mg/Kg 4/19/2023 5:29:00 AM 1 Surr: 4-Bromofluorobenzene 85.3 70-130 %Rec 1 4/19/2023 5:29:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 4/20/2023 10:58:28 AM 110000 15000 5000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 10 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-11 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:50:00 AM Lab ID: 2304663-011 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH **Diesel Range Organics (DRO)** ND 9.5 mg/Kg 1 4/19/2023 3:36:34 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 4/19/2023 3:36:34 AM Surr: DNOP 95.0 69-147 %Rec 1 4/19/2023 3:36:34 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 5:51:00 AM 4.8 mg/Kg 1 Surr: BFB 87.6 37.7-212 %Rec 1 4/19/2023 5:51:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 5:51:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 4/19/2023 5:51:00 AM Ethylbenzene ND 0.048 mg/Kg 1 4/19/2023 5:51:00 AM Xylenes, Total ND 0.097 mg/Kg 4/19/2023 5:51:00 AM 1 Surr: 4-Bromofluorobenzene 83.8 70-130 %Rec 1 4/19/2023 5:51:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 4/20/2023 11:10:52 AM 16000 600 200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 11 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-12 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 9:55:00 AM Lab ID: 2304663-012 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH **Diesel Range Organics (DRO)** ND 9.2 mg/Kg 1 4/19/2023 3:47:21 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 4/19/2023 3:47:21 AM Surr: DNOP 91.9 69-147 %Rec 1 4/19/2023 3:47:21 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/19/2023 6:12:00 AM 4.9 mg/Kg 1 Surr: BFB 91.7 37.7-212 %Rec 1 4/19/2023 6:12:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/19/2023 6:12:00 AM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/19/2023 6:12:00 AM Ethylbenzene ND 0.049 mg/Kg 1 4/19/2023 6:12:00 AM Xylenes, Total ND 0.098 mg/Kg 4/19/2023 6:12:00 AM 1 Surr: 4-Bromofluorobenzene 87.1 70-130 %Rec 1 4/19/2023 6:12:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 4/21/2023 10:55:52 AM 2600 150 50

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 12 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-13 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:00:00 AM Lab ID: 2304663-013 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 9.7 mg/Kg 1 4/19/2023 5:06:51 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/19/2023 5:06:51 PM Surr: DNOP 93.1 69-147 %Rec 1 4/19/2023 5:06:51 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 4/19/2023 12:01:53 AM mg/Kg 1 Surr: BFB 91.8 37.7-212 %Rec 1 4/19/2023 12:01:53 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 12:01:53 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 4/19/2023 12:01:53 AM Ethylbenzene ND 0.047 mg/Kg 1 4/19/2023 12:01:53 AM Xylenes, Total ND 0.094 mg/Kg 4/19/2023 12:01:53 AM 1 Surr: 4-Bromofluorobenzene 92.9 70-130 %Rec 1 4/19/2023 12:01:53 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 4/21/2023 11:08:16 AM 33000 1500 500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 13 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-14 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:05:00 AM Lab ID: 2304663-014 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD **Diesel Range Organics (DRO)** ND 10 mg/Kg 1 4/19/2023 5:17:30 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/19/2023 5:17:30 PM Surr: DNOP 91.8 69-147 %Rec 1 4/19/2023 5:17:30 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/19/2023 1:12:08 AM 4.9 mg/Kg 1 Surr: BFB 105 37.7-212 %Rec 1 4/19/2023 1:12:08 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 1:12:08 AM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/19/2023 1:12:08 AM Ethylbenzene ND 0.049 mg/Kg 1 4/19/2023 1:12:08 AM Xylenes, Total ND 0.098 mg/Kg 4/19/2023 1:12:08 AM 1 Surr: 4-Bromofluorobenzene 96.4 70-130 %Rec 1 4/19/2023 1:12:08 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 4/21/2023 11:20:40 AM 35000 1500 500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-15 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:10:00 AM Lab ID: 2304663-015 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 9.8 mg/Kg 1 4/19/2023 5:28:12 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/19/2023 5:28:12 PM Surr: DNOP 92.4 69-147 %Rec 1 4/19/2023 5:28:12 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/19/2023 2:22:04 AM 4.8 mg/Kg 1 Surr: BFB 93.6 37.7-212 %Rec 1 4/19/2023 2:22:04 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 2:22:04 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 4/19/2023 2:22:04 AM Ethylbenzene ND 0.048 mg/Kg 1 4/19/2023 2:22:04 AM Xylenes, Total ND 0.097 mg/Kg 4/19/2023 2:22:04 AM 1 Surr: 4-Bromofluorobenzene 94.0 70-130 %Rec 1 4/19/2023 2:22:04 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 4/21/2023 11:33:05 AM 17000 600 200

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 15 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-16 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:15:00 AM Lab ID: 2304663-016 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD **Diesel Range Organics (DRO)** ND 10 mg/Kg 1 4/19/2023 5:38:52 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/19/2023 5:38:52 PM Surr: DNOP 88.2 69-147 %Rec 1 4/19/2023 5:38:52 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/19/2023 2:45:26 AM 4.9 mg/Kg 1 Surr: BFB 108 37.7-212 %Rec 1 4/19/2023 2:45:26 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 2:45:26 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/19/2023 2:45:26 AM Ethylbenzene ND 0.049 mg/Kg 1 4/19/2023 2:45:26 AM Xylenes, Total ND 0.098 mg/Kg 4/19/2023 2:45:26 AM 1 Surr: 4-Bromofluorobenzene 97.1 70-130 %Rec 1 4/19/2023 2:45:26 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 4/21/2023 12:10:18 PM 5200 300 100

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 16 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-17 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:20:00 AM Lab ID: 2304663-017 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD **Diesel Range Organics (DRO)** ND 9.9 mg/Kg 1 4/19/2023 5:49:38 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/19/2023 5:49:38 PM Surr: DNOP 86.2 69-147 %Rec 1 4/19/2023 5:49:38 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/19/2023 3:08:52 AM 4.8 mg/Kg 1 Surr: BFB 99.4 37.7-212 %Rec 1 4/19/2023 3:08:52 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 3:08:52 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 4/19/2023 3:08:52 AM Ethylbenzene ND 0.048 mg/Kg 1 4/19/2023 3:08:52 AM Xylenes, Total ND 0.096 mg/Kg 4/19/2023 3:08:52 AM 1 Surr: 4-Bromofluorobenzene 95.4 70-130 %Rec 1 4/19/2023 3:08:52 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 4/19/2023 4:32:40 PM 530 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 17 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-18 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:25:00 AM Lab ID: 2304663-018 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 9.5 mg/Kg 1 4/19/2023 6:00:27 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/19/2023 6:00:27 PM Surr: DNOP 95.3 69-147 %Rec 1 4/19/2023 6:00:27 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/19/2023 3:32:24 AM 4.9 mg/Kg 1 Surr: BFB 94.1 37.7-212 %Rec 1 4/19/2023 3:32:24 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 3:32:24 AM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/19/2023 3:32:24 AM Ethylbenzene ND 0.049 mg/Kg 1 4/19/2023 3:32:24 AM Xylenes, Total ND 0.097 mg/Kg 4/19/2023 3:32:24 AM 1 Surr: 4-Bromofluorobenzene 94.5 70-130 %Rec 1 4/19/2023 3:32:24 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 4/21/2023 12:22:43 PM 43000 1500 500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 18 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-19 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:30:00 AM Lab ID: 2304663-019 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 9.4 mg/Kg 1 4/19/2023 6:11:16 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 4/19/2023 6:11:16 PM Surr: DNOP 92.8 69-147 %Rec 1 4/19/2023 6:11:16 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/20/2023 12:41:46 AM 5.0 mg/Kg 1 Surr: BFB 83.0 37.7-212 %Rec 1 4/20/2023 12:41:46 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/20/2023 12:41:46 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 4/20/2023 12:41:46 AM Ethylbenzene ND 0.050 mg/Kg 1 4/20/2023 12:41:46 AM Xylenes, Total ND mg/Kg 1 4/20/2023 12:41:46 AM 0.10 Surr: 4-Bromofluorobenzene 92.2 70-130 %Rec 1 4/20/2023 12:41:46 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 4/21/2023 12:35:08 PM 59000 3000 1000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-20 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:35:00 AM Lab ID: 2304663-020 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD **Diesel Range Organics (DRO)** ND 9.2 mg/Kg 1 4/19/2023 6:22:08 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 4/19/2023 6:22:08 PM Surr: DNOP 87.8 69-147 %Rec 1 4/19/2023 6:22:08 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/20/2023 1:05:11 AM 4.9 mg/Kg 1 Surr: BFB 98.1 37.7-212 %Rec 1 4/20/2023 1:05:11 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/20/2023 1:05:11 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/20/2023 1:05:11 AM Ethylbenzene ND 0.049 mg/Kg 1 4/20/2023 1:05:11 AM Xylenes, Total ND 0.098 mg/Kg 4/20/2023 1:05:11 AM 1 Surr: 4-Bromofluorobenzene 95.4 70-130 %Rec 1 4/20/2023 1:05:11 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 4/21/2023 12:47:32 PM 33000 1500 500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 20 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-21 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:40:00 AM Lab ID: 2304663-021 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 9.7 mg/Kg 1 4/19/2023 6:33:00 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/19/2023 6:33:00 PM Surr: DNOP 77.8 69-147 %Rec 1 4/19/2023 6:33:00 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 4/19/2023 4:42:51 AM mg/Kg 1 Surr: BFB 97.2 37.7-212 %Rec 1 4/19/2023 4:42:51 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 4:42:51 AM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 4/19/2023 4:42:51 AM Ethylbenzene ND 0.047 mg/Kg 1 4/19/2023 4:42:51 AM Xylenes, Total ND 0.094 mg/Kg 4/19/2023 4:42:51 AM 1 Surr: 4-Bromofluorobenzene 94.3 70-130 %Rec 1 4/19/2023 4:42:51 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 4/21/2023 12:59:57 PM 2500 150 50

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceed

H Holding times for preparation or analysis exceeded

 ND
 Not Detected at the Reporting Limit

 PQL
 Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-22 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:45:00 AM Lab ID: 2304663-022 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 9.7 mg/Kg 1 4/19/2023 6:43:52 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/19/2023 6:43:52 PM Surr: DNOP 79.3 69-147 %Rec 1 4/19/2023 6:43:52 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/19/2023 5:06:08 AM 4.8 mg/Kg 1 Surr: BFB 103 37.7-212 %Rec 1 4/19/2023 5:06:08 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 5:06:08 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 4/19/2023 5:06:08 AM Ethylbenzene ND 0.048 mg/Kg 1 4/19/2023 5:06:08 AM Xylenes, Total ND 0.095 mg/Kg 4/19/2023 5:06:08 AM 1 Surr: 4-Bromofluorobenzene 96.5 70-130 %Rec 1 4/19/2023 5:06:08 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 4/19/2023 5:34:43 PM 72 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 22 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-23 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:50:00 AM Lab ID: 2304663-023 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD **Diesel Range Organics (DRO)** ND 9.6 mg/Kg 1 4/19/2023 7:05:38 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/19/2023 7:05:38 PM Surr: DNOP 91.6 69-147 %Rec 1 4/19/2023 7:05:38 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 4/19/2023 5:53:17 AM mg/Kg 1 Surr: BFB 91.1 37.7-212 %Rec 1 4/19/2023 5:53:17 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 5:53:17 AM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 4/19/2023 5:53:17 AM Ethylbenzene ND 0.047 mg/Kg 1 4/19/2023 5:53:17 AM Xylenes, Total ND 0.094 mg/Kg 4/19/2023 5:53:17 AM 1 Surr: 4-Bromofluorobenzene 93.0 70-130 %Rec 1 4/19/2023 5:53:17 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 4/21/2023 1:12:22 PM 3700 150 50

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

NDNot Detected at the Reporting IPQLPractical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Released to Imaging: 4/17/2025 1:37:41 PM

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-24 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 10:55:00 AM Lab ID: 2304663-024 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD **Diesel Range Organics (DRO)** ND 9.4 mg/Kg 1 4/19/2023 7:16:38 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 4/19/2023 7:16:38 PM Surr: DNOP 86.5 69-147 %Rec 1 4/19/2023 7:16:38 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/19/2023 6:16:46 AM 4.9 mg/Kg 1 Surr: BFB 89.6 37.7-212 %Rec 1 4/19/2023 6:16:46 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 6:16:46 AM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/19/2023 6:16:46 AM Ethylbenzene ND 0.049 mg/Kg 1 4/19/2023 6:16:46 AM Xylenes, Total ND 0.098 mg/Kg 4/19/2023 6:16:46 AM 1 Surr: 4-Bromofluorobenzene 92.2 70-130 %Rec 1 4/19/2023 6:16:46 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 4/21/2023 1:24:47 PM 42000 1500 500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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Released to Imaging: 4/17/2025 1:37:41 PM

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-25 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 11:00:00 AM Lab ID: 2304663-025 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD **Diesel Range Organics (DRO)** ND 9.8 mg/Kg 1 4/19/2023 7:27:38 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/19/2023 7:27:38 PM Surr: DNOP 98.6 69-147 %Rec 1 4/19/2023 7:27:38 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/19/2023 6:40:10 AM 4.9 mg/Kg 1 Surr: BFB 108 37.7-212 %Rec 1 4/19/2023 6:40:10 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 6:40:10 AM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/19/2023 6:40:10 AM Ethylbenzene ND 0.049 mg/Kg 1 4/19/2023 6:40:10 AM Xylenes, Total ND 0.097 mg/Kg 4/19/2023 6:40:10 AM 1 Surr: 4-Bromofluorobenzene 97.1 70-130 %Rec 1 4/19/2023 6:40:10 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 4/19/2023 6:36:45 PM 1700 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 25 of 33

Date Reported: 4/25/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-26 0' **Project:** Laguna Salado 5 Collection Date: 4/13/2023 11:05:00 AM Lab ID: 2304663-026 Matrix: SOIL Received Date: 4/15/2023 8:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD **Diesel Range Organics (DRO)** ND 10 mg/Kg 1 4/19/2023 7:38:36 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/19/2023 7:38:36 PM Surr: DNOP 81.8 69-147 %Rec 1 4/19/2023 7:38:36 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/19/2023 7:03:31 AM 4.9 mg/Kg 1 Surr: BFB 111 37.7-212 %Rec 1 4/19/2023 7:03:31 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 4/19/2023 7:03:31 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/19/2023 7:03:31 AM Ethylbenzene ND 0.049 mg/Kg 1 4/19/2023 7:03:31 AM Xylenes, Total ND 0.098 mg/Kg 4/19/2023 7:03:31 AM 1 Surr: 4-Bromofluorobenzene 97.6 70-130 %Rec 1 4/19/2023 7:03:31 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 4/19/2023 6:49:10 PM ND 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 26 of 33

| Client:<br>Project: |           | ex Resources Se<br>na Salado 5 | rvices,          | Inc.      |                  |                  |          |               |      |          |      |
|---------------------|-----------|--------------------------------|------------------|-----------|------------------|------------------|----------|---------------|------|----------|------|
| Sample ID:          | MB-74420  | SampT                          | /pe: <b>ME</b>   | LK        | Tes              | stCode: EF       | A Method | 300.0: Anions | 5    |          |      |
| Client ID:          | PBS       | Batch                          | 20               | F         | RunNo: <b>96</b> | 6171             |          |               |      |          |      |
| Prep Date:          | 4/19/2023 | Analysis Da                    | ate: <b>4/</b> * | 19/2023   | S                | SeqNo: 34        | 182481   | Units: mg/K   | g    |          |      |
| Analyte             |           | Result                         | PQL              | SPK value | SPK Ref Val      | %REC             | LowLimit | HighLimit     | %RPD | RPDLimit | Qual |
| Chloride            |           | ND                             | 1.5              |           |                  |                  |          |               |      |          |      |
| Sample ID:          | LCS-74420 | SampT                          | /pe: LC          | s         | Tes              | tCode: EF        | A Method | 300.0: Anions | 5    |          |      |
| Client ID:          | LCSS      | Batch                          | ID: 744          | 20        | F                | RunNo: <b>96</b> | 6171     |               |      |          |      |
| Prep Date:          | 4/19/2023 | Analysis Da                    | ate: <b>4/</b> ′ | 19/2023   | 5                | SeqNo: 34        | 182482   | Units: mg/K   | g    |          |      |
| Analyte             |           | Result                         | PQL              | SPK value | SPK Ref Val      | %REC             | LowLimit | HighLimit     | %RPD | RPDLimit | Qual |
| Chloride            |           | 14                             | 1.5              | 15.00     | 0                | 94.2             | 90       | 110           |      |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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|   | Resources Services, Inc.                                |  |
|---|---|--|
| Project: Laguna S   | Salado 3  |  |
| Sample ID: LCS-74375  | SampType: LCS   | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS   | Batch ID: 74375   | RunNo: 96131   |
| Prep Date: 4/17/2023  | Analysis Date: 4/18/2023                                | SeqNo: 3481381 Units: mg/Kg                            |
| Analyte   | Result PQL SPK value                                    | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP                                   | 41         10         50.00           4.3         5.000 | 0 81.9 61.9 130<br>85.4 69 147                         |
| Sample ID: LCS-74395  | SampType: LCS   | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS   | Batch ID: 74395   | RunNo: 96131   |
| Prep Date: 4/18/2023  | Analysis Date: 4/19/2023                                | SeqNo: 3481382 Units: %Rec                             |
| Analyte   | Result PQL SPK value                                    | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP  | 4.3 5.000   | 86.1 69 147  |
| Sample ID: MB-74375   | SampType: MBLK  | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS  | Batch ID: 74375   | RunNo: 96131   |
| Prep Date: 4/17/2023  | Analysis Date: 4/18/2023                                | SeqNo: 3481385 Units: mg/Kg                            |
| Analyte   | Result PQL SPK value                                    | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)<br>Motor Oil Range Organics (MRO)<br>Surr: DNOP | ND 10<br>ND 50<br>8.7 10.00                             | 86.6 69 147  |
| Sample ID: MB-74395   | SampType: <b>MBLK</b>                                   | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS  | Batch ID: <b>74395</b>                                  | RunNo: 96131   |
| Prep Date: 4/18/2023  | Analysis Date: 4/19/2023                                | SeqNo: 3481386 Units: %Rec                             |
| Analyte   |   | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP  | 8.8 10.00   | 87.7 69 147  |
| Sample ID: MB-74381   | SampType: MBLK  | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS  | Batch ID: 74381   | RunNo: <b>96159</b>                                    |
| Prep Date: 4/18/2023  | Analysis Date: 4/19/2023                                | SeqNo: 3481897 Units: mg/Kg                            |
| Analyte   | Result PQL SPK value                                    | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)   | ND 10   | ~  |
| Motor Oil Range Organics (MRO)<br>Surr: DNOP                                | ND 50<br>8.8 10.00                                      | 87.7 69 147  |
| Sample ID: LCS-74381  | SampType: LCS   | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS   | Batch ID: 74381   | RunNo: <b>96159</b>                                    |
| Prep Date: 4/18/2023  | Analysis Date: 4/19/2023                                | SeqNo: 3481900 Units: mg/Kg                            |
| Analyte   | Result PQL SPK value                                    | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |

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- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- Р Reporting Limit RL

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| Client:<br>Project: | Vertex Re<br>Laguna Sa |            | ervices,         | Inc.      |             |                  |           |              |           |          |      |
|---------------------|------------------------|------------|------------------|-----------|-------------|------------------|-----------|--------------|-----------|----------|------|
| i i ojeci.          | Laguna 50              | iiado 5    |                  |           |             |                  |           |              |           |          |      |
| Sample ID:          | LCS-74381              | SampT      | ype: LC          | S         | Tes         | tCode: EF        | PA Method | 8015M/D: Die | sel Range | Organics |      |
| Client ID:          | LCSS                   | Batch      | ID: 743          | 381       | F           | RunNo: <b>96</b> | 6159      |              |           |          |      |
| Prep Date:          | 4/18/2023              | Analysis D | ate: <b>4/</b> ' | 19/2023   | S           | SeqNo: 34        | 181900    | Units: mg/K  | g         |          |      |
| Analyte             |                        | Result     | PQL              | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual |
| Diesel Range (      | Organics (DRO)         | 37         | 10               | 50.00     | 0           | 73.3             | 61.9      | 130          |           |          |      |
| Surr: DNOP          |                        | 4.1        |                  | 5.000     |             | 82.7             | 69        | 147          |           |          |      |
| Sample ID:          | 2304663-013AMS         | SampT      | ype: MS          | 5         | Tes         | tCode: EF        | PA Method | 8015M/D: Die | sel Range | Organics |      |
| Client ID:          | SS23-13 0'             | Batch      | ID: 743          | 381       | F           | RunNo: <b>96</b> | 6159      |              |           |          |      |
| Prep Date:          | 4/18/2023              | Analysis D | ate: 4/2         | 20/2023   | S           | SeqNo: 34        | 181911    | Units: mg/K  | g         |          |      |
| Analyte             |                        | Result     | PQL              | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual |
| Diesel Range (      | Organics (DRO)         | 38         | 9.2              | 46.17     | 0           | 83.1             | 54.2      | 135          |           |          |      |
| Surr: DNOP          |                        | 4.2        |                  | 4.617     |             | 91.2             | 69        | 147          |           |          |      |
| Sample ID:          | 2304663-013AMSD        | SampT      | ype: MS          | D         | Tes         | tCode: EF        | PA Method | 8015M/D: Die | sel Range | Organics |      |
| Client ID:          | SS23-13 0'             | Batch      | ID: 743          | 381       | F           | RunNo: <b>96</b> | 6159      |              |           |          |      |
| Prep Date:          | 4/18/2023              | Analysis D | ate: 4/2         | 20/2023   | S           | SeqNo: 34        | 181912    | Units: mg/K  | g         |          |      |
| Analyte             |                        | Result     | PQL              | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit    | %RPD      | RPDLimit | Qual |
| Diesel Range (      | Drganics (DRO)         | 39         | 9.3              | 46.69     | 0           | 83.3             | 54.2      | 135          | 1.33      | 29.2     |      |
| Surr: DNOP          |                        | 4.2        |                  | 4.669     |             | 89.4             | 69        | 147          | 0         | 0        |      |

Qualifiers:

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- RL Reporting Limit

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| Client:Vertex ReProject:Laguna Sa                   | esources Services, In<br>alado 5 | с.            |              |                        |            |                             |           |          |      |  |  |
|---|----------------------------------|---------------|--------------|------------------------|------------|-----------------------------|-----------|----------|------|--|--|
| Sample ID: Ics-74370                                | SampType: LCS                    |               | Tes          | tCode: EP              | A Method   | 8015D: Gasol                | ine Range |          |      |  |  |
| Client ID: LCSS                                     | Batch ID: 74370                  |               | RunNo: 96093 |                        |            |                             |           |          |      |  |  |
| Prep Date: 4/17/2023                                | Analysis Date: 4/18/2            | 2023          | S            | SeqNo: 34              | 81111      | Units: mg/K                 | g         |          |      |  |  |
| Analyte   | Result PQL S                     | PK value      | SPK Ref Val  | %REC                   | LowLimit   | HighLimit                   | %RPD      | RPDLimit | Qual |  |  |
| Gasoline Range Organics (GRO)<br>Surr: BFB          | 21 5.0<br>2000                   | 25.00<br>1000 | 0            | 85.0<br>196            | 70<br>37.7 | 130<br>212                  |           |          |      |  |  |
| Sample ID: mb-74370                                 | SampType: MBLK                   | Σ.            | Tes          | tCode: EP              | A Method   | 8015D: Gasol                | ine Range |          |      |  |  |
| Client ID: PBS                                      | Batch ID: 74370                  |               | R            | RunNo: <b>96</b>       | 6093       |                             |           |          |      |  |  |
| Prep Date: 4/17/2023                                | Analysis Date: 4/18/2            | 2023          | S            | SeqNo: 34              | 81112      | Units: mg/K                 | g         |          |      |  |  |
| Analyte   | Result PQL S                     | PK value      | SPK Ref Val  | %REC                   | LowLimit   | HighLimit                   | %RPD      | RPDLimit | Qual |  |  |
| Gasoline Range Organics (GRO)<br>Surr: BFB          | ND 5.0<br>890                    | 1000          |              | 89.1                   | 37.7       | 212                         |           |          |      |  |  |
| Sample ID: Ics-74376                                | SampType: LCS                    |               | Tes          | tCode: EP              | A Method   | 8015D: Gasol                | ine Range |          |      |  |  |
| Client ID: LCSS                                     | Batch ID: 74376                  |               | R            | RunNo: <b>96</b>       | 6123       |                             |           |          |      |  |  |
| Prep Date: 4/17/2023                                | Analysis Date: 4/18/2            | 2023          | S            | SeqNo: 34              | 81407      | Units: mg/K                 | g         |          |      |  |  |
| Analyte   | Result PQL S                     | PK value      | SPK Ref Val  | %REC                   | LowLimit   | HighLimit                   | %RPD      | RPDLimit | Qual |  |  |
| Gasoline Range Organics (GRO)                       | 23 5.0                           | 25.00         | 0            | 92.0                   | 70         | 130                         |           |          |      |  |  |
| Surr: BFB   | 5100                             | 1000          |              | 509                    | 37.7       | 212                         |           |          | S    |  |  |
| Sample ID: mb-74376                                 | SampType: MBLK                   | ζ.            | Tes          | tCode: EP              | PA Method  | 8015D: Gasol                | ine Range |          |      |  |  |
| Client ID: PBS                                      | Batch ID: 74376                  |               | R            | RunNo: <b>96</b>       | 6123       |                             |           |          |      |  |  |
| Prep Date: 4/17/2023                                | Analysis Date: 4/18/2            | 2023          | S            | SeqNo: 34              | 81408      | Units: mg/K                 | g         |          |      |  |  |
| Analyte   | Result PQL S                     | PK value      | SPK Ref Val  | %REC                   | LowLimit   | HighLimit                   | %RPD      | RPDLimit | Qual |  |  |
| Gasoline Range Organics (GRO)<br>Surr: BFB          | ND 5.0<br>960                    | 1000          |              | 96.1                   | 37.7       | 212                         |           |          |      |  |  |
| Sample ID: 2304663-013ams                           | SampType: MS                     |               | Tes          | tCode: EP              | A Method   | 8015D: Gasol                | ine Range |          |      |  |  |
| Client ID: \$\$23-13 0'                             | Batch ID: 74376                  |               | R            | RunNo: <b>96</b>       | 6123       |                             |           |          |      |  |  |
| Prep Date: 4/17/2023                                | Analysis Date: 4/19/2            | 2023          | S            | SeqNo: 34              | 81412      | Units: mg/K                 | g         |          |      |  |  |
| Analyte   | Result PQL S                     | PK value      | SPK Ref Val  | %REC                   | LowLimit   | HighLimit                   | %RPD      | RPDLimit | Qual |  |  |
| Gasoline Range Organics (GRO)                       | 20 4.7                           | 23.63         | 0            | 85.9                   | 70         | 130                         |           |          |      |  |  |
| Surr: BFB   | 4600                             | 945.2         |              | 488                    | 37.7       | 212                         |           |          | S    |  |  |
|   |                                  |               |              |                        |            |                             |           |          |      |  |  |
| Sample ID: 2304663-013amsd                          | SampType: MSD                    |               | Tes          | tCode: EP              | A Method   | 8015D: Gasol                | ine Range |          |      |  |  |
| Sample ID: 2304663-013amsd<br>Client ID: SS23-13 0' | SampType: MSD<br>Batch ID: 74376 |               |              | tCode: EP<br>RunNo: 96 |            | 8015D: Gasol                | ine Range |          |      |  |  |
|   | 1 21                             |               | R            |                        | 6123       | 8015D: Gasol<br>Units: mg/K | -         |          |      |  |  |

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
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- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

2304663

25-Apr-23

| Client:<br>Project: | Vertex Re<br>Laguna Sa |            |                |                  |             |           |          |             |           |          |      |
|---------------------|------------------------|------------|----------------|------------------|-------------|-----------|----------|-------------|-----------|----------|------|
| Sample ID:          | 2304663-013amsd        | SampT      | уре: <b>МS</b> | D                | Tes         | tCode: EF | A Method | 8015D: Gaso | ine Range | !        |      |
| Client ID:          | SS23-13 0'             | 376        | F              | RunNo: <b>96</b> | 5123        |           |          |             |           |          |      |
| Prep Date:          | 4/17/2023              | Analysis D | ate: 4/        | 19/2023          | S           | SeqNo: 34 | 81413    | Units: mg/K | g         |          |      |
| Analyte             |                        | Result     | PQL            | SPK value        | SPK Ref Val | %REC      | LowLimit | HighLimit   | %RPD      | RPDLimit | Qual |
| Gasoline Rang       | e Organics (GRO)       | 22         | 4.7            | 23.47            | 0           | 95.1      | 70       | 130         | 9.46      | 20       |      |
| Surr: BFB           | 5000 939.0             |            |                |                  |             | 534       | 37.7     | 212         | 0         | 0        | S    |

Qualifiers:

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- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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25-Apr-23

| Client:<br>Project: | Vertex R<br>Laguna S | esources S<br>Salado 5 | ervices,        | Inc.               |              |                  |                |                    |      |          |      |  |
|---------------------|----------------------|------------------------|-----------------|--------------------|--------------|------------------|----------------|--------------------|------|----------|------|--|
| Sample ID:          | lcs-74370            | Samp                   | Гуре: <b>LC</b> | S                  | Tes          | tCode: EF        | PA Method      | 8021B: Volati      | les  |          |      |  |
| Client ID:          | LCSS                 | Batc                   | h ID: 743       | 370                | RunNo: 96093 |                  |                |                    |      |          |      |  |
| Prep Date:          | 4/17/2023            | Analysis [             |                 |                    |              | SeqNo: 34        |                | Units: mg/K        | a    |          |      |  |
|                     |                      |                        |                 |                    |              |                  |                | _                  | -    |          | Qual |  |
| Analyte<br>Benzene  |                      | Result<br>0.87         | PQL<br>0.025    | SPK value<br>1.000 | SPK Ref Val  | %REC<br>86.7     | LowLimit<br>80 | HighLimit<br>120   | %RPD | RPDLimit | Qual |  |
| Toluene             |                      | 0.86                   | 0.025           | 1.000              | 0            | 86.4             | 80             | 120                |      |          |      |  |
| Ethylbenzene        |                      | 0.85                   | 0.050           | 1.000              | 0            | 84.8             | 80             | 120                |      |          |      |  |
| Xylenes, Total      |                      | 2.5                    | 0.10            | 3.000              | 0            | 83.9             | 80             | 120                |      |          |      |  |
| <b>,</b> ,          | ofluorobenzene       | 0.85                   |                 | 1.000              | -            | 85.3             | 70             | 130                |      |          |      |  |
| Sample ID:          | mb-74370             | Samp                   | Гуре: МЕ        | BLK                | Tes          | tCode: EF        | PA Method      | 8021B: Volati      | les  |          |      |  |
| -                   | PBS                  |                        | h ID: 743       |                    |              | RunNo: <b>96</b> |                |                    |      |          |      |  |
| Prep Date:          | 4/17/2023            | Analysis [             |                 |                    |              | SeqNo: 34        |                | Units: mg/K        | 'n   |          |      |  |
|                     | 4/11/2023            |                        |                 |                    |              |                  |                | •                  | •    |          |      |  |
| Analyte             |                      | Result                 | PQL             | SPK value          | SPK Ref Val  | %REC             | LowLimit       | HighLimit          | %RPD | RPDLimit | Qual |  |
| Benzene             |                      | ND                     | 0.025           |                    |              |                  |                |                    |      |          |      |  |
| Toluene             |                      | ND                     | 0.050           |                    |              |                  |                |                    |      |          |      |  |
| Ethylbenzene        |                      | ND                     | 0.050           |                    |              |                  |                |                    |      |          |      |  |
| Xylenes, Total      | a .                  | ND                     | 0.10            | 4 000              |              | <u></u>          |                | 400                |      |          |      |  |
| Surr: 4-Brom        | ofluorobenzene       | 0.85                   |                 | 1.000              |              | 85.4             | 70             | 130                |      |          |      |  |
| Sample ID:          | LCS-74376            | Samp                   | Гуре: <b>LC</b> | S                  | Tes          | tCode: EF        | PA Method      | 8021B: Volati      | les  |          |      |  |
| Client ID:          | LCSS                 | Batc                   | h ID: 743       | 376                | F            | RunNo: <b>96</b> | 6123           |                    |      |          |      |  |
| Prep Date:          | 4/17/2023            | Analysis [             | Date: 4/        | 18/2023            | S            | SeqNo: 34        | 481436         | Units: <b>mg/K</b> | g    |          |      |  |
| Analyte             |                      | Result                 | PQL             | SPK value          | SPK Ref Val  | %REC             | LowLimit       | HighLimit          | %RPD | RPDLimit | Qual |  |
| Benzene             |                      | 0.85                   | 0.025           | 1.000              | 0            | 85.2             | 80             | 120                |      |          |      |  |
| Toluene             |                      | 0.86                   | 0.050           | 1.000              | 0            | 86.0             | 80             | 120                |      |          |      |  |
| Ethylbenzene        |                      | 0.87                   | 0.050           | 1.000              | 0            | 86.9             | 80             | 120                |      |          |      |  |
| Xylenes, Total      |                      | 2.6                    | 0.10            | 3.000              | 0            | 88.1             | 80             | 120                |      |          |      |  |
| Surr: 4-Brom        | ofluorobenzene       | 0.97                   |                 | 1.000              |              | 96.8             | 70             | 130                |      |          |      |  |
| Sample ID:          | mb-74376             | Samp                   | Гуре: МЕ        | BLK                | Tes          | tCode: EF        | PA Method      | 8021B: Volati      | les  |          |      |  |
| Client ID:          | PBS                  | Batc                   | h ID: 743       | 376                | F            | RunNo: <b>96</b> | 6123           |                    |      |          |      |  |
| Prep Date:          | 4/17/2023            | Analysis [             | Date: 4/        | 18/2023            | Ś            | SeqNo: 34        | 481437         | Units: <b>mg/K</b> | g    |          |      |  |
| Analyte             |                      | Result                 | PQL             | SPK value          | SPK Ref Val  | %REC             | LowLimit       | HighLimit          | %RPD | RPDLimit | Qual |  |
| Benzene             |                      | ND                     | 0.025           |                    |              |                  |                |                    |      |          |      |  |
| Toluene             |                      | ND                     | 0.050           |                    |              |                  |                |                    |      |          |      |  |
| Ethylbenzene        |                      | ND                     | 0.050           |                    |              |                  |                |                    |      |          |      |  |
| Xylenes, Total      |                      | ND                     | 0.10            |                    |              |                  |                |                    |      |          |      |  |
| Surr: 4-Brom        | ofluorobenzene       | 0.94                   |                 | 1.000              |              | 94.3             | 70             | 130                |      |          |      |  |
|                     |                      |                        |                 | -                  |              |                  | -              |                    |      |          |      |  |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2304663

25-Apr-23

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Client:<br>Project: | Vertex Re<br>Laguna Sa |            | ervices,        | Inc.      |             |                  |           |               |       |          |      |
|---------------------|------------------------|------------|-----------------|-----------|-------------|------------------|-----------|---------------|-------|----------|------|
| Sample ID:          | 2304663-014ams         | Samp       | Гуре: <b>МS</b> | ;         | Tes         | tCode: EF        | PA Method | 8021B: Volati | les   |          |      |
| Client ID:          | SS23-14 0'             | Batcl      | h ID: 743       | 376       | F           | RunNo: <b>96</b> | 6123      |               |       |          |      |
| Prep Date:          | 4/17/2023              | Analysis [ | Date: 4/1       | 19/2023   | S           | SeqNo: 34        | 481441    | Units: mg/K   | g     |          |      |
| Analyte             |                        | Result     | PQL             | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit     | %RPD  | RPDLimit | Qual |
| Benzene             |                        | 0.85       | 0.024           | 0.9756    | 0           | 87.2             | 68.8      | 120           |       |          |      |
| Toluene             |                        | 0.87       | 0.049           | 0.9756    | 0.01816     | 87.8             | 73.6      | 124           |       |          |      |
| Ethylbenzene        |                        | 0.88       | 0.049           | 0.9756    | 0           | 90.1             | 72.7      | 129           |       |          |      |
| Xylenes, Total      |                        | 2.7        | 0.098           | 2.927     | 0           | 90.8             | 75.7      | 126           |       |          |      |
| Surr: 4-Bromo       | ofluorobenzene         | 0.98       |                 | 0.9756    |             | 101              | 70        | 130           |       |          |      |
| Sample ID:          | 2304663-014amsd        | SampT      | Гуре: <b>МЅ</b> | D         | Tes         | tCode: EF        | PA Method | 8021B: Volati | les   |          |      |
| Client ID:          | SS23-14 0'             | Batcl      | h ID: 743       | 376       | F           | RunNo: <b>96</b> | 6123      |               |       |          |      |
| Prep Date:          | 4/17/2023              | Analysis [ | Date: 4/1       | 19/2023   | S           | SeqNo: 34        | 481442    | Units: mg/K   | g     |          |      |
| Analyte             |                        | Result     | PQL             | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit     | %RPD  | RPDLimit | Qual |
| Benzene             |                        | 0.84       | 0.024           | 0.9794    | 0           | 85.6             | 68.8      | 120           | 1.44  | 20       |      |
| Toluene             |                        | 0.86       | 0.049           | 0.9794    | 0.01816     | 85.7             | 73.6      | 124           | 1.90  | 20       |      |
| Ethylbenzene        |                        | 0.88       | 0.049           | 0.9794    | 0           | 89.4             | 72.7      | 129           | 0.434 | 20       |      |
| Xylenes, Total      |                        | 2.6        | 0.098           | 2.938     | 0           | 90.1             | 75.7      | 126           | 0.445 | 20       |      |
| Surr: 4-Bromo       | ofluorobenzene         | 0.96       |                 | 0.9794    |             | 98.1             | 70        | 130           | 0     | 0        |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 33 of 33

WO#: **2304663** 

| Client Name:       Vork Order Number: 2304663       RcpNo: 1         Received By:       Cheyenne Caseon       4/15/2023 8:40:00 AM       Chell         Completed By:       Cheyenne Caseon       4/15/2023 8:20:47 AM       Chell         Reviewed By:       TWB 4\\[1[1][1]3       Courbie       Courbie         Chain of Custody complete?       Yes       No       Not Present         1.       is Chain of Custody complete?       Yes       No       Na         2.       How use the sample delivered?       Courbier       Na       A         3.       Ware all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         4.       Ware all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         5.       Sample(s) in proper container(s)?       Yes       No       NA       A         6.       Sufficient samples volume for indicated test(s)?       Yes       No       NA       B         9.       Received at least 1 viai with headspace <1/td>       Yes       No       NA       B         10.       Ware all adviase were requested?       Yes       No       NA       B         12.       Are samples (curver for adviorization)       Yes       No       NA   | HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY   | TEL: 505-345-2   | ntal Analysis Labo<br>4901 Hawk,<br>Albuquerque, NM<br>3975 FAX: 505-345<br>w.hallenvironment | ins NE<br>87109 <b>Sam</b><br>5-4107 | ple Log-In Che             | ck List       |
|--|---|--|---|--------------------------------------|----------------------------|---------------|
| Reviewed By:       WB 41(-1(V3)         Chain of Custody complete?       Yes       No       Not Present         1. is Chain of Custody complete?       Yes       No       Not Present         2. How was the sample delivered?       Courier         Loa In       3. Was an attempt made to cool the samples?       Yes       No       NA         3. Was an attempt made to cool the samples?       Yes       No       NA         4. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         5. Sample(s) in proper container(s)?       Yes       No       NA         6. Sufficient sample volume for indicated test(s)?       Yes       No       NA         7. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         9. Received at least 1 vial with headspace <1/4" for AQ VOA?       Yes       No       NA         10. Were any sample containers received broken?       Yes       No       If of preserved bottles checked for pft:         11. Does papervork match bottle labels?       Yes       No       Adjusted?         12. Are matices correctly identified on Chain of Custody?       Yes       No       Adjusted?         13. Is it clear what analyses were requested?       Yes       No       Na       Preson Noti |   | Work Order Num   | nber: 2304663   |                                      | RcptNo: 1                  |               |
| Reviewed By:       WB 41(-1(V3)         Chain of Custody complete?       Yes       No       Not Present         1. is Chain of Custody complete?       Yes       No       Not Present         2. How was the sample delivered?       Courier         Loa In       3. Was an attempt made to cool the samples?       Yes       No       NA         3. Was an attempt made to cool the samples?       Yes       No       NA         4. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         5. Sample(s) in proper container(s)?       Yes       No       NA         6. Sufficient sample volume for indicated test(s)?       Yes       No       NA         7. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         9. Received at least 1 vial with headspace <1/4" for AQ VOA?   | Received By: Cheyenne Cason                       | 4/15/2023 8:40:00  | АМ  | Chent                                |                            |               |
| 1. Is Chain of Custody complete?       Yes       No       Not Present         2. How was the sample delivered?       Courier         3. Was an attempt made to cool the samples?       Yes       No       NA         4. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         5. Sample(s) in proper container(s)?       Yes       No       NA         6. Sufficient sample volume for indicated test(s)?       Yes       No       NA         7. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         9. Received at least 1 viat with headspace <1/a^* for AO VOA?   |   |  | АМ  | Chenl                                |                            |               |
| 2. How was the sample delivered?       Courier         Log In  | Chain of Custody                                  |  |   |                                      |                            |               |
| Log In         3. Was an attempt made to cool the samples?       Yes       No       NA         4. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         5. Sample(s) in proper container(s)?       Yes       No       NA         6. Sufficient sample volume for indicated test(s)?       Yes       No       NA         7. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         9. Received at least 1 vial with headspace <1/4" for AQ VOA?  | 1. Is Chain of Custody complete?                  |  | Yes 🗹   | No 🗌                                 | Not Present                |               |
| 3. Was an attempt made to cool the samples?       Yes       No       NA         4. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         5. Sample(s) in proper container(s)?       Yes       No       NA         6. Sufficient sample volume for indicated test(s)?       Yes       No       NA         7. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         8. Was preservative added to bottles?       Yes       No       NA         9. Received at least 1 vial with headspace <1/4° for AQ VOA?   | 2. How was the sample delivered?                  |  | Courier   |                                      |                            |               |
| 1. How an example volume for indicated test(s)?       Yes       No         6. Sufficient sample volume for indicated test(s)?       Yes       No         7. Are samples (except VOA and ONG) property preserved?       Yes       No         8. Was preservative added to bottles?       Yes       No         9. Received at least 1 vial with headspace <1/4" for AQ VOA?  |   | ?  | Yes 🔽   | No 🗌                                 |                            |               |
| 6. Sufficient sample volume for indicated test(s)?       Yes       No         7. Are samples (except VOA and ONG) properly preserved?       Yes       No         8. Was preservative added to bottles?       Yes       No       NA         9. Received at least 1 vial with headspace <1/4" for AQ VOA?  | 4. Were all samples received at a temperatur      | e of >0° C to 6.0°C  | Yes 🗹   | No 🗌                                 | NA 🗍                       |               |
| 7. Are samples (except VOA and ONG) property preserved? Yes No   8. Was preservative added to bottles? Yes No NA   9. Received at least 1 vial with headspace <1/4" for AQ VOA?  | 5. Sample(s) in proper container(s)?              |  | Yes 🗹   | No 🗌                                 |                            |               |
| 8. Was preservative added to bottles?       Yes       No       NA         9. Received at least 1 vial with headspace <1/4" for AQ VOA?   | 6. Sufficient sample volume for indicated test    | (s)?   | Yes 🗹   | No 🗌                                 |                            |               |
| 9. Received at least 1 vial with headspace <1/4" for AQ VOA?   | 7. Are samples (except VOA and ONG) prope         | erly preserved?  | Yes 🗹   | No 🗌                                 |                            |               |
| 10. Were any sample containers received broken?       Yes       No   | 8. Was preservative added to bottles?             |  | Yes 🗌   | No 🔽                                 | NA 🗌                       |               |
| 11. Does paperwork match bottle labels?       Yes       No       # of preserved bottles checked for pH:         (Note discrepancies on chain of custody)       Yes       No       Adjusted?         12. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         13. Is it clear what analyses were requested?       Yes       No       Adjusted?         14. Were all holding times able to be met?       Yes       No       Enecked by: Jr. Y // 17/2 3         15. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:       Date:  | 9. Received at least 1 vial with headspace <1     | /4" for AQ VOA?  | Yes 🗌   | No 🗌                                 | NA 🗹                       |               |
| 11. Does paperwork match bottle labels?       Yes       ✓       No       for pH:         (Note discrepancies on chain of custody)       Yes       ✓       No       Adjusted?         12. Are matrices correctly identified on Chain of Custody?       Yes       ✓       No       Adjusted?         13. Is it clear what analyses were requested?       Yes       ✓       No       Adjusted?         14. Were all holding times able to be met?       Yes       ✓       No       enecked by:       July 1/2/2.3         15. Was client notified of all discrepancies with this order?       Yes       No       Na       ✓         Person Notified:       Date:  | 10. Were any sample containers received brol      | ken?   | Yes 🗌   | No 🗹 [                               | # of preserved             |               |
| 12. No matrices concerning of chain of clustedy?       Yes       No         13. Is it clear what analyses were requested?       Yes       No         14. Were all holding times able to be met?       Yes       No         14. Were all holding times able to be met?       Yes       No         (If no, notify customer for authorization.)       Special Handling (if applicable)         15. Was client notified of all discrepancies with this order?       Yes       No         Person Notified:       Date:  |   |  | Yes 🗹   | No 🗆                                 | bottles checked<br>for pH: | unless poted) |
| 14. Were all holding times able to be met?<br>(If no, notify customer for authorization.)       Yes       No       Enecked by: <u>Juy 117/23</u> Special Handling (if applicable)       15. Was client notified of all discrepancies with this order?       Yes       No       NA         15. Was client notified:       Date:       Da  | 12. Are matrices correctly identified on Chain of | of Custody?  | Yes 🗹   | No 🗌                                 | Adjusted?                  |               |
| (If no, notify customer for authorization.)         Special Handling (if applicable)         15. Was client notified of all discrepancies with this order?       Yes         Person Notified:       Date:         By Whom:       Via:         Regarding:       Client Instructions:         16. Additional remarks:         17. Cooler Information         Cooler No       Temp °C         Condition       Seal Intact       Seal No         Seal Date       Signed By   | 13. Is it clear what analyses were requested?     |  | Yes 🗹   | No 🗌                                 |                            | 1 1           |
| Special Handling (if applicable)         15. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:       Date:       Date:       Date:       Date:         By Whom:       Via:       eMail       Phone       Fax       In Person         Regarding:       Client Instructions:       In Person       In Person         16. Additional remarks:       17. Cooler Information       Seal Intact       Seal No       Seal Date       Signed By   | •   |  | Yes 🗹   | No 🗌 🛛                               | Checked by: Jn             | 1/17/23       |
| 15. Was client notified of all discrepancies with this order?       Yes       No       NA       ✓         Person Notified:       Date:   |   |  |   |                                      |                            |               |
| By Whom: Via: eMail Phone Fax In Person<br>Regarding:<br>Client Instructions:<br>16. Additional remarks:<br>17. <u>Cooler Information</u><br><u>Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By</u>  |   | h this order?  | Yes 🗌   | No 🗌                                 | NA 🔽                       |               |
| Regarding:       Client Instructions:         16. Additional remarks:         17. Cooler Information         Cooler No       Temp °C         Condition       Seal Intact       Seal No         Seal Date       Signed By   | Person Notified:                                  | Date   | e: <b>[</b>   |                                      |                            |               |
| Client Instructions:         16. Additional remarks:         17. Cooler Information         Cooler No       Temp °C         Condition       Seal Intact       Seal Date         Signed By  |   | Via:   | 🗌 eMail 📋   | Phone 🗌 Fax                          | In Person                  |               |
| 16. Additional remarks:<br>17. <u>Cooler Information</u><br><u>Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By</u>   |   |  |   |                                      |                            |               |
| 17. <u>Cooler Information</u><br>Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By   |   |  |   |                                      |                            |               |
| Cooler No         Temp °C         Condition         Seal Intact         Seal No         Seal Date         Signed By  |   |  |   |                                      |                            |               |
|  |   | Seal Intact Seal No  | Seel Data   | Signed By                            |                            |               |
|  |   | and and a second s | Seal Date   | Signed By                            |                            |               |
|  | L   | ,  |   |                                      |                            |               |

| Received b    | by OCD: 1/8/2025 | 1:37:44 PM              |                |   |                        | 1                          |  |               |              |                    |  |                 |                                 |           | Page 2         | 91 of 351 |
|---------------|------------------|-------------------------|----------------|---|------------------------|----------------------------|--|---------------|--------------|--------------------|--|-----------------|---------------------------------|-----------|----------------|-----------|
| С             | hain-of-Cu       | istody Record           | Turn-Aroun     | d Time:   |                        |                            |  | Н             | AL           | LI                 | ΕΝΥ  | IR              | ON                              | ME        | NTA            | L         |
|               | Devon            | (Vertex)                | Project Nar    | ne:<br>na Salad   | 5Dara                  |                            |  |               |              |                    | <b>SIS</b>                                   |                 |                                 |           | ΤΟΙ            | RY        |
| Mailing       | Address:         | File                    | - Lagu         | na Salad  | 05                     |                            | 4901 I   | lawki         | ns Ni        | E - /              | Albuqu                                       |                 |                                 |           |                |           |
|               |                  | •                       | Project #:     | - Ø192  | 7                      |                            | Tel. 5   | 05-34         | 5-39         | _                  | Fax<br>alysis                                |                 | 845-41<br>lest                  | 107       |                |           |
| Phone #       |                  | /                       | Project Ma     |   | /                      |                            | â  |               |              |                    | SO4  |                 | f                               |           | in particular. |           |
| email o       |                  |                         |                | _   | 1).                    | 021                        | MRC 3's  |               | VS           |                    |  |                 | pse                             | 2         |                |           |
| QA/QC I       | Package:         | 🗆 Level 4 (Full Validat | ion) Herr      | t Sta   | llings                 | 3's (8                     | RO / MR  |               | 8270SIMS     |                    | PO4,   |                 | ent/A                           |           | 1.0            |           |
|               |                  | ompliance               | Sampler:       | Hunter  | DNO Mardy              | Ĕ                          | 1 DF   | 504.1)        |              |                    | NO <sub>2</sub> ,                            | 2               | rese                            |           |                |           |
|               |                  |                         | On Ice:        |   | I No Mardy             |                            | SRO<br>//sel   | 1 50          | 0 or         |                    | ő  | 0<br>N          | E)                              |           |                |           |
|               | ) (Туре)         |                         | # of Coole     | rs: L<br>np(including CF): L,   | (-0.1=1.0 (°C)         | - TB                       | 5D(0   | thoc          | 831          | Met                | Ž (  | emi-            | lifor                           |           | 5 d            |           |
|               |                  |                         | Container      | Preservative  |                        | (BTEX) MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO)<br>8081 Decticides/8082 PCB's | EDB (Method   | PAHs by 8310 | RCRA 8 Metals      | CJ, F, Br, NO <sub>3</sub> ,<br>8260 (VOA)   | 8270 (Semi-VOA) | Total Coliform (Present/Absent) | 2-5       |                |           |
| Date          | Time Matrix      | Sample Name             | Type and       | the second se | 2304663                |                            |  |               | à            | <u> </u>           | <u>0</u> 8                                   | 8               | Ĕ                               | _         |                |           |
|               | 9:00 Soil        |                         | D' 407         | Ice   | 00                     | X                          | $\times$   |               |              |                    | <u>X</u>                                     |                 |                                 |           | ┝━┼━           |           |
| 42465         | 9:05             | 5523-02                 | 0' 1           |   | 002                    | X                          | X  | 4             |              |                    | <u>×                                    </u> |                 |                                 | _         |                |           |
|               | 9:10             |                         | $\mathcal{O}'$ |   | 003                    | X                          | X  |               |              |                    | 4  |                 |                                 |           |                |           |
|               | 9:15             | 5523-04                 | $\mathcal{D}'$ |   | apy                    | 4                          | X  |               |              |                    | X  | -               |                                 |           |                |           |
|               | 9:20             |                         | 0'             |   | 005                    | X                          | 12   |               |              |                    | Y  |                 |                                 |           | ┢━┿╸           |           |
|               | 9:25             | 5523-06                 | 0'             |   | 006                    | 17                         | 1×1  |               |              |                    | *  | -               |                                 | -         | ┝─┾─           |           |
|               | 9:30             | 5523-07 k               | 01             |   | 007                    | X                          | X  |               |              | $\left  - \right $ | X  |                 |                                 | _         | +              |           |
|               | 9:35             | 5523-08                 | 0'             |   | 008                    | X                          | X  |               | -            |                    | 1-   | -               |                                 | -         | 1 2000         |           |
|               | 9:40             |                         | 18'            |   | 009                    | 17                         |  |               | -            |                    |  | +               | +                               |           | ++             |           |
|               | 9:45             | 5523-10                 | 0'             |   | 010                    | X                          | 12-  | $\rightarrow$ |              |                    |  | +               | +                               |           | ┼─┼╴           |           |
|               | 9:50             | 5523-11                 | ø'             |   | 011                    | 17                         | 4  | _             | -            |                    | X  | -               | +                               |           | ++             |           |
| V             | 9:55             | 5523-12                 | O' V           |   | Date Time              | 1-                         |  | 1-            |              |                    | LXL_   |                 |                                 |           |                |           |
| Date:         | Time: Relinqu    | ished by:               | Received b     | y: Via:   | Date Time<br>4/4/3 945 |                            | 101.   | K             | 1<br>DAA     | t                  | Sta  | llin            | 195                             | We        | vte;           | رير       |
| 4/33/2        |                  | ished by:               | Received b     | Via:  | Date Time              | -                          | <u> </u>   | U             |              |                    |  | U               |                                 |           |                |           |
| Date<br>U H D | Time: Relinqu    |                         |                |   | 4/15/20 084            | 0                          |  |               |              |                    |  |                 |                                 |           |                |           |
| HTO           | 21 4100 F -12/   | Mumm                    | Emc            | CONT  | -11010 00-0            | <u> </u>                   | -11-1124 - 0   | av aub a      | ontract      | ad data            | will be cl                                   | early no        | tated on                        | the analy | tical repor    | t.        |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted to Imaging: 4/17/2025 1:37:41 PM

Received by OCD: 1/8/2025 1:37:44 PM

| eceived l                     | by OCD:            | 1/8/2025           | 1:37:44 PM         |                                       |                |                  |                                       |                                | -            |               |                 |             |              |   |                    |                 |                                 |              | Page         | e 292 d  | of 351   |
|-------------------------------|--------------------|--------------------|--------------------|---------------------------------------|----------------|------------------|---------------------------------------|--------------------------------|--------------|---------------|-----------------|-------------|--------------|---|--------------------|-----------------|---------------------------------|--------------|--------------|----------|----------|
| С                             | hain-              | of-Cu              | stody Reco         | rd                                    | Turn-A         | round            | Time:                                 |                                |              |               |                 | н           | ۵1           | LE  | NV                 | TR              | 10                              | M            | ENT          | AL       |          |
| Client:                       | ~                  | von                | (Vertes            | <u> </u>                              |                | andard<br>t Name | Rush_                                 | 5004<br>ado 5<br>27            |              |               |                 | A           | NA           | LY  | SIS                | 5 L             |                                 | OR           | ATC          |          |          |
| Mailing                       | Address:           | $\bigcirc$         | a File             |                                       | Lo             | gun              | a Sala                                | ado 5                          |              | 490           | )1 Ha           | wkin        | s NE         | - A   | lbuqu              | erqu            | e, NN                           | 18710        | 9            |          |          |
|                               |                    |                    | (                  | · · · · · · · · · · · · · · · · · · · | Projec         | t #:             | 2 11 T                                | Area Company                   |              | Те            | I. 50           | 5-345       | -397         | 75  | Fax                | 505-            | 345-4                           | 1107         | Collection ( |          |          |
| Phone #                       | <i>‡</i> :         |                    |                    |                                       | de             | RE               | -0190                                 | 27                             |              |               |                 |             |              |   | lysis              | Req             | uest                            |              |              |          |          |
| email or                      |                    |                    | V                  |                                       | Projec         | t Mana           | aer:                                  |                                | E.           | Ô             |                 |             |              | los de la compañía de |                    | 1 8<br>1        | ent)                            |              |              |          | 11       |
| QA/QC I                       | Package:<br>dard   | <u> </u>           | □ Level 4 (Full Va | lidation)                             | K              | nen              | + 51                                  | Fallings                       | TMB's (8021) | / DRO / MRO)  | PCB's           |             | 8270SIMS     | ġ   | F and a state      | 2.              | ent/Abs                         |              |              |          |          |
|                               | tation:            | □ Az Co<br>□ Other | mpliance           |                                       |                | ler: H           | nuter                                 | DNO MORL                       |              | RO / DF       | Pesticides/8082 | 8           |              | IS NO.  | 5                  | (VO)            | (Prese                          |              |              |          |          |
|                               |                    |                    |                    |                                       |                | oolers:          |                                       |                                | MTBE /       | 0)<br>0       | ticide          | poq         | 8310         | NC NC   | E A                | j-<br>Z         | form                            | 2.3.4        |              |          |          |
|                               |                    |                    |                    |                                       | Coole<br>Conta |                  | (Including CF): ], [.<br>Preservative |                                | BTEX) M      | TPH:8015D(GRO | 8081 Pest       | EDB (Method | PAHs by 8310 | RCRA 8 Metals   | 8260 (VOA)         | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |              |              |          |          |
| Date                          | Time               | Matrix             | Sample Name        |                                       | Type           | and #            | Туре                                  | 2304663                        |              | 上             | 8               | Ξ           |              | <u>x</u> (c   |                    | <u>ö</u>        | F                               |              |              |          | +-       |
| 4/13/23                       | 10:00              | Soil               | 5523-13            | $\emptyset'$                          | 4              | 02               | Ice                                   | 013                            | X            | X             |                 |             |              |   | $\left  - \right $ |                 | -                               |              | _            |          |          |
| 1                             | 10:05              | 1                  | 5523-14            | ø'                                    |                |                  | 1                                     | 014                            | X            | 1             |                 | -           |              |   | 4                  | 1000            |                                 | ar the selfs |              |          |          |
|                               | 10:10              |                    | 5523-15            | Ø                                     |                |                  |                                       | 015                            | N            | X             |                 |             | _            |   | <u> </u>           | 2 - 11 M        |                                 |              |              |          |          |
|                               | 10:15              |                    | 5523-16            | Ø'                                    |                |                  |                                       | 1016                           | K            | X             |                 |             |              |   | 4                  |                 |                                 |              |              |          |          |
|                               | 1020               |                    | 5523-17            | D'                                    |                |                  |                                       | 017                            | 1×           | 17            |                 |             |              | X   | $\langle  $        |                 |                                 | -            |              |          |          |
|                               | 10:25              |                    | 5523-18            | Ø'                                    |                |                  |                                       | 018                            | 4            | X             |                 |             |              | >   |                    |                 |                                 |              |              |          | -        |
|                               | 10:30              |                    | 5523-19            | D'                                    |                |                  |                                       | 019                            | 4            | 17            |                 |             |              | 2   | <u>( </u>          |                 |                                 |              |              |          |          |
|                               | 20:35              |                    | 5523-20            | Ø                                     |                |                  |                                       | 00                             | X            | 17            |                 |             |              |   | <u> </u>           |                 |                                 |              |              |          |          |
|                               | 10:40              |                    | 5523-21            | Ø                                     |                |                  |                                       | 021                            | X            | X             |                 |             |              | _1  | -                  |                 |                                 |              |              | -        | -        |
|                               | 10:45              |                    | 3523-22            | D                                     |                |                  |                                       | 520                            | Y            | · X           |                 |             |              |   | 5                  |                 |                                 |              |              | $\vdash$ |          |
|                               | 10:50              |                    | 5523-23            | D'                                    | 1              |                  |                                       | 023                            | $\checkmark$ | 1×            |                 |             |              |   | X                  |                 | -                               |              |              |          |          |
|                               | 10:55              | 1                  | 5523-24            | Ø                                     |                |                  | V                                     | 024                            | <u> </u>     | <u>Y</u>      |                 |             |              | Ì   | 4                  |                 |                                 |              |              | Ļ        | <u> </u> |
| Date:<br><b>4/<u>1</u>3/2</b> | Time:<br>3 3.000P/ |                    | inder 2            | lin                                   | M              | ved by:          | Via:                                  | Pate Time<br>414/3 (145        | Re           | mark          | (s:<br>(        | <u>.</u>    | K            | ent   | - 5                | fal             | ling                            | 95           | (Vev         | rter     | L)       |
| Date:                         | Time:              | Relinquis          | shed by:           |                                       |                | ved by:<br>NL    | Via:<br>COUNU                         | 415723<br>414723<br>41147 0840 |              |               |                 |             |              |   |                    |                 |                                 |              |              |          |          |

Received by OCD: 1/8/2025 1:37:44 PM

| C                | hain             | of-Cu             | ustody Record               | Turn-Around                            | Time:   |                             |              |                  |                 | ы                  |                                 |                      |                | те              |                                 |       |                      | NTA    |      |
|------------------|------------------|-------------------|-----------------------------|--|---|-----------------------------|--------------|------------------|-----------------|--------------------|---------------------------------|----------------------|----------------|-----------------|---------------------------------|-------|----------------------|--------|------|
| Client:          | Deve             |                   | (Vertex)                    | Standard<br>Project Name               | e:  | 5 Day                       |              |                  |                 | A                  | NA                              | Y                    | 515            | 5 L             | AE                              | 301   |                      | то     |      |
| Mailing          | Address          | : 0               | n File                      | Lagun                                  | ia Sala   | do 5                        |              | 49(              | )1 H            |                    | ww.ha<br>s NE                   |                      |                |                 |                                 |       | 109                  |        |      |
| Phone            |                  |                   |                             | Project #:                             | E-010   | <u>5000</u><br>127          |              | Te               | l. 50           | 5-345              | -3975                           | Analy                |                |                 | uest                            | -4107 |                      |        |      |
| email o          | r Fax#:          | N                 |                             | Project Mana                           | ager:   |                             | 3            | Ô                |                 |                    |                                 | SQ4                  |                | 1.000           | ent)                            |       |                      |        |      |
| QA/QC            | Package:<br>dard |                   | □ Level 4 (Full Validation) | her                                    | nt S  | tallings                    | TMB's (8021) | DRO / MRO)       | PCB's           |                    | 82/0SIMS                        | PO4,                 | 0.186<br>10963 |                 | int/Abs                         |       |                      |        |      |
| Accred           |                  | □ Az Co<br>□ Othe | ompliance                   | Sampler: -                             | Tunt-er<br>Ves  | D No Morty                  |              |                  | Pesticides/8082 | 2                  | 님                               | 3, NO <sub>2</sub> , |                | (YC             | (Prese                          |       |                      |        |      |
|                  | (Type)           |                   |                             | # of Coolers:                          |   |                             | MTBE         | U<br>U<br>U<br>U | cide            | po                 | 310<br>etal                     | N N                  | 2              | i-VC            | E                               |       |                      |        |      |
| Date             | Time             | Matrix            | Sample Name                 | Cooler Temp<br>Container<br>Type and # | Preservative<br>Type  |                             | BTEX) M      | TPH:8015D(GRO    | 8081 Pest       | EDB (Method 504.1) | PAHS by 8310 c<br>RCRA 8 Metals | ChyF, Br, NO3,       | 8260 (VOA)     | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |       |                      |        |      |
| 4/53/23          | 11.00            | Soil              | 5523-25 Ø                   | 402                                    | Ice   | 025                         | X            | X                |                 |                    |                                 | X                    |                | 1000            | 5.13CH                          |       |                      |        |      |
|                  | 11:05            | 1                 | 5523-26 Ø                   | J                                      |   | 026                         | X            | Х                |                 | 1.00               | il<br>an e ceg                  | X                    |                | An              |                                 | 78    |                      |        |      |
|                  |                  |                   |                             |  |   |                             |              |                  |                 |                    |                                 | ľ                    |                |                 |                                 |       | 124                  | 22     |      |
|                  |                  |                   |                             |  | 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -<br>1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -<br>1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - |                             |              |                  |                 |                    |                                 |                      | 1222           | 11.11           |                                 |       |                      |        |      |
|                  |                  |                   |                             | F                                      | 8 n n   |                             |              |                  |                 | 1                  | 2.17                            |                      |                |                 |                                 |       |                      |        |      |
|                  |                  |                   |                             |  |   | Card and adapted to the     |              |                  |                 |                    |                                 | 1.00%                |                |                 |                                 |       | - 00                 |        |      |
|                  |                  |                   |                             |  | 87.0.345  |                             |              |                  |                 |                    |                                 |                      |                |                 |                                 |       |                      |        |      |
|                  | 1 D              | 1922              |                             |  |   |                             |              |                  |                 |                    |                                 |                      |                |                 | 1.12.00<br>                     |       | 12100                |        |      |
|                  |                  |                   |                             |  |   | S. Divers                   |              |                  |                 |                    |                                 |                      | 1716           | 12.27           |                                 |       |                      | 11 - E |      |
|                  |                  |                   |                             | 9                                      | n n e<br>Histor Million   |                             |              |                  |                 | 1                  |                                 |                      |                | 1               |                                 |       |                      |        |      |
|                  |                  |                   |                             |  | 1.12.11   |                             |              |                  |                 |                    |                                 |                      |                |                 |                                 |       |                      |        |      |
|                  |                  | $\forall$         |                             |  |   | Der Galden - Der mit er Die |              |                  |                 |                    |                                 | 12                   | 29             | 101             |                                 |       | la est est<br>star s | 25     |      |
| Date:<br>4/13/23 | Time:<br>3.00AM  | Relinquist        | nter Klini                  | Received by:                           | Via:  | Date Time<br>4 14 33 945    | Rer          | narks            |                 | : P                | ser                             | +                    | 5,             | tal             | lie                             | 195   | . (.                 | Ver    | tes) |
| Date:            | Time:            | Relinquist        | ,                           | Received by:                           | Via:  | Date Time                   |              |                  |                 |                    |                                 |                      |                |                 | 2                               |       |                      |        |      |
| 114/33           | 1900             | QA1               |                             | IM                                     | Cours   | 4 15/23 0840                |              |                  |                 |                    |                                 |                      |                |                 |                                 |       |                      |        |      |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 4/17/2025 1:37:41 PM



July 17, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX:

RE: Spud 16 State 010

OrderNo.: 2307083

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 28 sample(s) on 7/6/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

Spud 16 State 010

Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307083

Date Reported: 7/17/2023

| Client Sample ID: BH23-16 2'          |
|---------------------------------------|
| Collection Date: 6/30/2023 9:05:00 AM |
| Received Date: 7/6/2023 7:35:00 AM    |

| Lab ID: 2307083-001              | Matrix: SOIL | Rece     | eived Date: | 7/6/20 | 23 7:35:00 AM        |
|----------------------------------|--------------|----------|-------------|--------|----------------------|
| Analyses                         | Result       | RL Qu    | al Units    | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |             |        | Analyst: DGH         |
| Diesel Range Organics (DRO)      | ND           | 9.2      | mg/Kg       | 1      | 7/6/2023 3:51:46 PM  |
| Motor Oil Range Organics (MRO)   | ND           | 46       | mg/Kg       | 1      | 7/6/2023 3:51:46 PM  |
| Surr: DNOP                       | 89.4         | 69-147   | %Rec        | 1      | 7/6/2023 3:51:46 PM  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |             |        | Analyst: KMN         |
| Gasoline Range Organics (GRO)    | ND           | 4.8      | mg/Kg       | 1      | 7/7/2023 10:30:00 PM |
| Surr: BFB                        | 93.8         | 15-244   | %Rec        | 1      | 7/7/2023 10:30:00 PM |
| EPA METHOD 8021B: VOLATILES      |              |          |             |        | Analyst: KMN         |
| Benzene                          | ND           | 0.024    | mg/Kg       | 1      | 7/7/2023 10:30:00 PM |
| Toluene                          | ND           | 0.048    | mg/Kg       | 1      | 7/7/2023 10:30:00 PM |
| Ethylbenzene                     | ND           | 0.048    | mg/Kg       | 1      | 7/7/2023 10:30:00 PM |
| Xylenes, Total                   | ND           | 0.095    | mg/Kg       | 1      | 7/7/2023 10:30:00 PM |
| Surr: 4-Bromofluorobenzene       | 92.6         | 39.1-146 | %Rec        | 1      | 7/7/2023 10:30:00 PM |
| EPA METHOD 300.0: ANIONS         |              |          |             |        | Analyst: <b>JTT</b>  |
| Chloride                         | 4700         | 150      | mg/Kg       | 50     | 7/7/2023 10:55:17 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- RL Rep

Page 1 of 35

Spud 16 State 010

Project:

**Analytical Report** Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-16 4' Collection Date: 6/30/2023 9:10:00 AM Dessived Date: 7/6/2022 7:25:00 AM

| Lab ID: 2307083-002              | Matrix: SOIL | Rece     | eived Date: | 7/6/20 | 23 7:35:00 AM        |
|----------------------------------|--------------|----------|-------------|--------|----------------------|
| Analyses                         | Result       | RL Qu    | al Units    | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANGE | EORGANICS    |          |             |        | Analyst: DGH         |
| Diesel Range Organics (DRO)      | ND           | 9.8      | mg/Kg       | 1      | 7/6/2023 4:24:53 PM  |
| Motor Oil Range Organics (MRO)   | ND           | 49       | mg/Kg       | 1      | 7/6/2023 4:24:53 PM  |
| Surr: DNOP                       | 86.6         | 69-147   | %Rec        | 1      | 7/6/2023 4:24:53 PM  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |             |        | Analyst: KMN         |
| Gasoline Range Organics (GRO)    | ND           | 4.8      | mg/Kg       | 1      | 7/7/2023 10:52:00 PM |
| Surr: BFB                        | 103          | 15-244   | %Rec        | 1      | 7/7/2023 10:52:00 PM |
| EPA METHOD 8021B: VOLATILES      |              |          |             |        | Analyst: KMN         |
| Benzene                          | ND           | 0.024    | mg/Kg       | 1      | 7/7/2023 10:52:00 PM |
| Toluene                          | ND           | 0.048    | mg/Kg       | 1      | 7/7/2023 10:52:00 PM |
| Ethylbenzene                     | ND           | 0.048    | mg/Kg       | 1      | 7/7/2023 10:52:00 PM |
| Xylenes, Total                   | ND           | 0.097    | mg/Kg       | 1      | 7/7/2023 10:52:00 PM |
| Surr: 4-Bromofluorobenzene       | 94.3         | 39.1-146 | %Rec        | 1      | 7/7/2023 10:52:00 PM |
| EPA METHOD 300.0: ANIONS         |              |          |             |        | Analyst: JTT         |
| Chloride                         | 5800         | 300      | mg/Kg       | 100    | 7/7/2023 6:44:22 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range Reporting Limit

RL

Page 2 of 35

Spud 16 State 010

Project:

Analytical Report Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-17 2' Collection Date: 6/30/2023 9:12:00 AM Received Date: 7/6/2023 7:35:00 AM

| : DIESEL RANGE ORGANIC | -  | RL  | Qual Units  | DF   | Date Analyzed   |
|------------------------|--|---|---|--|---|
|                        | -  |   |   |  |   |
| RO)                    | ND   |   |   |  | Analyst: DGH  |
|                        |  | 9.7   | mg/Kg   | 1  | 7/6/2023 4:35:56 PM   |
| (MRO)                  | ND   | 49  | mg/Kg   | 1  | 7/6/2023 4:35:56 PM   |
|                        | 86.7   | 69-147  | %Rec  | 1  | 7/6/2023 4:35:56 PM   |
| BASOLINE RANGE         |  |   |   |  | Analyst: KMN  |
| (GRO)                  | ND   | 5.0   | mg/Kg   | 1  | 7/7/2023 11:14:00 PM  |
|                        | 97.1   | 15-244  | %Rec  | 1  | 7/7/2023 11:14:00 PM  |
| OLATILES               |  |   |   |  | Analyst: KMN  |
|                        | ND   | 0.025   | mg/Kg   | 1  | 7/7/2023 11:14:00 PM  |
|                        | ND   | 0.050   | mg/Kg   | 1  | 7/7/2023 11:14:00 PM  |
|                        | ND   | 0.050   | mg/Kg   | 1  | 7/7/2023 11:14:00 PM  |
|                        | ND   | 0.099   | mg/Kg   | 1  | 7/7/2023 11:14:00 PM  |
| ene                    | 93.1   | 39.1-146  | %Rec  | 1  | 7/7/2023 11:14:00 PM  |
| NIONS                  |  |   |   |  | Analyst: JTT  |
|                        | 2700   | 150   | mg/Kg   | 50   | 7/7/2023 11:07:38 AM  |
| ()                     | (MRO)<br>GASOLINE RANGE<br>(GRO)<br>/OLATILES<br>zene<br>NIONS | 86.7<br>GASOLINE RANGE<br>(GRO) ND<br>97.1<br>/OLATILES<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND | ND         49           86.7         69-147           GASOLINE RANGE         (GRO)           (GRO)         ND         5.0           97.1         15-244           /OLATILES         ND         0.025           ND         0.050           ND         0.050           ND         0.050           ND         0.099           zene         93.1         39.1-146           NIONS         0.000 | ND         49         mg/Kg           86.7         69-147         %Rec           GASOLINE RANGE             (GRO)         ND         5.0         mg/Kg           97.1         15-244         %Rec           /OLATILES         ND         0.025         mg/Kg           ND         0.050         mg/Kg           ND         0.050         mg/Kg           ND         0.050         mg/Kg           ND         0.099         mg/Kg           ND         0.099         mg/Kg           ND         39.1-146         %Rec | ND         49         mg/Kg         1           86.7         69-147         %Rec         1           GASOLINE RANGE |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

Analytical Report Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-17 4' Collection Date: 6/30/2023 9:15:00 AM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-004              | Matrix: SOIL | Rece     | eived Date: | 7/6/20 | 23 7:35:00 AM        |
|----------------------------------|--------------|----------|-------------|--------|----------------------|
| Analyses                         | Result       | RL Qu    | al Units    | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |             |        | Analyst: DGH         |
| Diesel Range Organics (DRO)      | ND           | 9.7      | mg/Kg       | 1      | 7/6/2023 4:46:56 PM  |
| Motor Oil Range Organics (MRO)   | ND           | 49       | mg/Kg       | 1      | 7/6/2023 4:46:56 PM  |
| Surr: DNOP                       | 86.9         | 69-147   | %Rec        | 1      | 7/6/2023 4:46:56 PM  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |             |        | Analyst: KMN         |
| Gasoline Range Organics (GRO)    | ND           | 4.8      | mg/Kg       | 1      | 7/7/2023 11:35:00 PM |
| Surr: BFB                        | 93.8         | 15-244   | %Rec        | 1      | 7/7/2023 11:35:00 PM |
| EPA METHOD 8021B: VOLATILES      |              |          |             |        | Analyst: KMN         |
| Benzene                          | ND           | 0.024    | mg/Kg       | 1      | 7/7/2023 11:35:00 PM |
| Toluene                          | ND           | 0.048    | mg/Kg       | 1      | 7/7/2023 11:35:00 PM |
| Ethylbenzene                     | ND           | 0.048    | mg/Kg       | 1      | 7/7/2023 11:35:00 PM |
| Xylenes, Total                   | ND           | 0.097    | mg/Kg       | 1      | 7/7/2023 11:35:00 PM |
| Surr: 4-Bromofluorobenzene       | 91.9         | 39.1-146 | %Rec        | 1      | 7/7/2023 11:35:00 PM |
| EPA METHOD 300.0: ANIONS         |              |          |             |        | Analyst: JTT         |
| Chloride                         | 4900         | 150      | mg/Kg       | 50     | 7/7/2023 5:30:17 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- RL Re

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Spud 16 State 010

Project:

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307083 Date Reported: 7/17/2023

Client Sample ID: BH23-21 0' Collection Date: 6/30/2023 9:16:00 AM **Dessived Deter** 7/6/2022 7:25:00 AM

| Lab ID: 2307083-005              | Matrix: SOIL | Rece     | eived Date: | 7/6/20 | 23 7:35:00 AM        |
|----------------------------------|--------------|----------|-------------|--------|----------------------|
| Analyses                         | Result       | RL Qu    | al Units    | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANGI | E ORGANICS   |          |             |        | Analyst: DGH         |
| Diesel Range Organics (DRO)      | ND           | 9.9      | mg/Kg       | 1      | 7/6/2023 4:57:53 PM  |
| Motor Oil Range Organics (MRO)   | ND           | 49       | mg/Kg       | 1      | 7/6/2023 4:57:53 PM  |
| Surr: DNOP                       | 91.4         | 69-147   | %Rec        | 1      | 7/6/2023 4:57:53 PM  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |             |        | Analyst: KMN         |
| Gasoline Range Organics (GRO)    | ND           | 4.9      | mg/Kg       | 1      | 7/7/2023 11:57:00 PM |
| Surr: BFB                        | 95.5         | 15-244   | %Rec        | 1      | 7/7/2023 11:57:00 PM |
| EPA METHOD 8021B: VOLATILES      |              |          |             |        | Analyst: KMN         |
| Benzene                          | ND           | 0.024    | mg/Kg       | 1      | 7/7/2023 11:57:00 PM |
| Toluene                          | ND           | 0.049    | mg/Kg       | 1      | 7/7/2023 11:57:00 PM |
| Ethylbenzene                     | ND           | 0.049    | mg/Kg       | 1      | 7/7/2023 11:57:00 PM |
| Xylenes, Total                   | ND           | 0.097    | mg/Kg       | 1      | 7/7/2023 11:57:00 PM |
| Surr: 4-Bromofluorobenzene       | 91.4         | 39.1-146 | %Rec        | 1      | 7/7/2023 11:57:00 PM |
| EPA METHOD 300.0: ANIONS         |              |          |             |        | Analyst: JTT         |
| Chloride                         | 21000        | 1200     | mg/Kg       | 400    | 7/7/2023 7:46:06 PM  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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Spud 16 State 010

Project:

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307083 Date Reported: 7/17/2023

Client Sample ID: BH23-21 2' Collection Date: 6/30/2023 9:20:00 AM **Received Date:** 7/6/2023 7:35:00 AM

| M                  | 23 7:35:00 AN  | 7/6/202          | ed Date:                        | Receiv           | F                                   | latrix: SOIL           | Ma          | 2307083-006                          | ): 2                                      | Lab ID:  |
|--------------------|--|------------------|---------------------------------|------------------|-------------------------------------|------------------------|-------------|--------------------------------------|---|--|
| lyzed              | Date Analy   | DF               | Units                           | Qual             | RL                                  | Result                 |             |                                      | es  | Analyses                                       |
| nalyst: DGH        | Ana  |                  |                                 |                  |                                     | RGANICS                | EL RANGE OR | HOD 8015M/D: DIESEL                  | /ETH                                      | EPA ME   |
| 5:08:52 PM         | 7/6/2023 5:0   | 1                | mg/Kg                           | 9                | 9.9                                 | ND                     |             | ange Organics (DRO)                  | el Ran                                    | Diesel   |
| 5:08:52 PM         | 7/6/2023 5:0   | 1                | mg/Kg                           | 9                | 49                                  | ND                     |             | Range Organics (MRO)                 | r Oil F                                   | Motor C  |
| 5:08:52 PM         | 7/6/2023 5:0   | 1                | %Rec                            | 7                | 69-147                              | 83.0                   |             | NOP                                  | Irr: DN                                   | Surr   |
| nalyst: <b>KMN</b> | Ana  |                  |                                 |                  |                                     |                        | INE RANGE   | HOD 8015D: GASOLINE                  | /ETH                                      | EPA ME   |
| 12:40:00 AM        | 7/8/2023 12  | 1                | mg/Kg                           | )                | 5.0                                 | ND                     |             | Range Organics (GRO)                 | line R                                    | Gasolir  |
| 12:40:00 AM        | 7/8/2023 12  | 1                | %Rec                            | 1                | 15-244                              | 96.7                   |             | \$FB                                 | ırr: BF                                   | Surr   |
| nalyst: <b>KMN</b> | Ana  |                  |                                 |                  |                                     |                        | LES         | HOD 8021B: VOLATILE                  | /ETH                                      | EPA ME   |
| 12:40:00 AM        | 7/8/2023 12  | 1                | mg/Kg                           | 5                | 0.025                               | ND                     |             |                                      | ene                                       | Benzer   |
| 12:40:00 AM        | 7/8/2023 12  | 1                | mg/Kg                           | )                | 0.050                               | ND                     |             |                                      | ene                                       | Toluen   |
| 12:40:00 AM        | 7/8/2023 12  | 1                | mg/Kg                           | )                | 0.050                               | ND                     |             | zene                                 | benze                                     | Ethylbe  |
| 12:40:00 AM        | 7/8/2023 12  | 1                | mg/Kg                           | 9                | 0.099                               | ND                     |             | Total                                | nes, To                                   | Xylenes  |
| 12:40:00 AM        | 7/8/2023 12  | 1                | %Rec                            | 6                | 39.1-146                            | 91.1                   |             | -Bromofluorobenzene                  | ırr: 4-E                                  | Surr   |
| nalyst: <b>JTT</b> | Ana  |                  |                                 |                  |                                     |                        |             | HOD 300.0: ANIONS                    | /ETH                                      | EPA ME   |
| 6:56:43 PM         | 7/7/2023 6:  | 100              | mg/Kg                           | )                | 300                                 | 6200                   |             |                                      | ide                                       | Chlorid  |
| 1<br>1<br>1        | 7/8/2023 1<br>7/8/2023 1<br>7/8/2023 1<br>7/8/2023 1<br>7/8/2023 1<br>7/8/2023 1 | 1<br>1<br>1<br>1 | mg/Kg<br>mg/Kg<br>mg/Kg<br>%Rec | )<br>)<br>)<br>3 | 0.050<br>0.050<br>0.099<br>39.1-146 | ND<br>ND<br>ND<br>91.1 | LES         | zene<br>Total<br>-Bromofluorobenzene | ene<br>ene<br>benze<br>nes, To<br>nr: 4-E | Benzer<br>Toluen<br>Ethylbe<br>Xylenes<br>Surr |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307083 Date Reported: 7/17/2023

Client Sample ID: BH23-21 4' Collection Date: 6/30/2023 9:25:00 AM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-007              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |          |     |                     |  |
|----------------------------------|--------------|------------------------------------|----------|-----|---------------------|--|
| Analyses                         | Result       | RL Qu                              | al Units | DF  | Date Analyzed       |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                    |          |     | Analyst: DGH        |  |
| Diesel Range Organics (DRO)      | ND           | 9.9                                | mg/Kg    | 1   | 7/6/2023 5:19:53 PM |  |
| Motor Oil Range Organics (MRO)   | ND           | 49                                 | mg/Kg    | 1   | 7/6/2023 5:19:53 PM |  |
| Surr: DNOP                       | 87.9         | 69-147                             | %Rec     | 1   | 7/6/2023 5:19:53 PM |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                    |          |     | Analyst: KMN        |  |
| Gasoline Range Organics (GRO)    | ND           | 5.0                                | mg/Kg    | 1   | 7/8/2023 1:02:00 AM |  |
| Surr: BFB                        | 93.8         | 15-244                             | %Rec     | 1   | 7/8/2023 1:02:00 AM |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |          |     | Analyst: KMN        |  |
| Benzene                          | ND           | 0.025                              | mg/Kg    | 1   | 7/8/2023 1:02:00 AM |  |
| Toluene                          | ND           | 0.050                              | mg/Kg    | 1   | 7/8/2023 1:02:00 AM |  |
| Ethylbenzene                     | ND           | 0.050                              | mg/Kg    | 1   | 7/8/2023 1:02:00 AM |  |
| Xylenes, Total                   | ND           | 0.099                              | mg/Kg    | 1   | 7/8/2023 1:02:00 AM |  |
| Surr: 4-Bromofluorobenzene       | 92.5         | 39.1-146                           | %Rec     | 1   | 7/8/2023 1:02:00 AM |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |          |     | Analyst: JTT        |  |
| Chloride                         | 7500         | 300                                | mg/Kg    | 100 | 7/7/2023 7:09:04 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307083

Date Reported: 7/17/2023

| Client Sample ID: BH23-22 0'          |  |  |  |  |  |  |  |
|---------------------------------------|--|--|--|--|--|--|--|
| Collection Date: 6/30/2023 9:30:00 AM |  |  |  |  |  |  |  |
| Received Date: 7/6/2023 7:35:00 AM    |  |  |  |  |  |  |  |

| Lab ID: 2307083-008              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |          |     |                     |  |
|----------------------------------|--------------|------------------------------------|----------|-----|---------------------|--|
| Analyses                         | Result       | RL Qu                              | al Units | DF  | Date Analyzed       |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                    |          |     | Analyst: DGH        |  |
| Diesel Range Organics (DRO)      | ND           | 9.7                                | mg/Kg    | 1   | 7/6/2023 5:30:54 PM |  |
| Motor Oil Range Organics (MRO)   | ND           | 48                                 | mg/Kg    | 1   | 7/6/2023 5:30:54 PM |  |
| Surr: DNOP                       | 85.6         | 69-147                             | %Rec     | 1   | 7/6/2023 5:30:54 PM |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                    |          |     | Analyst: KMN        |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9                                | mg/Kg    | 1   | 7/8/2023 1:24:00 AM |  |
| Surr: BFB                        | 91.0         | 15-244                             | %Rec     | 1   | 7/8/2023 1:24:00 AM |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |          |     | Analyst: KMN        |  |
| Benzene                          | ND           | 0.024                              | mg/Kg    | 1   | 7/8/2023 1:24:00 AM |  |
| Toluene                          | ND           | 0.049                              | mg/Kg    | 1   | 7/8/2023 1:24:00 AM |  |
| Ethylbenzene                     | ND           | 0.049                              | mg/Kg    | 1   | 7/8/2023 1:24:00 AM |  |
| Xylenes, Total                   | ND           | 0.097                              | mg/Kg    | 1   | 7/8/2023 1:24:00 AM |  |
| Surr: 4-Bromofluorobenzene       | 90.8         | 39.1-146                           | %Rec     | 1   | 7/8/2023 1:24:00 AM |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |          |     | Analyst: JTT        |  |
| Chloride                         | 11000        | 600                                | mg/Kg    | 200 | 7/7/2023 7:21:25 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023 Client Sample ID: BH23-22 2'

| <b>Project:</b>     | Spud 16 State 010       | Collection Date: 6/30/2023 9:35:00 AM     |          |          |    |                     |  |
|---------------------|-------------------------|---|----------|----------|----|---------------------|--|
| Lab ID: 2307083-009 | Matrix: SOIL            | <b>Received Date:</b> 7/6/2023 7:35:00 AM |          |          |    |                     |  |
| Analyses            |                         | Result                                    | RL Qu    | al Units | DF | Date Analyzed       |  |
| EPA ME              | THOD 8015M/D: DIESEL RA | NGE ORGANICS                              |          |          |    | Analyst: DGH        |  |
| Diesel R            | ange Organics (DRO)     | ND  | 9.2      | mg/Kg    | 1  | 7/6/2023 5:52:47 PM |  |
| Motor Oi            | I Range Organics (MRO)  | ND  | 46       | mg/Kg    | 1  | 7/6/2023 5:52:47 PM |  |
| Surr: I             | DNOP                    | 85.1                                      | 69-147   | %Rec     | 1  | 7/6/2023 5:52:47 PM |  |
| EPA ME              | THOD 8015D: GASOLINE R  | ANGE                                      |          |          |    | Analyst: KMN        |  |
| Gasoline            | Range Organics (GRO)    | ND  | 5.0      | mg/Kg    | 1  | 7/8/2023 1:45:00 AM |  |
| Surr: E             | BFB                     | 95.5                                      | 15-244   | %Rec     | 1  | 7/8/2023 1:45:00 AM |  |
| EPA ME              | THOD 8021B: VOLATILES   |   |          |          |    | Analyst: KMN        |  |
| Benzene             | 9                       | ND  | 0.025    | mg/Kg    | 1  | 7/8/2023 1:45:00 AM |  |
| Toluene             |                         | ND  | 0.050    | mg/Kg    | 1  | 7/8/2023 1:45:00 AM |  |
| Ethylben            | zene                    | ND  | 0.050    | mg/Kg    | 1  | 7/8/2023 1:45:00 AM |  |
| Xylenes,            | Total                   | ND  | 0.099    | mg/Kg    | 1  | 7/8/2023 1:45:00 AM |  |
| Surr: 4             | 4-Bromofluorobenzene    | 92.4                                      | 39.1-146 | %Rec     | 1  | 7/8/2023 1:45:00 AM |  |
| EPA ME              | THOD 300.0: ANIONS      |   |          |          |    | Analyst: <b>JTT</b> |  |
| Chloride            |                         | 3400                                      | 150      | mg/Kg    | 50 | 7/7/2023 6:07:19 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307083 Date Reported: 7/17/2023

Client Sample ID: BH23-22 4' Collection Date: 6/30/2023 9:40:00 AM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-010              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |          |    |                     |  |
|----------------------------------|--------------|------------------------------------|----------|----|---------------------|--|
| Analyses                         | Result       | RL Qu                              | al Units | DF | Date Analyzed       |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                    |          |    | Analyst: DGH        |  |
| Diesel Range Organics (DRO)      | ND           | 9.7                                | mg/Kg    | 1  | 7/6/2023 6:03:53 PM |  |
| Motor Oil Range Organics (MRO)   | ND           | 49                                 | mg/Kg    | 1  | 7/6/2023 6:03:53 PM |  |
| Surr: DNOP                       | 85.8         | 69-147                             | %Rec     | 1  | 7/6/2023 6:03:53 PM |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                    |          |    | Analyst: KMN        |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9                                | mg/Kg    | 1  | 7/8/2023 2:07:00 AM |  |
| Surr: BFB                        | 99.9         | 15-244                             | %Rec     | 1  | 7/8/2023 2:07:00 AM |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |          |    | Analyst: KMN        |  |
| Benzene                          | ND           | 0.025                              | mg/Kg    | 1  | 7/8/2023 2:07:00 AM |  |
| Toluene                          | ND           | 0.049                              | mg/Kg    | 1  | 7/8/2023 2:07:00 AM |  |
| Ethylbenzene                     | ND           | 0.049                              | mg/Kg    | 1  | 7/8/2023 2:07:00 AM |  |
| Xylenes, Total                   | ND           | 0.099                              | mg/Kg    | 1  | 7/8/2023 2:07:00 AM |  |
| Surr: 4-Bromofluorobenzene       | 93.0         | 39.1-146                           | %Rec     | 1  | 7/8/2023 2:07:00 AM |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |          |    | Analyst: JTT        |  |
| Chloride                         | 5100         | 150                                | mg/Kg    | 50 | 7/7/2023 6:19:40 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 10 of 35

Spud 16 State 010

Project:

Analytical Report Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-23 0' Collection Date: 6/30/2023 9:41:00 AM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-011              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |       |     |                     |  |
|----------------------------------|--------------|------------------------------------|-------|-----|---------------------|--|
| Analyses                         | Result       | RL Qual Units                      |       | DF  | Date Analyzed       |  |
| EPA METHOD 8015M/D: DIESEL RANGI | EORGANICS    |                                    |       |     | Analyst: DGH        |  |
| Diesel Range Organics (DRO)      | ND           | 9.5                                | mg/Kg | 1   | 7/6/2023 6:14:59 PM |  |
| Motor Oil Range Organics (MRO)   | ND           | 48                                 | mg/Kg | 1   | 7/6/2023 6:14:59 PM |  |
| Surr: DNOP                       | 86.3         | 69-147                             | %Rec  | 1   | 7/6/2023 6:14:59 PM |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                    |       |     | Analyst: KMN        |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9                                | mg/Kg | 1   | 7/8/2023 2:29:00 AM |  |
| Surr: BFB                        | 98.4         | 15-244                             | %Rec  | 1   | 7/8/2023 2:29:00 AM |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |       |     | Analyst: KMN        |  |
| Benzene                          | ND           | 0.025                              | mg/Kg | 1   | 7/8/2023 2:29:00 AM |  |
| Toluene                          | ND           | 0.049                              | mg/Kg | 1   | 7/8/2023 2:29:00 AM |  |
| Ethylbenzene                     | ND           | 0.049                              | mg/Kg | 1   | 7/8/2023 2:29:00 AM |  |
| Xylenes, Total                   | ND           | 0.098                              | mg/Kg | 1   | 7/8/2023 2:29:00 AM |  |
| Surr: 4-Bromofluorobenzene       | 93.2         | 39.1-146                           | %Rec  | 1   | 7/8/2023 2:29:00 AM |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |       |     | Analyst: JTT        |  |
| Chloride                         | 11000        | 600                                | mg/Kg | 200 | 7/7/2023 7:33:45 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- RL Rep

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Spud 16 State 010

Project:

Analytical Report Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-23 2' Collection Date: 6/30/2023 9:42:00 AM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-012              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |          |    |                     |  |
|----------------------------------|--------------|------------------------------------|----------|----|---------------------|--|
| Analyses                         | Result       | RL Qu                              | al Units | DF | Date Analyzed       |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                    |          |    | Analyst: DGH        |  |
| Diesel Range Organics (DRO)      | ND           | 9.8                                | mg/Kg    | 1  | 7/6/2023 6:26:04 PM |  |
| Motor Oil Range Organics (MRO)   | ND           | 49                                 | mg/Kg    | 1  | 7/6/2023 6:26:04 PM |  |
| Surr: DNOP                       | 88.2         | 69-147                             | %Rec     | 1  | 7/6/2023 6:26:04 PM |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                    |          |    | Analyst: KMN        |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9                                | mg/Kg    | 1  | 7/8/2023 2:51:00 AM |  |
| Surr: BFB                        | 92.9         | 15-244                             | %Rec     | 1  | 7/8/2023 2:51:00 AM |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |          |    | Analyst: KMN        |  |
| Benzene                          | ND           | 0.025                              | mg/Kg    | 1  | 7/8/2023 2:51:00 AM |  |
| Toluene                          | ND           | 0.049                              | mg/Kg    | 1  | 7/8/2023 2:51:00 AM |  |
| Ethylbenzene                     | ND           | 0.049                              | mg/Kg    | 1  | 7/8/2023 2:51:00 AM |  |
| Xylenes, Total                   | ND           | 0.098                              | mg/Kg    | 1  | 7/8/2023 2:51:00 AM |  |
| Surr: 4-Bromofluorobenzene       | 92.5         | 39.1-146                           | %Rec     | 1  | 7/8/2023 2:51:00 AM |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |          |    | Analyst: JTT        |  |
| Chloride                         | 5200         | 150                                | mg/Kg    | 50 | 7/7/2023 6:32:01 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Project: Spud 16 State 010

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307083 Date Reported: 7/17/2023

Client Sample ID: BH23-24 0' Collection Date: 6/30/2023 9:45:00 AM

| Lab ID: 2307083-013              | Matrix: SOIL | <b>Received Date:</b> 7/6/2023 7:35:00 AM |               |    |                       |  |
|----------------------------------|--------------|---|---------------|----|-----------------------|--|
| Analyses                         | Result       | RL Qu                                     | RL Qual Units |    | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |   |               |    | Analyst: DGH          |  |
| Diesel Range Organics (DRO)      | ND           | 9.8                                       | mg/Kg         | 1  | 7/7/2023 5:06:54 PM   |  |
| Motor Oil Range Organics (MRO)   | ND           | 49  | mg/Kg         | 1  | 7/7/2023 5:06:54 PM   |  |
| Surr: DNOP                       | 94.8         | 69-147                                    | %Rec          | 1  | 7/7/2023 5:06:54 PM   |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |   |               |    | Analyst: KMN          |  |
| Gasoline Range Organics (GRO)    | ND           | 4.7                                       | mg/Kg         | 1  | 7/10/2023 10:59:00 AM |  |
| Surr: BFB                        | 93.4         | 15-244                                    | %Rec          | 1  | 7/10/2023 10:59:00 AM |  |
| EPA METHOD 8021B: VOLATILES      |              |   |               |    | Analyst: KMN          |  |
| Benzene                          | ND           | 0.024                                     | mg/Kg         | 1  | 7/10/2023 10:59:00 AM |  |
| Toluene                          | ND           | 0.047                                     | mg/Kg         | 1  | 7/10/2023 10:59:00 AM |  |
| Ethylbenzene                     | ND           | 0.047                                     | mg/Kg         | 1  | 7/10/2023 10:59:00 AM |  |
| Xylenes, Total                   | ND           | 0.094                                     | mg/Kg         | 1  | 7/10/2023 10:59:00 AM |  |
| Surr: 4-Bromofluorobenzene       | 94.0         | 39.1-146                                  | %Rec          | 1  | 7/10/2023 10:59:00 AM |  |
| EPA METHOD 300.0: ANIONS         |              |   |               |    | Analyst: RBC          |  |
| Chloride                         | 2800         | 150                                       | mg/Kg         | 50 | 7/11/2023 10:14:12 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

**Analytical Report** Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-24 2' Collection Date: 6/30/2023 9:48:00 AM Dessived Date: 7/6/2022 7:25:00 AM

| Lab ID: 2307083-014              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |          |    |                       |  |
|----------------------------------|--------------|------------------------------------|----------|----|-----------------------|--|
| Analyses                         | Result       | RL Qu                              | al Units | DF | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                    |          |    | Analyst: DGH          |  |
| Diesel Range Organics (DRO)      | ND           | 9.6                                | mg/Kg    | 1  | 7/7/2023 5:25:42 PM   |  |
| Motor Oil Range Organics (MRO)   | ND           | 48                                 | mg/Kg    | 1  | 7/7/2023 5:25:42 PM   |  |
| Surr: DNOP                       | 94.7         | 69-147                             | %Rec     | 1  | 7/7/2023 5:25:42 PM   |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                    |          |    | Analyst: KMN          |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9                                | mg/Kg    | 1  | 7/10/2023 12:04:00 PM |  |
| Surr: BFB                        | 94.4         | 15-244                             | %Rec     | 1  | 7/10/2023 12:04:00 PM |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |          |    | Analyst: KMN          |  |
| Benzene                          | ND           | 0.025                              | mg/Kg    | 1  | 7/10/2023 12:04:00 PM |  |
| Toluene                          | ND           | 0.049                              | mg/Kg    | 1  | 7/10/2023 12:04:00 PM |  |
| Ethylbenzene                     | ND           | 0.049                              | mg/Kg    | 1  | 7/10/2023 12:04:00 PM |  |
| Xylenes, Total                   | ND           | 0.099                              | mg/Kg    | 1  | 7/10/2023 12:04:00 PM |  |
| Surr: 4-Bromofluorobenzene       | 95.3         | 39.1-146                           | %Rec     | 1  | 7/10/2023 12:04:00 PM |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |          |    | Analyst: JTT          |  |
| Chloride                         | 2000         | 60                                 | mg/Kg    | 20 | 7/7/2023 10:14:16 PM  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307083

Date Reported: 7/17/2023

| Client Sample ID: BH23-25 0'          |  |  |  |  |  |  |  |
|---------------------------------------|--|--|--|--|--|--|--|
| Collection Date: 6/30/2023 9:50:00 AM |  |  |  |  |  |  |  |
| Received Date: 7/6/2023 7:35:00 AM    |  |  |  |  |  |  |  |

| Lab ID: 2307083-015              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |          |    |                      |  |
|----------------------------------|--------------|------------------------------------|----------|----|----------------------|--|
| Analyses                         | Result       | RL Qu                              | al Units | DF | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                    |          |    | Analyst: DGH         |  |
| Diesel Range Organics (DRO)      | 11           | 9.7                                | mg/Kg    | 1  | 7/7/2023 5:45:04 PM  |  |
| Motor Oil Range Organics (MRO)   | ND           | 48                                 | mg/Kg    | 1  | 7/7/2023 5:45:04 PM  |  |
| Surr: DNOP                       | 101          | 69-147                             | %Rec     | 1  | 7/7/2023 5:45:04 PM  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                    |          |    | Analyst: KMN         |  |
| Gasoline Range Organics (GRO)    | ND           | 4.6                                | mg/Kg    | 1  | 7/10/2023 1:09:00 PM |  |
| Surr: BFB                        | 94.9         | 15-244                             | %Rec     | 1  | 7/10/2023 1:09:00 PM |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |          |    | Analyst: KMN         |  |
| Benzene                          | ND           | 0.023                              | mg/Kg    | 1  | 7/10/2023 1:09:00 PM |  |
| Toluene                          | ND           | 0.046                              | mg/Kg    | 1  | 7/10/2023 1:09:00 PM |  |
| Ethylbenzene                     | ND           | 0.046                              | mg/Kg    | 1  | 7/10/2023 1:09:00 PM |  |
| Xylenes, Total                   | ND           | 0.091                              | mg/Kg    | 1  | 7/10/2023 1:09:00 PM |  |
| Surr: 4-Bromofluorobenzene       | 95.2         | 39.1-146                           | %Rec     | 1  | 7/10/2023 1:09:00 PM |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |          |    | Analyst: JTT         |  |
| Chloride                         | 1600         | 60                                 | mg/Kg    | 20 | 7/7/2023 11:15:59 PM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Project:** Spud 16 State 010

Analytical Report Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-25 2' Collection Date: 6/30/2023 9:56:00 AM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-016              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |            |    |                       |  |
|----------------------------------|--------------|------------------------------------|------------|----|-----------------------|--|
| Analyses                         | Result       | RL Q                               | Qual Units | DF | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                    |            |    | Analyst: DGH          |  |
| Diesel Range Organics (DRO)      | 1900         | 99                                 | mg/Kg      | 10 | 7/7/2023 3:10:07 PM   |  |
| Motor Oil Range Organics (MRO)   | 4400         | 490                                | mg/Kg      | 10 | 7/7/2023 3:10:07 PM   |  |
| Surr: DNOP                       | 0            | 69-147                             | S %Rec     | 10 | 7/7/2023 3:10:07 PM   |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                    |            |    | Analyst: KMN          |  |
| Gasoline Range Organics (GRO)    | ND           | 5.0                                | mg/Kg      | 1  | 7/10/2023 1:31:00 PM  |  |
| Surr: BFB                        | 93.5         | 15-244                             | %Rec       | 1  | 7/10/2023 1:31:00 PM  |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |            |    | Analyst: KMN          |  |
| Benzene                          | ND           | 0.025                              | mg/Kg      | 1  | 7/10/2023 1:31:00 PM  |  |
| Toluene                          | ND           | 0.050                              | mg/Kg      | 1  | 7/10/2023 1:31:00 PM  |  |
| Ethylbenzene                     | ND           | 0.050                              | mg/Kg      | 1  | 7/10/2023 1:31:00 PM  |  |
| Xylenes, Total                   | ND           | 0.099                              | mg/Kg      | 1  | 7/10/2023 1:31:00 PM  |  |
| Surr: 4-Bromofluorobenzene       | 92.8         | 39.1-146                           | %Rec       | 1  | 7/10/2023 1:31:00 PM  |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |            |    | Analyst: RBC          |  |
| Chloride                         | 2600         | 150                                | mg/Kg      | 50 | 7/11/2023 10:26:37 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307083

Date Reported: 7/17/2023

Client Sample ID: BH23-26 0' Collection Date: 6/30/2023 9:58:00 AM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-017              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |          |     |                       |  |
|----------------------------------|--------------|------------------------------------|----------|-----|-----------------------|--|
| Analyses                         | Result       | RL Qu                              | al Units | DF  | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                    |          |     | Analyst: <b>DGH</b>   |  |
| Diesel Range Organics (DRO)      | ND           | 9.6                                | mg/Kg    | 1   | 7/7/2023 6:04:00 PM   |  |
| Motor Oil Range Organics (MRO)   | ND           | 48                                 | mg/Kg    | 1   | 7/7/2023 6:04:00 PM   |  |
| Surr: DNOP                       | 93.5         | 69-147                             | %Rec     | 1   | 7/7/2023 6:04:00 PM   |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                    |          |     | Analyst: KMN          |  |
| Gasoline Range Organics (GRO)    | ND           | 4.7                                | mg/Kg    | 1   | 7/10/2023 1:53:00 PM  |  |
| Surr: BFB                        | 93.9         | 15-244                             | %Rec     | 1   | 7/10/2023 1:53:00 PM  |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |          |     | Analyst: KMN          |  |
| Benzene                          | ND           | 0.024                              | mg/Kg    | 1   | 7/10/2023 1:53:00 PM  |  |
| Toluene                          | ND           | 0.047                              | mg/Kg    | 1   | 7/10/2023 1:53:00 PM  |  |
| Ethylbenzene                     | ND           | 0.047                              | mg/Kg    | 1   | 7/10/2023 1:53:00 PM  |  |
| Xylenes, Total                   | ND           | 0.095                              | mg/Kg    | 1   | 7/10/2023 1:53:00 PM  |  |
| Surr: 4-Bromofluorobenzene       | 95.1         | 39.1-146                           | %Rec     | 1   | 7/10/2023 1:53:00 PM  |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |          |     | Analyst: RBC          |  |
| Chloride                         | 9000         | 300                                | mg/Kg    | 100 | 7/11/2023 11:28:38 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

Analytical Report Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-26 2' Collection Date: 6/30/2023 10:00:00 AM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-018              | Matrix: SOIL | Rece     | <b>Received Date:</b> 7/6/2023 7:35:00 AM |    |                       |  |  |
|----------------------------------|--------------|----------|---|----|-----------------------|--|--|
| Analyses                         | Result       | RL Qu    | al Units                                  | DF | Date Analyzed         |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |   |    | Analyst: DGH          |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.6      | mg/Kg                                     | 1  | 7/7/2023 6:22:54 PM   |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 48       | mg/Kg                                     | 1  | 7/7/2023 6:22:54 PM   |  |  |
| Surr: DNOP                       | 92.1         | 69-147   | %Rec                                      | 1  | 7/7/2023 6:22:54 PM   |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |   |    | Analyst: KMN          |  |  |
| Gasoline Range Organics (GRO)    | ND           | 4.8      | mg/Kg                                     | 1  | 7/10/2023 2:15:00 PM  |  |  |
| Surr: BFB                        | 98.4         | 15-244   | %Rec                                      | 1  | 7/10/2023 2:15:00 PM  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |          |   |    | Analyst: KMN          |  |  |
| Benzene                          | ND           | 0.024    | mg/Kg                                     | 1  | 7/10/2023 2:15:00 PM  |  |  |
| Toluene                          | ND           | 0.048    | mg/Kg                                     | 1  | 7/10/2023 2:15:00 PM  |  |  |
| Ethylbenzene                     | ND           | 0.048    | mg/Kg                                     | 1  | 7/10/2023 2:15:00 PM  |  |  |
| Xylenes, Total                   | ND           | 0.096    | mg/Kg                                     | 1  | 7/10/2023 2:15:00 PM  |  |  |
| Surr: 4-Bromofluorobenzene       | 96.3         | 39.1-146 | %Rec                                      | 1  | 7/10/2023 2:15:00 PM  |  |  |
| EPA METHOD 300.0: ANIONS         |              |          |   |    | Analyst: RBC          |  |  |
| Chloride                         | 3500         | 150      | mg/Kg                                     | 50 | 7/11/2023 10:39:01 AM |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- RL Repo

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Spud 16 State 010

Project:

**Analytical Report** Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-27 0' Collection Date: 6/30/2023 12:05:00 PM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-019              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |          |     |                       |  |
|----------------------------------|--------------|------------------------------------|----------|-----|-----------------------|--|
| Analyses                         | Result       | RL Qu                              | al Units | DF  | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                    |          |     | Analyst: DGH          |  |
| Diesel Range Organics (DRO)      | ND           | 10                                 | mg/Kg    | 1   | 7/7/2023 6:41:37 PM   |  |
| Motor Oil Range Organics (MRO)   | ND           | 50                                 | mg/Kg    | 1   | 7/7/2023 6:41:37 PM   |  |
| Surr: DNOP                       | 94.4         | 69-147                             | %Rec     | 1   | 7/7/2023 6:41:37 PM   |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |                                    |          |     | Analyst: KMN          |  |
| Gasoline Range Organics (GRO)    | ND           | 4.6                                | mg/Kg    | 1   | 7/10/2023 2:37:00 PM  |  |
| Surr: BFB                        | 95.4         | 15-244                             | %Rec     | 1   | 7/10/2023 2:37:00 PM  |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |          |     | Analyst: KMN          |  |
| Benzene                          | ND           | 0.023                              | mg/Kg    | 1   | 7/10/2023 2:37:00 PM  |  |
| Toluene                          | ND           | 0.046                              | mg/Kg    | 1   | 7/10/2023 2:37:00 PM  |  |
| Ethylbenzene                     | ND           | 0.046                              | mg/Kg    | 1   | 7/10/2023 2:37:00 PM  |  |
| Xylenes, Total                   | ND           | 0.092                              | mg/Kg    | 1   | 7/10/2023 2:37:00 PM  |  |
| Surr: 4-Bromofluorobenzene       | 94.9         | 39.1-146                           | %Rec     | 1   | 7/10/2023 2:37:00 PM  |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |          |     | Analyst: RBC          |  |
| Chloride                         | 9800         | 600                                | mg/Kg    | 200 | 7/11/2023 11:41:02 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**Project:** Lab ID:

Spud 16 State 010

2307083-020

**Analytical Report** Lab Order 2307083

Date Reported: 7/17/2023

Client Sample ID: BH23-27 2' Collection Date: 6/30/2023 12:08:00 PM Received Date: 7/6/2023 7:35:00 AM

| <b>Eub ID :</b> 2507005 020      | Man Soll |          |          |    |                       |  |
|----------------------------------|----------|----------|----------|----|-----------------------|--|
| Analyses                         | Result   | RL Qu    | al Units | DF | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS |          |          |    | Analyst: DGH          |  |
| Diesel Range Organics (DRO)      | ND       | 9.5      | mg/Kg    | 1  | 7/7/2023 7:00:14 PM   |  |
| Motor Oil Range Organics (MRO)   | ND       | 48       | mg/Kg    | 1  | 7/7/2023 7:00:14 PM   |  |
| Surr: DNOP                       | 92.3     | 69-147   | %Rec     | 1  | 7/7/2023 7:00:14 PM   |  |
| EPA METHOD 8015D: GASOLINE RANGE | E        |          |          |    | Analyst: KMN          |  |
| Gasoline Range Organics (GRO)    | ND       | 4.9      | mg/Kg    | 1  | 7/10/2023 2:58:00 PM  |  |
| Surr: BFB                        | 96.4     | 15-244   | %Rec     | 1  | 7/10/2023 2:58:00 PM  |  |
| EPA METHOD 8021B: VOLATILES      |          |          |          |    | Analyst: KMN          |  |
| Benzene                          | ND       | 0.024    | mg/Kg    | 1  | 7/10/2023 2:58:00 PM  |  |
| Toluene                          | ND       | 0.049    | mg/Kg    | 1  | 7/10/2023 2:58:00 PM  |  |
| Ethylbenzene                     | ND       | 0.049    | mg/Kg    | 1  | 7/10/2023 2:58:00 PM  |  |
| Xylenes, Total                   | ND       | 0.098    | mg/Kg    | 1  | 7/10/2023 2:58:00 PM  |  |
| Surr: 4-Bromofluorobenzene       | 96.7     | 39.1-146 | %Rec     | 1  | 7/10/2023 2:58:00 PM  |  |
| EPA METHOD 300.0: ANIONS         |          |          |          |    | Analyst: RBC          |  |
| Chloride                         | 3300     | 150      | mg/Kg    | 50 | 7/11/2023 10:51:25 AM |  |
|                                  |          |          |          |    |                       |  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

**Analytical Report** Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-28 0' Collection Date: 6/30/2023 12:10:00 PM wed Data: 7/6/2022 7.25.00 AM ъ

| Lab ID: 2307083-021              | Matrix: SOIL | Rece     | Received Date: 7/6/2023 7:35:00 AM |    |                       |  |  |
|----------------------------------|--------------|----------|------------------------------------|----|-----------------------|--|--|
| Analyses                         | Result       | RL Qu    | al Units                           | DF | Date Analyzed         |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |          |                                    |    | Analyst: DGH          |  |  |
| Diesel Range Organics (DRO)      | 12           | 10       | mg/Kg                              | 1  | 7/7/2023 7:18:51 PM   |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 50       | mg/Kg                              | 1  | 7/7/2023 7:18:51 PM   |  |  |
| Surr: DNOP                       | 93.6         | 69-147   | %Rec                               | 1  | 7/7/2023 7:18:51 PM   |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |          |                                    |    | Analyst: KMN          |  |  |
| Gasoline Range Organics (GRO)    | ND           | 4.7      | mg/Kg                              | 1  | 7/10/2023 3:20:00 PM  |  |  |
| Surr: BFB                        | 95.2         | 15-244   | %Rec                               | 1  | 7/10/2023 3:20:00 PM  |  |  |
| EPA METHOD 8021B: VOLATILES      |              |          |                                    |    | Analyst: KMN          |  |  |
| Benzene                          | ND           | 0.024    | mg/Kg                              | 1  | 7/10/2023 3:20:00 PM  |  |  |
| Toluene                          | ND           | 0.047    | mg/Kg                              | 1  | 7/10/2023 3:20:00 PM  |  |  |
| Ethylbenzene                     | ND           | 0.047    | mg/Kg                              | 1  | 7/10/2023 3:20:00 PM  |  |  |
| Xylenes, Total                   | ND           | 0.094    | mg/Kg                              | 1  | 7/10/2023 3:20:00 PM  |  |  |
| Surr: 4-Bromofluorobenzene       | 95.3         | 39.1-146 | %Rec                               | 1  | 7/10/2023 3:20:00 PM  |  |  |
| EPA METHOD 300.0: ANIONS         |              |          |                                    |    | Analyst: RBC          |  |  |
| Chloride                         | 5000         | 150      | mg/Kg                              | 50 | 7/11/2023 11:03:49 AM |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

**Analytical Report** Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BH23-28 2' Collection Date: 6/30/2023 12:13:00 PM **Received Date:** 7/6/2023 7:35:00 AM

| Lab ID: 2307083-022            | Matrix: SOIL  | Received Date: 7/6/2023 7:35:00 AM |          |    |                       |  |
|--------------------------------|---------------|------------------------------------|----------|----|-----------------------|--|
| Analyses                       | Result        | RL Qu                              | al Units | DF | Date Analyzed         |  |
| EPA METHOD 8015M/D: DIESEL R   | ANGE ORGANICS |                                    |          |    | Analyst: DGH          |  |
| Diesel Range Organics (DRO)    | ND            | 9.1                                | mg/Kg    | 1  | 7/7/2023 7:37:22 PM   |  |
| Motor Oil Range Organics (MRO) | ND            | 46                                 | mg/Kg    | 1  | 7/7/2023 7:37:22 PM   |  |
| Surr: DNOP                     | 94.1          | 69-147                             | %Rec     | 1  | 7/7/2023 7:37:22 PM   |  |
| EPA METHOD 8015D: GASOLINE F   | RANGE         |                                    |          |    | Analyst: KMN          |  |
| Gasoline Range Organics (GRO)  | ND            | 4.7                                | mg/Kg    | 1  | 7/10/2023 3:42:00 PM  |  |
| Surr: BFB                      | 98.3          | 15-244                             | %Rec     | 1  | 7/10/2023 3:42:00 PM  |  |
| EPA METHOD 8021B: VOLATILES    |               |                                    |          |    | Analyst: KMN          |  |
| Benzene                        | ND            | 0.023                              | mg/Kg    | 1  | 7/10/2023 3:42:00 PM  |  |
| Toluene                        | ND            | 0.047                              | mg/Kg    | 1  | 7/10/2023 3:42:00 PM  |  |
| Ethylbenzene                   | ND            | 0.047                              | mg/Kg    | 1  | 7/10/2023 3:42:00 PM  |  |
| Xylenes, Total                 | ND            | 0.093                              | mg/Kg    | 1  | 7/10/2023 3:42:00 PM  |  |
| Surr: 4-Bromofluorobenzene     | 97.2          | 39.1-146                           | %Rec     | 1  | 7/10/2023 3:42:00 PM  |  |
| EPA METHOD 300.0: ANIONS       |               |                                    |          |    | Analyst: RBC          |  |
| Chloride                       | 2500          | 150                                | mg/Kg    | 50 | 7/11/2023 11:16:13 AM |  |
|                                |               |                                    |          |    |                       |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**Project:** Lab ID:

Spud 16 State 010

2307083-023

**Analytical Report** Lab Order 2307083

Date Reported: 7/17/2023

Client Sample ID: BG23-03 2' Collection Date: 6/30/2023 10:25:00 AM Received Date: 7/6/2023 7:35:00 AM

| <b>Eub ID:</b> 2507005 025       | Muu M. Soll      | necc     |          |    |                      |  |
|----------------------------------|------------------|----------|----------|----|----------------------|--|
| Analyses                         | Result RL Qual U |          | al Units | DF | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS         |          |          |    | Analyst: DGH         |  |
| Diesel Range Organics (DRO)      | ND               | 9.5      | mg/Kg    | 1  | 7/7/2023 7:55:55 PM  |  |
| Motor Oil Range Organics (MRO)   | ND               | 47       | mg/Kg    | 1  | 7/7/2023 7:55:55 PM  |  |
| Surr: DNOP                       | 93.4             | 69-147   | %Rec     | 1  | 7/7/2023 7:55:55 PM  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E                |          |          |    | Analyst: KMN         |  |
| Gasoline Range Organics (GRO)    | ND               | 5.0      | mg/Kg    | 1  | 7/10/2023 4:26:00 PM |  |
| Surr: BFB                        | 98.1             | 15-244   | %Rec     | 1  | 7/10/2023 4:26:00 PM |  |
| EPA METHOD 8021B: VOLATILES      |                  |          |          |    | Analyst: KMN         |  |
| Benzene                          | ND               | 0.025    | mg/Kg    | 1  | 7/10/2023 4:26:00 PM |  |
| Toluene                          | ND               | 0.050    | mg/Kg    | 1  | 7/10/2023 4:26:00 PM |  |
| Ethylbenzene                     | ND               | 0.050    | mg/Kg    | 1  | 7/10/2023 4:26:00 PM |  |
| Xylenes, Total                   | ND               | 0.099    | mg/Kg    | 1  | 7/10/2023 4:26:00 PM |  |
| Surr: 4-Bromofluorobenzene       | 97.3             | 39.1-146 | %Rec     | 1  | 7/10/2023 4:26:00 PM |  |
| EPA METHOD 300.0: ANIONS         |                  |          |          |    | Analyst: SNS         |  |
| Chloride                         | 4900             | 150      | mg/Kg    | 50 | 7/14/2023 2:05:34 AM |  |
|                                  |                  |          |          |    |                      |  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Spud 16 State 010

Project:

**Analytical Report** Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BG23-03 4' Collection Date: 6/30/2023 10:30:00 AM **Received Date:** 7/6/2023 7:35:00 AM

| Lab ID: 2307083-024              | Matrix: SOIL | <b>Received Date:</b> 7/6/2023 7:35:00 AM |          |     |                      |  |
|----------------------------------|--------------|---|----------|-----|----------------------|--|
| Analyses                         | Result       | RL Qu                                     | al Units | DF  | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANGE | EORGANICS    |   |          |     | Analyst: DGH         |  |
| Diesel Range Organics (DRO)      | ND           | 9.9                                       | mg/Kg    | 1   | 7/7/2023 8:32:42 PM  |  |
| Motor Oil Range Organics (MRO)   | ND           | 49  | mg/Kg    | 1   | 7/7/2023 8:32:42 PM  |  |
| Surr: DNOP                       | 93.5         | 69-147                                    | %Rec     | 1   | 7/7/2023 8:32:42 PM  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |   |          |     | Analyst: KMN         |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9                                       | mg/Kg    | 1   | 7/10/2023 4:48:00 PM |  |
| Surr: BFB                        | 93.5         | 15-244                                    | %Rec     | 1   | 7/10/2023 4:48:00 PM |  |
| EPA METHOD 8021B: VOLATILES      |              |   |          |     | Analyst: KMN         |  |
| Benzene                          | ND           | 0.024                                     | mg/Kg    | 1   | 7/10/2023 4:48:00 PM |  |
| Toluene                          | ND           | 0.049                                     | mg/Kg    | 1   | 7/10/2023 4:48:00 PM |  |
| Ethylbenzene                     | ND           | 0.049                                     | mg/Kg    | 1   | 7/10/2023 4:48:00 PM |  |
| Xylenes, Total                   | ND           | 0.097                                     | mg/Kg    | 1   | 7/10/2023 4:48:00 PM |  |
| Surr: 4-Bromofluorobenzene       | 95.8         | 39.1-146                                  | %Rec     | 1   | 7/10/2023 4:48:00 PM |  |
| EPA METHOD 300.0: ANIONS         |              |   |          |     | Analyst: SNS         |  |
| Chloride                         | 5900         | 300                                       | mg/Kg    | 100 | 7/14/2023 2:17:59 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**Project:** Lab ID:

Spud 16 State 010

2307083-025

**Analytical Report** Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

| Client Sample ID: BG23-03 6'           |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Collection Date: 6/30/2023 10:35:00 AM |  |  |  |  |  |  |
| Received Date: 7/6/2023 7:35:00 AM     |  |  |  |  |  |  |

| Analyses                           | Result       | RL Q     | ual Units | DF  | Date Analyzed        |
|------------------------------------|--------------|----------|-----------|-----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE O | Analyst: DGH |          |           |     |                      |
| Diesel Range Organics (DRO)        | ND           | 9.8      | mg/Kg     | 1   | 7/7/2023 8:51:10 PM  |
| Motor Oil Range Organics (MRO)     | ND           | 49       | mg/Kg     | 1   | 7/7/2023 8:51:10 PM  |
| Surr: DNOP                         | 94.0         | 69-147   | %Rec      | 1   | 7/7/2023 8:51:10 PM  |
| EPA METHOD 8015D: GASOLINE RANGE   |              |          |           |     | Analyst: KMN         |
| Gasoline Range Organics (GRO)      | ND           | 4.6      | mg/Kg     | 1   | 7/10/2023 5:10:00 PM |
| Surr: BFB                          | 97.1         | 15-244   | %Rec      | 1   | 7/10/2023 5:10:00 PM |
| EPA METHOD 8021B: VOLATILES        |              |          |           |     | Analyst: KMN         |
| Benzene                            | ND           | 0.023    | mg/Kg     | 1   | 7/10/2023 5:10:00 PM |
| Toluene                            | ND           | 0.046    | mg/Kg     | 1   | 7/10/2023 5:10:00 PM |
| Ethylbenzene                       | ND           | 0.046    | mg/Kg     | 1   | 7/10/2023 5:10:00 PM |
| Xylenes, Total                     | ND           | 0.091    | mg/Kg     | 1   | 7/10/2023 5:10:00 PM |
| Surr: 4-Bromofluorobenzene         | 96.8         | 39.1-146 | %Rec      | 1   | 7/10/2023 5:10:00 PM |
| EPA METHOD 300.0: ANIONS           |              |          |           |     | Analyst: SNS         |
| Chloride                           | 8800         | 600      | mg/Kg     | 200 | 7/14/2023 2:30:24 AM |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Project:

Spud 16 State 010

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307083

Date Reported: 7/17/2023

| Client Sample ID: BG23-04 0'           |
|--|
| Collection Date: 6/30/2023 10:10:00 AM |
| Received Date: 7/6/2023 7:35:00 AM     |

| Lab ID: 2307083-026              | Matrix: SOIL | <b>Received Date:</b> 7/6/2023 7:35:00 AM |          |     |                      |  |  |
|----------------------------------|--------------|---|----------|-----|----------------------|--|--|
| Analyses                         | Result       | RL Qu                                     | al Units | DF  | Date Analyzed        |  |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |   |          |     | Analyst: DGH         |  |  |
| Diesel Range Organics (DRO)      | ND           | 9.8                                       | mg/Kg    | 1   | 7/7/2023 9:09:34 PM  |  |  |
| Motor Oil Range Organics (MRO)   | ND           | 49  | mg/Kg    | 1   | 7/7/2023 9:09:34 PM  |  |  |
| Surr: DNOP                       | 95.2         | 69-147                                    | %Rec     | 1   | 7/7/2023 9:09:34 PM  |  |  |
| EPA METHOD 8015D: GASOLINE RANG  | E            |   |          |     | Analyst: <b>KMN</b>  |  |  |
| Gasoline Range Organics (GRO)    | ND           | 4.8                                       | mg/Kg    | 1   | 7/10/2023 5:32:00 PM |  |  |
| Surr: BFB                        | 99.7         | 15-244                                    | %Rec     | 1   | 7/10/2023 5:32:00 PM |  |  |
| EPA METHOD 8021B: VOLATILES      |              |   |          |     | Analyst: KMN         |  |  |
| Benzene                          | ND           | 0.024                                     | mg/Kg    | 1   | 7/10/2023 5:32:00 PM |  |  |
| Toluene                          | ND           | 0.048                                     | mg/Kg    | 1   | 7/10/2023 5:32:00 PM |  |  |
| Ethylbenzene                     | ND           | 0.048                                     | mg/Kg    | 1   | 7/10/2023 5:32:00 PM |  |  |
| Xylenes, Total                   | ND           | 0.097                                     | mg/Kg    | 1   | 7/10/2023 5:32:00 PM |  |  |
| Surr: 4-Bromofluorobenzene       | 96.5         | 39.1-146                                  | %Rec     | 1   | 7/10/2023 5:32:00 PM |  |  |
| EPA METHOD 300.0: ANIONS         |              |   |          |     | Analyst: SNS         |  |  |
| Chloride                         | 14000        | 600                                       | mg/Kg    | 200 | 7/14/2023 2:42:48 AM |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**Project:** 

Spud 16 State 010

**Analytical Report** Lab Order 2307083

Date Reported: 7/17/2023

Client Sample ID: BG23-04 2' Collection Date: 6/30/2023 10:15:00 AM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-027              | Matrix: SOIL | Received Date: 7/6/2023 7:35:00 AM |          |    |                      |  |
|----------------------------------|--------------|------------------------------------|----------|----|----------------------|--|
| Analyses                         | Result       | RL Qu                              | al Units | DF | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS     |                                    |          |    | Analyst: DGH         |  |
| Diesel Range Organics (DRO)      | ND           | 9.5                                | mg/Kg    | 1  | 7/7/2023 9:27:54 PM  |  |
| Motor Oil Range Organics (MRO)   | ND           | 48                                 | mg/Kg    | 1  | 7/7/2023 9:27:54 PM  |  |
| Surr: DNOP                       | 87.0         | 69-147                             | %Rec     | 1  | 7/7/2023 9:27:54 PM  |  |
| EPA METHOD 8015D: GASOLINE RANGI | E            |                                    |          |    | Analyst: KMN         |  |
| Gasoline Range Organics (GRO)    | ND           | 4.9                                | mg/Kg    | 1  | 7/10/2023 5:54:00 PM |  |
| Surr: BFB                        | 96.5         | 15-244                             | %Rec     | 1  | 7/10/2023 5:54:00 PM |  |
| EPA METHOD 8021B: VOLATILES      |              |                                    |          |    | Analyst: KMN         |  |
| Benzene                          | ND           | 0.025                              | mg/Kg    | 1  | 7/10/2023 5:54:00 PM |  |
| Toluene                          | ND           | 0.049                              | mg/Kg    | 1  | 7/10/2023 5:54:00 PM |  |
| Ethylbenzene                     | ND           | 0.049                              | mg/Kg    | 1  | 7/10/2023 5:54:00 PM |  |
| Xylenes, Total                   | ND           | 0.098                              | mg/Kg    | 1  | 7/10/2023 5:54:00 PM |  |
| Surr: 4-Bromofluorobenzene       | 96.0         | 39.1-146                           | %Rec     | 1  | 7/10/2023 5:54:00 PM |  |
| EPA METHOD 300.0: ANIONS         |              |                                    |          |    | Analyst: SNS         |  |
| Chloride                         | 3700         | 150                                | mg/Kg    | 50 | 7/14/2023 2:55:13 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**Project:** 

Spud 16 State 010

**Analytical Report** Lab Order 2307083

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/17/2023

Client Sample ID: BG23-04 4' Collection Date: 6/30/2023 10:20:00 AM Received Date: 7/6/2023 7:35:00 AM

| Lab ID: 2307083-028              | Matrix: SOIL                              | Received Date: 7/6/2023 7:35:00 AM |          |                     |                      |  |
|----------------------------------|---|------------------------------------|----------|---------------------|----------------------|--|
| Analyses                         | Result                                    | RL Qu                              | al Units | DF                  | Date Analyzed        |  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS                                  |                                    |          |                     | Analyst: DGH         |  |
| Diesel Range Organics (DRO)      | ND  | 9.4                                | mg/Kg    | 1                   | 7/7/2023 9:46:19 PM  |  |
| Motor Oil Range Organics (MRO)   | ND  | 47                                 | mg/Kg    | 1                   | 7/7/2023 9:46:19 PM  |  |
| Surr: DNOP                       | 91.8 69-147 %Rec<br>RANGE<br>ND 4.7 mg/Kg |                                    | 1        | 7/7/2023 9:46:19 PM |                      |  |
| EPA METHOD 8015D: GASOLINE RANG  | E   |                                    |          |                     | Analyst: KMN         |  |
| Gasoline Range Organics (GRO)    | ND  | 4.7                                | mg/Kg    | 1                   | 7/10/2023 6:16:00 PM |  |
| Surr: BFB                        | 97.3                                      | 15-244                             | %Rec     | 1                   | 7/10/2023 6:16:00 PM |  |
| EPA METHOD 8021B: VOLATILES      |   |                                    |          |                     | Analyst: KMN         |  |
| Benzene                          | ND  | 0.023                              | mg/Kg    | 1                   | 7/10/2023 6:16:00 PM |  |
| Toluene                          | ND  | 0.047                              | mg/Kg    | 1                   | 7/10/2023 6:16:00 PM |  |
| Ethylbenzene                     | ND  | 0.047                              | mg/Kg    | 1                   | 7/10/2023 6:16:00 PM |  |
| Xylenes, Total                   | ND  | 0.093                              | mg/Kg    | 1                   | 7/10/2023 6:16:00 PM |  |
| Surr: 4-Bromofluorobenzene       | 96.0                                      | 39.1-146                           | %Rec     | 1                   | 7/10/2023 6:16:00 PM |  |
| EPA METHOD 300.0: ANIONS         |   |                                    |          |                     | Analyst: SNS         |  |
| Chloride                         | 3200                                      | 150                                | mg/Kg    | 50                  | 7/14/2023 3:07:37 AM |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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|-----------------|
|                 |
|                 |

2307083

17-Jul-23

WO#:

| Client:<br>Project: | Devon<br>Spud 1  | Energy<br>6 State 010 |                           |                |                  |           |               |      |          |      |
|---------------------|--|-----------------------|---------------------------|----------------|------------------|-----------|---------------|------|----------|------|
| Sample ID:          | MB-76040   | SampType: N           | IBLK                      | Tes            | tCode: EF        | PA Method | 300.0: Anions | ;    |          |      |
| Client ID:          | PBS  | Batch ID: 7           | 6040                      | RunNo: 98000   |                  |           |               |      |          |      |
| Prep Date:          | 7/6/2023   | Analysis Date:        | 7/6/2023                  | SeqNo: 3565793 |                  |           | Units: mg/K   | g    |          |      |
| Analyte             |  | Result PQL            | SPK value                 | SPK Ref Val    | %REC             | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Chloride            |  | ND 1.5                | 5                         |                |                  |           |               |      |          |      |
| Sample ID:          | LCS-76040  | SampType: L           | cs                        | Tes            | tCode: EF        | PA Method | 300.0: Anions | ;    |          |      |
| Client ID:          | LCSS   | Batch ID: 7           | 6040                      | F              | RunNo: <b>98</b> | 3000      |               |      |          |      |
| Prep Date:          | 7/6/2023   | Analysis Date:        | 7/6/2023                  | S              | SeqNo: 35        | 565794    | Units: mg/K   | g    |          |      |
| Analyte             |  | Result PQL            | SPK value                 | SPK Ref Val    | %REC             | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Chloride            |  | 14 1.5                | 5 15.00                   | 0              | 90.7             | 90        | 110           |      |          |      |
| Sample ID:          | MB-76059   | SampType: N           | IBLK                      | Tes            | tCode: EF        | PA Method | 300.0: Anions | ;    |          |      |
| Client ID:          | PBS  | Batch ID: 7           | 6059                      | F              | RunNo: <b>98</b> | 3004      |               |      |          |      |
| Prep Date:          | 7/7/2023   | Analysis Date:        | 7/7/2023                  | S              | SeqNo: 35        | 566417    | Units: mg/K   | g    |          |      |
| Analyte             |  | Result PQL            | SPK value                 | SPK Ref Val    | %REC             | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Chloride            |  | ND 1.5                | 5                         |                |                  |           |               |      |          |      |
| Sample ID:          | : LCS-76059 SampType: LCS TestCode: EPA Method 300.0: Anions |                       |                           |                |                  |           |               |      |          |      |
| Client ID:          | LCSS   | Batch ID: 7           | ch ID: 76059 RunNo: 98004 |                |                  |           |               |      |          |      |
| Prep Date:          | 7/7/2023   | Analysis Date:        | 7/7/2023                  | S              | SeqNo: 35        | 566418    | Units: mg/K   | g    |          |      |
| Analyte             |  | Result PQL            | SPK value                 | SPK Ref Val    | %REC             | LowLimit  | HighLimit     | %RPD | RPDLimit | Qual |
| Chloride            |  | 14 1.5                | 5 15.00                   | 0              | 91.0             | 90        | 110           |      |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analyte

Surr: DNOP

Diesel Range Organics (DRO)

# **QC SUMMARY REPORT** Hall E

Result

39

4.3

PQL

9.3

SPK value SPK Ref Val

0

46.73

4.673

9.7

| Hall Er             | nvironmenta           | l Analysis Laborator    | ry, Inc. 17-J                                       | ul-23 |
|---------------------|-----------------------|-------------------------|---|-------|
| Client:<br>Project: | Devon Er<br>Spud 16 S |                         |   |       |
| Sample ID:          | 2307083-001AMS        | SampType: <b>MS</b>     | TestCode: EPA Method 8015M/D: Diesel Range Organics |       |
| Client ID:          | BH23-16 2'            | Batch ID: 76032         | RunNo: 97976  |       |
| Prep Date:          | 7/6/2023              | Analysis Date: 7/6/2023 | SeqNo: <b>3564785</b> Units: <b>mg/Kg</b>           |       |

%REC

82.7

92.0

LowLimit

54.2

69

HighLimit

135

147

%RPD

**RPDLimit** 

| Buil Brion                     | ч.5           | т.                 | 015              | 02.0 00               | 147                  |              |      |
|--------------------------------|---------------|--------------------|------------------|-----------------------|----------------------|--------------|------|
| Sample ID: 2307083-001AMS      | D SampType    | e: MSD             | Te               | stCode: EPA Method    | 8015M/D: Diesel Ra   | nge Organics |      |
| Client ID: BH23-16 2'          | Batch ID      | D: 76032           |                  | RunNo: <b>97976</b>   |                      |              |      |
| Prep Date: 7/6/2023            | Analysis Date | e: <b>7/6/2023</b> |                  | SeqNo: <b>3564786</b> | Units: <b>mg/Kg</b>  |              |      |
| Analyte                        | Result F      | PQL SPK va         | alue SPK Ref Val | %REC LowLimit         | : HighLimit %RF      | PD RPDLimit  | Qual |
| Diesel Range Organics (DRO)    | 39            | 9.3 46             | 6.51 0           | 83.3 54.2             | 135 0.2              | 71 29.2      |      |
| Surr: DNOP                     | 4.2           | 4.                 | 651              | 89.9 69               | 147                  | 0 0          |      |
| Sample ID: LCS-76032           | SampType      | e: LCS             | Te               | stCode: EPA Method    | 1 8015M/D: Diesel Ra | nge Organics |      |
| Client ID: LCSS                | Batch ID      | D: 76032           |                  | RunNo: <b>97976</b>   |                      |              |      |
| Prep Date: 7/6/2023            | Analysis Date | e: <b>7/6/2023</b> |                  | SeqNo: <b>3564808</b> | Units: <b>mg/Kg</b>  |              |      |
| Analyte                        | Result F      | PQL SPK va         | alue SPK Ref Val | %REC LowLimit         | : HighLimit %RF      | PD RPDLimit  | Qual |
| Diesel Range Organics (DRO)    | 40            | 10 50              | 0.00 0           | 80.6 61.9             | 130                  |              |      |
| Surr: DNOP                     | 3.9           | 5.                 | 000              | 77.1 69               | 147                  |              |      |
| Sample ID: MB-76032            | SampType      | e: MBLK            | Te               | stCode: EPA Method    | 1 8015M/D: Diesel Ra | nge Organics |      |
| Client ID: PBS                 | Batch ID      | D: 76032           |                  | RunNo: 97976          |                      |              |      |
| Prep Date: 7/6/2023            | Analysis Date | e: <b>7/6/2023</b> |                  | SeqNo: <b>3564811</b> | Units: <b>mg/Kg</b>  |              |      |
| Analyte                        | Result F      | PQL SPK va         | alue SPK Ref Val | %REC LowLimit         | : HighLimit %RF      | PD RPDLimit  | Qual |
| Diesel Range Organics (DRO)    | ND            | 10                 |                  |                       |                      |              |      |
| Motor Oil Range Organics (MRO) | ND            | 50                 |                  |                       |                      |              |      |
| Surr: DNOP                     | 8.4           | 10                 | 0.00             | 83.5 69               | 147                  |              |      |
| Sample ID: MB-76038            | SampType      | e: MBLK            | Te               | stCode: EPA Method    | 1 8015M/D: Diesel Ra | nge Organics |      |
| Client ID: PBS                 | Batch ID      | D: 76038           |                  | RunNo: <b>98033</b>   |                      |              |      |
| Prep Date: 7/6/2023            | Analysis Date | e: <b>7/7/2023</b> |                  | SeqNo: 3567169        | Units: mg/Kg         |              |      |
| Analyte                        | Result F      | PQL SPK va         | alue SPK Ref Val | %REC LowLimit         | : HighLimit %RF      | PD RPDLimit  | Qual |
| Diesel Range Organics (DRO)    | ND            | 10                 |                  |                       |                      |              |      |
| Motor Oil Range Organics (MRO) | ND            | 50                 |                  |                       |                      |              |      |

#### **Qualifiers:**

Surr: DNOP

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В

97.2

69

147

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

10.00

#### WO#: 2307083

Qual

2307083

17-Jul-23

WO#:

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Client:<br>Project:  | Devon Spud 10                   | Energy<br>6 State 010 |                         |           |             |                  |           |              |            |          |      |
|----------------------|---------------------------------|-----------------------|-------------------------|-----------|-------------|------------------|-----------|--------------|------------|----------|------|
| Sample ID: LCS-      | 76038                           | SampT                 | ype: LC                 | s         | Tes         | tCode: EF        | PA Method | 8015M/D: Die | esel Range | Organics |      |
| Client ID: LCS       | Client ID: LCSS Batch ID: 76038 |                       |                         |           |             | RunNo: <b>98</b> | 3033      |              |            |          |      |
| Prep Date: 7/6/      | 2023                            | Analysis D            | Analysis Date: 7/7/2023 |           |             | SeqNo: 3         | 567170    | Units: mg/K  | g          |          |      |
| Analyte              |                                 | Result                | PQL                     | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual |
| Diesel Range Organic | s (DRO)                         | 47                    | 10                      | 50.00     | 0           | 93.1             | 61.9      | 130          |            |          |      |
| Surr: DNOP           | 5.000                           |                       | 92.7                    | 69        | 147         |                  |           |              |            |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Client:Devon EndProject:Spud 16                     | nergy<br>State 010     |                    |  |                          |                     |          |          |      |  |  |  |  |  |  |
|---|------------------------|--------------------|--|--------------------------|---------------------|----------|----------|------|--|--|--|--|--|--|
| Sample ID: Ics-76025                                | SampType: LCS          |                    | TestCode: El                               | PA Mothod                | 8015D: Gasoli       | no Bongo |          |      |  |  |  |  |  |  |
| Client ID: LCSS                                     | Batch ID: 76025        |                    | RunNo: 9                                   |                          | 0015D. Gason        | ne Kange |          |      |  |  |  |  |  |  |
| Prep Date: 7/6/2023                                 | Analysis Date: 7/7/202 | 3                  | SeqNo: 3                                   |                          | Units: mg/Kg        | r        |          |      |  |  |  |  |  |  |
| Analyte   | ·                      | -<br>Value SPK Ref |  | LowLimit                 | HighLimit           | %RPD     | RPDLimit | Qual |  |  |  |  |  |  |
| Gasoline Range Organics (GRO)                       | 21 5.0                 |                    | 0 84.8                                     | 20wLii1iit<br>70         | 130                 | /0RF D   |          | Quai |  |  |  |  |  |  |
| Surr: BFB   | 2000                   | 1000               | 199  | 15                       | 244                 |          |          |      |  |  |  |  |  |  |
| Sample ID: mb-76025                                 | SampType: MBLK         |                    | TestCode: EPA Method 8015D: Gasoline Range |                          |                     |          |          |      |  |  |  |  |  |  |
| Client ID: PBS                                      | Batch ID: 76025        |                    | RunNo: 9                                   | 7992                     |                     | -        |          |      |  |  |  |  |  |  |
| Prep Date: 7/6/2023                                 | Analysis Date: 7/7/202 | 3                  | SeqNo: 3                                   | 565538                   | Units: mg/Kg        | 9        |          |      |  |  |  |  |  |  |
| Analyte   |                        |                    |  |                          |                     |          |          | Qual |  |  |  |  |  |  |
| Gasoline Range Organics (GRO)                       | ND 5.0                 |                    |  |                          | HighLimit           |          |          |      |  |  |  |  |  |  |
| Surr: BFB   | 950                    | 1000               | 94.6                                       | 15                       | 244                 |          |          |      |  |  |  |  |  |  |
| Sample ID: Ics-76031                                | SampType: LCS          |                    | PA Method                                  | od 8015D: Gasoline Range |                     |          |          |      |  |  |  |  |  |  |
| Client ID: LCSS                                     | Batch ID: 76031        |                    | RunNo: 9                                   | 8074                     |                     |          |          |      |  |  |  |  |  |  |
| Prep Date: 7/6/2023                                 | Analysis Date: 7/10/20 | 23                 | SeqNo: 3                                   | 568737                   | Units: <b>mg/Kg</b> |          |          |      |  |  |  |  |  |  |
| Analyte   | Result PQL SPF         | value SPK Ref      | Val %REC                                   | LowLimit                 | HighLimit           | %RPD     | RPDLimit | Qual |  |  |  |  |  |  |
| Gasoline Range Organics (GRO)                       | 22 5.0                 |                    | 0 88.2                                     | 70                       | 130                 |          |          |      |  |  |  |  |  |  |
| Surr: BFB   | 2100                   | 1000               | 206  | 15                       | 244                 |          |          |      |  |  |  |  |  |  |
| Sample ID: mb-76031                                 | SampType: MBLK         |                    | TestCode: El                               | PA Method                | 8015D: Gasoli       | ne Range |          |      |  |  |  |  |  |  |
| Client ID: PBS                                      | Batch ID: 76031        |                    | RunNo: 9                                   | 8074                     |                     |          |          |      |  |  |  |  |  |  |
| Prep Date: 7/6/2023                                 | Analysis Date: 7/10/20 | 23                 | SeqNo: 3                                   | 568738                   | Units: mg/Kg        | 9        |          |      |  |  |  |  |  |  |
| Analyte   |                        | Value SPK Ref      | Val %REC                                   | LowLimit                 | HighLimit           | %RPD     | RPDLimit | Qual |  |  |  |  |  |  |
| Gasoline Range Organics (GRO)<br>Surr: BFB          | ND 5.0<br>960          | 1000               | 95.7                                       | 15                       | 244                 |          |          |      |  |  |  |  |  |  |
|   |                        | 1000               |  |                          |                     |          |          |      |  |  |  |  |  |  |
| Sample ID: 2307083-013ams                           | SampType: MS           |                    |  |                          | 8015D: Gasoli       | ne Range |          |      |  |  |  |  |  |  |
| Client ID: BH23-24 0'                               | Batch ID: 76031        |                    | RunNo: 9                                   |                          | 11.5                |          |          |      |  |  |  |  |  |  |
| Prep Date: 7/6/2023                                 | Analysis Date: 7/10/20 |                    | SeqNo: 3                                   |                          | Units: mg/Kg        | 9        |          |      |  |  |  |  |  |  |
| Analyte   |                        | Value SPK Ref      |  | LowLimit                 | HighLimit           | %RPD     | RPDLimit | Qual |  |  |  |  |  |  |
| Gasoline Range Organics (GRO)<br>Surr: BFB          | 20 4.7<br>1900         | 23.61<br>944.3     | 0 84.2<br>200                              | 70<br>15                 | 130<br>244          |          |          |      |  |  |  |  |  |  |
| Sample ID: 2207022 042                              |                        |                    |  |                          |                     | no Dongo |          |      |  |  |  |  |  |  |
| Sample ID: 2307083-013amsd<br>Client ID: BH23-24 0' | Batch ID: <b>76031</b> |                    | RunNo: 9                                   |                          | 8015D: Gasoli       | ne kange |          |      |  |  |  |  |  |  |
| Prep Date: 7/6/2023                                 | Analysis Date: 7/10/20 | 23                 | SeqNo: 3                                   |                          | Units: mg/Kg        | <b>n</b> |          |      |  |  |  |  |  |  |
|   |                        |                    |  |                          |                     | -        |          | Qual |  |  |  |  |  |  |
| Analyte   | Result PQL SP          | Value SPK Ref      | Val %REC                                   | LowLimit                 | HighLimit           | %RPD     | RPDLimit | Qual |  |  |  |  |  |  |

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

2307083

17-Jul-23

WO#:

| QC SUMMARY REPORT                            | WO#: | 2307083   |
|--|------|-----------|
| Hall Environmental Analysis Laboratory, Inc. |      | 17-Jul-23 |

| Client:<br>Project: | Devon En<br>Spud 16 S | 0.         |           |           |             |                  |          |             |            |          |      |
|---------------------|-----------------------|------------|-----------|-----------|-------------|------------------|----------|-------------|------------|----------|------|
| Sample ID:          | 2307083-013amsd       | SampT      | Гуре: МS  | D         | Tes         | tCode: EF        | A Method | 8015D: Gaso | line Range |          |      |
| Client ID:          | BH23-24 0'            | Batcl      | h ID: 760 | 031       | F           | RunNo: <b>98</b> | 8074     |             |            |          |      |
| Prep Date:          | 7/6/2023              | Analysis [ | Date: 7/  | 10/2023   | S           | SeqNo: 35        | 568741   | Units: mg/K |            |          |      |
| Analyte             |                       | Result     | PQL       | SPK value | SPK Ref Val | %REC             | LowLimit | HighLimit   | %RPD       | RPDLimit | Qual |
| Gasoline Rang       | e Organics (GRO)      | 19         | 4.7       | 23.63     | 0           | 81.2             | 70       | 130         | 3.53       | 20       |      |
| Surr: BFB           |                       | 1900       |           | 945.2     |             | 200              | 15       | 244         | 0          | 0        |      |

#### Qualifiers:

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- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Devon Energy

**Client:** 

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| <b>Released to Imaging:</b> | 4/17/2025 | 1:37:41 PM |
|-----------------------------|-----------|------------|

|                            | 6 State 010 |                |           |             |                   |                    |                    |      |          |      |  |  |  |  |
|----------------------------|-------------|----------------|-----------|-------------|-------------------|--------------------|--------------------|------|----------|------|--|--|--|--|
| Sample ID: Ics-76025       | SampT       | ype: LC        | s         | Tes         | stCode: EF        | PA Method          | 8021B: Volati      | iles |          |      |  |  |  |  |
| Client ID: LCSS            | Batch       | ID: 760        | )25       | F           | RunNo: <b>9</b> 7 | 7992               |                    |      |          |      |  |  |  |  |
| Prep Date: 7/6/2023        | Analysis D  | ate: 7/7       | 7/2023    | \$          | SeqNo: 3          | 565540             | Units: mg/K        | (g   |          |      |  |  |  |  |
| Analyte                    | Result      | PQL            | SPK value | SPK Ref Val | %REC              | LowLimit           | HighLimit          | %RPD | RPDLimit | Qual |  |  |  |  |
| Benzene                    | 0.87        | 0.025          | 1.000     | 0           | 86.6              | 70                 | 130                |      |          |      |  |  |  |  |
| Foluene                    | 0.90        | 0.050          | 1.000     | 0           | 89.6              | 70                 | 130                |      |          |      |  |  |  |  |
| Ethylbenzene               | 0.91        | 0.050          | 1.000     | 0           | 90.5              | 70                 | 130                |      |          |      |  |  |  |  |
| Xylenes, Total             | 2.7         | 0.10           | 3.000     | 0           | 90.5              | 70                 | 130                |      |          |      |  |  |  |  |
| Surr: 4-Bromofluorobenzene | 0.95        |                | 1.000     |             | 94.9              | 39.1               | 146                |      |          |      |  |  |  |  |
| Sample ID: mb-76025        | SampT       | уре: МВ        | LK        | Tes         | stCode: EF        | PA Method          | 8021B: Volati      | iles |          |      |  |  |  |  |
| Client ID: PBS             | Batch       | ID: 760        | )25       | F           |                   |                    |                    |      |          |      |  |  |  |  |
| Prep Date: 7/6/2023        | Analysis D  | ate: 7/7       | 7/2023    | S           | 565541            | Units: <b>mg/K</b> | (g                 |      |          |      |  |  |  |  |
| Analyte                    | Result      | PQL            | SPK value | SPK Ref Val | %REC              | LowLimit           | HighLimit          | %RPD | RPDLimit | Qual |  |  |  |  |
| Benzene                    | ND          | 0.025          |           |             |                   |                    |                    |      |          |      |  |  |  |  |
| Toluene                    | ND          | 0.050          |           |             |                   |                    |                    |      |          |      |  |  |  |  |
| Ethylbenzene               | ND          | 0.050          |           |             |                   |                    |                    |      |          |      |  |  |  |  |
| Kylenes, Total             | ND          | 0.10           |           |             |                   |                    |                    |      |          |      |  |  |  |  |
| Surr: 4-Bromofluorobenzene | 0.93        |                | 1.000     |             | 93.1              | 39.1               | 146                |      |          |      |  |  |  |  |
| Sample ID: Ics-76031       | SampT       | ype: LC        | s         | Tes         | stCode: El        | PA Method          | 8021B: Volatiles   |      |          |      |  |  |  |  |
| Client ID: LCSS            | Batch       | ID: 760        | )31       | F           | RunNo: <b>9</b> 8 | 8074               |                    |      |          |      |  |  |  |  |
| Prep Date: 7/6/2023        | Analysis D  | ate: 7/        | 10/2023   | Ş           | SeqNo: 3          | 568778             | Units: mg/K        | (g   |          |      |  |  |  |  |
| Analyte                    | Result      | PQL            | SPK value | SPK Ref Val | %REC              | LowLimit           | HighLimit          | %RPD | RPDLimit | Qual |  |  |  |  |
| Benzene                    | 0.86        | 0.025          | 1.000     | 0           | 86.4              | 70                 | 130                |      |          |      |  |  |  |  |
| Toluene                    | 0.89        | 0.050          | 1.000     | 0           | 89.4              | 70                 | 130                |      |          |      |  |  |  |  |
| Ethylbenzene               | 0.90        | 0.050          | 1.000     | 0           | 90.1              | 70                 | 130                |      |          |      |  |  |  |  |
| Xylenes, Total             | 2.7         | 0.10           | 3.000     | 0           | 89.7              | 70                 | 130                |      |          |      |  |  |  |  |
| Surr: 4-Bromofluorobenzene | 0.95        |                | 1.000     |             | 95.5              | 39.1               | 146                |      |          |      |  |  |  |  |
| Sample ID: mb-76031        | SampT       | уре: <b>МВ</b> | LK        | Tes         | stCode: El        | PA Method          | 8021B: Volati      | iles |          |      |  |  |  |  |
| Client ID: PBS             | Batch       | ID: 760        | 031       | F           | RunNo: <b>9</b> 8 | 8074               |                    |      |          |      |  |  |  |  |
| Prep Date: 7/6/2023        | Analysis D  | ate: 7/        | 10/2023   | Ş           | SeqNo: 3          | 568779             | Units: <b>mg/K</b> | (g   |          |      |  |  |  |  |
| Analyte                    | Result      | PQL            | SPK value | SPK Ref Val | %REC              | LowLimit           | HighLimit          | %RPD | RPDLimit | Qual |  |  |  |  |
| Benzene                    | ND          | 0.025          |           |             |                   |                    |                    |      |          |      |  |  |  |  |
| Toluene                    | ND          | 0.050          |           |             |                   |                    |                    |      |          |      |  |  |  |  |
| Ethylbenzene               | ND          | 0.050          |           |             |                   |                    |                    |      |          |      |  |  |  |  |
| Xylenes, Total             | ND          | 0.10           |           |             |                   |                    |                    |      |          |      |  |  |  |  |
| Surr: 4-Bromofluorobenzene | 0.94        |                | 1.000     |             | 94.4              | 39.1               | 146                |      |          |      |  |  |  |  |
|                            |             |                |           |             |                   |                    |                    |      |          |      |  |  |  |  |

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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- WO#: 2307083
  - 17-Jul-23

Devon Energy Spud 16 State 010

**Client:** 

**Project:** 

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

| WO#: | 230708   |
|------|----------|
|      | 17-Jul-2 |

17-Jul

| Sample ID: 2307083-014ams   | SampT   | Гуре: <b>МЅ</b>  | ;   | Tes                        | PA Method   | 8021B: Volat                                  | iles  |  |                |      |
|---|---|--|---|----------------------------|---|---|---|--|----------------|------|
| Client ID: BH23-24 2'   | Batcl   | h ID: <b>760</b>   | )31   | F                          | RunNo: <b>98</b>                                      | 8074  |   |  |                |      |
| Prep Date: 7/6/2023   | Analysis [                                    | Date: 7/*  | 10/2023   | S                          | SeqNo: 3  | 568782  | Units: <b>mg/k</b>                            | ٢g   |                |      |
| Analyte   | Result  | PQL  | SPK value                                       | SPK Ref Val                | %REC  | LowLimit                                      | HighLimit                                     | %RPD   | RPDLimit       | Qual |
| Benzene   | 0.80  | 0.025  | 0.9862  | 0                          | 81.1  | 70  | 130   |  |                |      |
| Toluene   | 0.84  | 0.049  | 0.9862  | 0                          | 84.7  | 70  | 130   |  |                |      |
| Ethylbenzene  | 0.85  | 0.049  | 0.9862  | 0                          | 86.6  | 70  | 130   |  |                |      |
| Xylenes, Total  | 2.6   | 0.099  | 2.959   | 0                          | 86.2  | 70  | 130   |  |                |      |
| Surr: 4-Bromofluorobenzene  | 0.93  |  | 0.9862  |                            | 94.3  | 39.1  | 146   |  |                |      |
| Sample ID: 2307083-014amsd SampType: MSD TestCode: EPA Method 8021B: Vo       |   |  |   |                            |   |   |   |  |                |      |
| Sample ID: 2307083-014amsd  | SampT   | Гуре: <b>МS</b>  | D   | Tes                        | tCode: EF   | PA Method                                     | 8021B: Volat                                  | iles   |                |      |
| Sample ID: 2307083-014amsd<br>Client ID: BH23-24 2'                           | ·   | Гуре: <b>МS</b><br>h ID: <b>760</b>                          |   |                            | tCode: <b>EF</b><br>RunNo: <b>98</b>                  |   | 8021B: Volat                                  | iles   |                |      |
|   | ·   | h ID: 760  | )31   | F                          |   | 8074  | 8021B: Volat<br>Units: mg/ł                   |  |                |      |
| Client ID: BH23-24 2'   | Batcl   | h ID: 760  | )31   | F                          | RunNo: <b>98</b>                                      | 8074  |   |  | RPDLimit       | Qual |
| Client ID: BH23-24 2'<br>Prep Date: 7/6/2023                                  | Batcl<br>Analysis [                           | h ID: <b>760</b><br>Date: <b>7/</b>                          | )31<br>10/2023                                  | F                          | RunNo: <b>98</b><br>SeqNo: <b>38</b>                  | 3074<br>568783                                | Units: <b>mg/ł</b>                            | ٢g   | RPDLimit<br>20 | Qual |
| Client ID: <b>BH23-24 2'</b><br>Prep Date: <b>7/6/2023</b><br>Analyte         | Batcl<br>Analysis I<br>Result                 | h ID: <b>760</b><br>Date: <b>7/</b> *<br>PQL                 | 031<br>10/2023<br>SPK value                     | F<br>S<br>SPK Ref Val      | RunNo: 98<br>SeqNo: 38<br>%REC                        | 3074<br>568783<br>LowLimit                    | Units: <b>mg/ł</b><br>HighLimit               | <b>(g</b><br>%RPD                                    |                | Qual |
| Client ID: BH23-24 2'<br>Prep Date: 7/6/2023<br>Analyte<br>Benzene            | Batcl<br>Analysis I<br>Result<br>0.80         | h ID: <b>760</b><br>Date: <b>7/</b><br>PQL<br>0.025          | 031<br>10/2023<br>SPK value<br>0.9862           | F<br>SPK Ref Val<br>0      | RunNo: 98<br>SeqNo: 38<br><u>%REC</u><br>81.1         | 8074<br>568783<br>LowLimit<br>70              | Units: <b>mg/ł</b><br>HighLimit<br>130        | <b>(g</b><br>%RPD<br>0.00123                         | 20             | Qual |
| Client ID: BH23-24 2'<br>Prep Date: 7/6/2023<br>Analyte<br>Benzene<br>Toluene | Batcl<br>Analysis I<br>Result<br>0.80<br>0.84 | h ID: <b>760</b><br>Date: <b>7/</b><br>PQL<br>0.025<br>0.049 | 031<br>10/2023<br>SPK value<br>0.9862<br>0.9862 | F<br>SPK Ref Val<br>0<br>0 | RunNo: 98<br>SeqNo: 38<br><u>%REC</u><br>81.1<br>85.6 | <b>3074</b><br>568783<br>LowLimit<br>70<br>70 | Units: <b>mg/k</b><br>HighLimit<br>130<br>130 | <b><g< b=""><br/>%RPD<br/>0.00123<br/>0.995</g<></b> | 20<br>20       | Qual |

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J
- Р Sample pH Not In Range

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- Analyte detected below quantitation limits
- RL Reporting Limit

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY   | Hall Environmental<br>Albi<br>TEL: 505-345-3975<br>Website: www.ha | 4901 Hav<br>uquerque. N<br>FAX: 505-3 | vkins NE<br>M 87109<br>245-4107 | Sar        | ample Log-In Check List                              |   |  |  |  |  |  |  |  |
|---|--|---------------------------------------|---------------------------------|------------|--|---|--|--|--|--|--|--|--|
| Client Name: Devon Energy   | Work Order Number:   | 2307083                               |                                 |            | RcptNo: 1  |   |  |  |  |  |  |  |  |
|   | 7/6/2023 7:35:00 AM<br>7/6/2023 8:40:00 AM                         |                                       |                                 |            |  |   |  |  |  |  |  |  |  |
| Reviewed By: Th 7/6/23  |  |                                       |                                 |            |  |   |  |  |  |  |  |  |  |
| Chain of Custody  |  | _                                     |                                 | <b>[</b> ] | <b>—</b>   |   |  |  |  |  |  |  |  |
| 1. Is Chain of Custody complete?  |  | Yes 🗌                                 | ſ                               | No 🗹       | Not Present  |   |  |  |  |  |  |  |  |
| 2. How was the sample delivered?  |  | <u>Courier</u>                        |                                 |            |  |   |  |  |  |  |  |  |  |
| Log In<br>3. Was an attempt made to cool the samples?                                     |  | Yes 🗹                                 | 1                               | 10 🗌       | NA 🗔   |   |  |  |  |  |  |  |  |
| 4. Were all samples received at a temperature of  | >0° C to 6.0°C   | Yes 🗹                                 | 1                               | 10 🗌       | NA 🗌   |   |  |  |  |  |  |  |  |
| 5. Sample(s) in proper container(s)?  |  | Yes 🗹                                 | 1                               | 10 🗌       |  |   |  |  |  |  |  |  |  |
| 6. Sufficient sample volume for indicated test(s)?  |  | Yes 🗹                                 | N                               | lo 🗌       |  |   |  |  |  |  |  |  |  |
| 7. Are samples (except VOA and ONG) properly  | preserved?   | Yes 🗹                                 | N                               | o 🗌        |  |   |  |  |  |  |  |  |  |
| 8. Was preservative added to bottles?   |  | Yes 🗌                                 | N                               | 0          | NA 🗌   |   |  |  |  |  |  |  |  |
| 9. Received at least 1 vial with headspace <1/4" f  | or AQ VOA?   | Yes 🗌                                 | N                               | o 🗌        | NA 🗹   |   |  |  |  |  |  |  |  |
| 10. Were any sample containers received broken?   | •  | Yes 🗌                                 | 1                               | 10 🗹       | # of preserved                                       |   |  |  |  |  |  |  |  |
| 11. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)       |  | Yes 🗹                                 | Ν                               | lo 🗌       | bottles checked<br>for pH:<br>(<2 or >12 unless note | ed)                                       |  |  |  |  |  |  |  |
| 12. Are matrices correctly identified on Chain of Cu                                      | istody?  | Yes 🗹                                 | N                               | o 🗌        | Adjusted   |   |  |  |  |  |  |  |  |
| 13. Is it clear what analyses were requested?   |  | Yes 🗹                                 |                                 | o 🗌        | fim fr   | 101.107                                   |  |  |  |  |  |  |  |
| 14. Were all holding times able to be met?<br>(If no, notify customer for authorization.) |  | Yes 🗹                                 | N                               | o 🗌        | Checked by: 5CM U/                                   | 106/85                                    |  |  |  |  |  |  |  |
| Special Handling (if applicable)  |  |                                       |                                 |            | 1  |   |  |  |  |  |  |  |  |
| 15. Was client notified of all discrepancies with thi                                     | s order?   | Yes 🗌                                 | 1                               | 10 🗆       | NA 🗹   |   |  |  |  |  |  |  |  |
| Person Notified:  | Date:  |                                       |                                 |            |  |   |  |  |  |  |  |  |  |
| By Whom:  | Via:   | eMail [                               | ] Phone                         | 🗌 Fax      | In Person  | W   |  |  |  |  |  |  |  |
| Regarding:<br>Client Instructions: Mailing address, ph                                    | one number and Email   | /Eax are mi                           | ssing on (                      | ОС Т       | MC 7/6/22  | :41 P                                     |  |  |  |  |  |  |  |
| 16. Additional remarks:   |  |                                       | SSING ON V                      | 500 - 1    |  | 1:37.                                     |  |  |  |  |  |  |  |
| 17. <u>Cooler Information</u><br>Cooler No Temp °C Condition Sea                          |  | eal Date                              | Signe                           | ed By      |  | (/17/2025                                 |  |  |  |  |  |  |  |
| 1 5.8 Good Yes<br>Page I of I   | Morty  |                                       |                                 |            |  | Released to Imaging: 4/17/2025 1:37:41 PM |  |  |  |  |  |  |  |

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Received by OCD: 1/8/2025 1:37:44 PM

| Chain-of-Custody Record |  |        |                             |  | Turn-Around Time:   |                             |  |                            |                      | ŀ                  | 44                     |               | F                           | NV            | /11             | 20                              | NM          |    | 174      |  |
|-------------------------|--|--------|-----------------------------|--|---|-----------------------------|--|----------------------------|----------------------|--------------------|------------------------|---------------|-----------------------------|---------------|-----------------|---------------------------------|-------------|----|----------|--|
|                         | Devi   | in / V | ertex                       | Project Nam                                    | d 🛛 🖉 Rus<br>ne:  | sh <u>5Day</u><br>tate #010 | ANALYSIS LABORATORY                          |                            |                      |                    |                        |               |                             |               |                 |                                 |             |    |          |  |
| Mailing                 | Address                                      | s: Or  | n file                      | - Spu  | d 16 S.   | tate #010                   |  | 49                         | 01 H                 |                    |                        |               |                             |               |                 |                                 | om<br>M 871 | 00 |          |  |
|                         |  |        |                             | Project #:                                     |   |                             | 1  |                            | el. 50               |                    |                        |               |                             |               |                 |                                 | -4107       | 00 |          |  |
| Phone                   | #:   | 6A     |                             | 235.   | - 02857   | 1                           |  |                            |                      |                    |                        | -             | -                           |               |                 | uest                            | _           |    |          |  |
| email o                 | r Fax#:                                      |        |                             | Project Mana                                   | ager:   |                             | =  | ି                          |                      |                    |                        |               | SO4                         |               |                 | Ê                               |             |    | 1        |  |
| QA/QC I<br>□ Stan       | Package:<br>ndard                            |        | □ Level 4 (Full Validation) | Kent   | t Stallin   | <u>'95</u>                  | / TMB's (8021)                               | 0 / MR                     | PCB's                |                    | 8270SIMS               |               | PO4,                        |               |                 | t/Abser                         |             |    |          |  |
| Accredi                 | Accreditation:  Accreditation:  Accompliance |        |                             | Sampler:                                       | MB  | ЫN                          | 382  | <del>,</del>               | 3270                 |                    | NO <sub>2</sub> ,      |               |                             | lese          |                 |                                 |             |    |          |  |
|                         | □ NELAC □ Other<br>□ EDD (Type)              |        |                             | On Ice: WYes INo morty                         |   |                             |  | l õ                        | ss/8(                | 504                | or                     | S             |                             |               | (A              | (Pre                            | 1.5         |    |          |  |
| □ EDD (Type)            |  |        | # of Coolers:               |  | 0-0.2= 5.8 (°C)   | MTBE /                      | D<br>D                                       | licide                     | Pou                  | 3310               | letal                  | 9<br>N        | 2                           | ار-ار<br>V(   | E Lo            |                                 |             |    |          |  |
| Date                    | Time   | Matrix | Sample Name                 | Container<br>Type and #                        | Preservative<br>Type  | e HEAL No.                  | RIEN M                                       | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 | EDB (Method 504.1) | PAHs by 8310 or        | RCRA 8 Metals | Ch F, Br, NO <sub>3</sub> , | 8260 (VOA)    | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |             |    |          |  |
| 6/30/22                 | 9:05   |        | BH23-16 2'                  |  | and the second se | 2307083                     | See<br>V                                     | 5                          |                      |                    | <u> </u>               | ~             |                             | òò            | 00              |                                 |             |    | $\vdash$ |  |
| 120/25                  | 9:10   | 10010  | ACTIVITY AND A MORE A       | Lozjar   | Ice   | 001                         | Ť  | T                          | -                    | $\rightarrow$      | -+                     |               | -                           | $\rightarrow$ |                 |                                 |             |    | ( Third  |  |
|                         | 9:12   |        |                             | <u> </u>                                       |   | 002                         | $\left  - \right  $                          |                            | -+                   | -+                 | $\rightarrow$          | -             | +                           |               |                 |                                 |             | _  | -        |  |
|                         |  | - -    | BH23-17 2'                  | <u>↓                                      </u> | + $-$   | 003                         | -   -  |                            | _                    | -+                 | _                      |               | $\square$                   |               |                 |                                 |             |    |          |  |
|                         | 9:15   |        | BH23-17 4'                  |  | $ \downarrow \downarrow $   | 004                         | Ш  |                            |                      | _                  |                        | _             |                             |               | `               |                                 | _           |    |          |  |
|                         | 9:16   |        | BH23-21 0'                  |  |   | 200                         | $\square$                                    |                            |                      |                    |                        |               |                             |               |                 |                                 |             |    |          |  |
|                         | 9:20   |        | BH23-21 2'                  |  |   | 006                         |  |                            |                      |                    |                        |               |                             |               |                 | 1                               |             |    |          |  |
|                         | 9:25   |        | BH23-21 4                   |  | Service and the service of the  | 007                         |  |                            |                      |                    |                        |               |                             |               |                 |                                 |             |    | -        |  |
|                         | 9:30   |        | BH23-22 0'                  |  |   | 005                         |  |                            |                      |                    | ine a                  | -             | -                           | 1.00          |                 | 1-110                           |             | 20 |          |  |
|                         | 9:35   |        | BH23-22 2'                  |  |   | 009                         |  |                            |                      |                    |                        |               |                             | 122           |                 |                                 | 122         |    |          |  |
|                         | 9:40   |        | BH23-22 4                   |  | 1000 (1000) - 1000 (1000)<br>1000 (1000) - 1000 (1000)  | 010                         |  |                            |                      |                    |                        |               |                             |               |                 |                                 |             |    |          |  |
|                         | 9:41   |        | BH23-23 0'                  |  |   | 011                         |  | 11                         |                      | 100                | (Carlon)<br>Control (C | 100 C         |                             |               |                 |                                 | 223         |    |          |  |
| 9:42 BH25-23 2-         |  |        | 012                         |  |   |                             |  |                            |                      |                    |                        | H             |                             |               |                 |                                 |             |    |          |  |
|                         |  |        |                             |  |   |                             | Remarks: Direct bill to Devan W/0 #: 2116574 |                            |                      |                    |                        |               |                             |               |                 |                                 | ,5742       |    |          |  |
| 16/23 1900 accurs       |  |        |                             |  |   | C-                          | с,   | 87                         | MC                   | Car                | to                     | 0             | U                           | rtes          | o.ce            |                                 | Dal         | ol | 23       |  |

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Released to This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

| Received by OCD: 1/8/2025 1:37:44 PM   |  | Page 332 of 351   |
|--|--|---|
| Chain-of-Custody Record  | Turn-Around Time:                                  | HALL ENVIRONMENTAL  |
| Client: Devon / Vertex   | Project Name:<br>Spuch 16 State #010<br>Project #: | ANALYSIS LABORATORY   |
| · /  |  | www.hallenvironmental.com   |
| Mailing Address:   | Spud 16 State FOID                                 | 4901 Hawkins NE - Albuquerque, NM 87109   |
|  | Project <sup>*#</sup> :                            | Tel. 505-345-3975 Fax 505-345-4107  |
| Phone #:   | 23E-02857  | Analysis Request  |
| email or Fax#:   | Project Manager:                                   | sent) (30 sol   |
| QA/QC Package:   | , Kent stallings                                   | 3TE% / MTBE / TMB's (8021)         BTE% / MTBE / TMB's (8021)         CPH:8015D(GRO / DRO / MRO)         3081 Pesticides/8082 PCB's         DB (Method 504.1)         DAHs by 8310 or 8270SIMS         AHs by 8310 or 8270SIMS         CLyF, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> B260 (VOA)         B270 (Semi-VOA)         Total Coliform (Present/Absent)   |
|  | Sampler: SM  | TMB's<br>1 DR02 F<br>8082 F<br>8082 F<br>4 1)<br>NO2,<br>NO2,<br>NO2,   |
| Accreditation:  Accreditation: | On Ice: Ves INo morty                              | BJE% / MTBE / TMB<br>TPH:8015D(GRO / DR<br>8081 Pesticides/8082<br>EDB (Method 504.1)<br>PAHs by 8310 or 827<br>RCRA 8 Metals<br>RCRA 8 Metals<br>CD,F, Br, NO <sub>3</sub> , NO <sub>2</sub><br>8260 (VOA)<br>8270 (Semi-VOA)<br>Total Coliform (Prese   |
| □ EDD (Type)   | # of Coolers: 1                                    | MTBE /<br>MTBE /<br>MTBE /<br>Setricides<br>3r, NO <sub>3</sub><br>Metals<br>3r, NO <sub>3</sub><br>(OA)<br>Semi-VC   |
|  | Cooler Temp(including CF): (0.0-0.2:58 (°C)        | BJE% / MTBE / TPH:8015D(GRO<br>8081 Pesticides/6<br>EDB (Method 50/<br>EDB (Method 50/<br>RCRA 8 Metals<br>CG7, Br, NO <sub>3</sub> ,<br>8260 (VOA)<br>8270 (Semi-VOA)<br>Total Coliform (P   |
|  | Container Preservative HEAL No.                    | BJE%<br>2001 F<br>8081 F<br>701 F<br>7 |
| Date Time Matrix Sample Name   | Type and # Type 7.307083                           |   |
| 6/30/29:45 Soil BH23-24 0  | Yuziar Ice 013                                     |   |
| 19:48 BH23-24 2-   | 014  |   |
| 9:50 BH22-25 O'  | 015  |   |
| 9:56 RH25-25 2-  | 016  |   |
| 9:58 BH23-26 0-  | 017  |   |
| 10:00 BH23-26 A-   | 018  |   |
| 12:05 8423-27 0'   | 019  |   |
| 12:08 3423-27 2-   | 02.0   |   |
| 12:10 BH23-28 0'   | 071  |   |
| 2:B BH23-28 2-   | 022  |   |
| 10:25 BG22-03 2  | 023  |   |
| 10:30 BG23-03 4-   | 024  |   |
| Date: Time: Religquished by:   | Received by: Via: Date Time                        | Remarks: Direct bill to Deven w/o # 21165742  |
| 75/23 8:56 tan Mc4A  | Received by: Via: Compare Date Time                | and the second sec  |
| Date: Time: Relinquished by:   |  | 5 C.C. SMCCarty Q Verlex. ca 19203  |
| 15/3 1900 acump  | 7-16/23 7:35                                       | C. C. SMILLANTY O Verhow an Igan  |

Released to the provide state of this possibility. Any sub-contracted data will be clearly notated

Received by OCD: 1/8/2025 1:37:44 PM

| Chain-of-Custody Record      |  |        |                             | Turn        | Turn-Around Time:<br>Standard Rush_50244<br>Project Name:<br>Spudlb State #010<br>Project #: |                               |         |                       | HALL ENVIRONMENTAL |                            |                    |              |               |                                      |            |                     |          |                                 |                   |                      |       |     |           |
|------------------------------|--|--------|-----------------------------|-------------|--|-------------------------------|---------|-----------------------|--------------------|----------------------------|--------------------|--------------|---------------|--------------------------------------|------------|---------------------|----------|---------------------------------|-------------------|----------------------|-------|-----|-----------|
| Client:                      | De   | UUN    | lvertex                     |             | Standard   |                               | 50      | ay                    |                    |                            |                    |              |               |                                      |            |                     |          | AB                              |                   |                      |       |     |           |
|                              |  |        | ,                           |             |  | 9:                            |         |                       |                    |                            |                    |              | www           | v.hal                                | llenv      | ironr               | ment     | tal.co                          | m                 |                      |       |     |           |
| Mailing                      | Address  | :: O   | a file                      | 2           | pud  | -16 Ste                       | ale #   | =010                  |                    | 49                         | 01 H               | awki         | ins N         | ۱E -                                 | Alb        | ouqu                | erqu     | e, NN                           | и 87 <sup>.</sup> | 109                  |       |     |           |
|                              |  |        | 1                           | Proje       | eot #:   |                               |         |                       |                    | Τe                         | el. 50             | )5-34        | 15-39         | 975                                  | F          | Fax                 | 505-     | -345-4                          | 4107              | kanisi (<br>Merenala |       |     |           |
| Phone :                      | #:   |        |                             | 7)          | BE.  | -02857                        | /       |                       |                    |                            |                    |              |               | _                                    | naly       | /sis                | Req      | uest                            |                   |                      |       |     |           |
| email o                      | r Fax#:  |        | - He - 419                  | Proje       | ect Mana   | ger:                          | d a     | 8 - E                 | ÷                  | Ô                          |                    |              | 16            |                                      | SO4        |                     |          | ut)                             | -                 | 1.1                  |       |     |           |
| QA/QC I<br>□ Stan            | Package:<br>dard                                     |        | □ Level 4 (Full Validation) | 1           | Kent   | - Stallir                     | 195     |                       | TMB's (8021)       | TPH:8015D(GRO / DRO / MRO) | PCB's              |              | 8270SIMS      |                                      | PO4, S     | 12.14.2             | out -    | Total Coliform (Present/Absent) |                   | 61-61                |       |     | 1         |
| Accredi                      |  |        | ompliance                   | Sampler: SM |  |                               |         | MB.                   | DR(                |                            | Ę                  | 270          |               | NO <sub>2</sub> ,                    |            |                     | sen      |                                 |                   |                      |       |     |           |
|                              | □ NELAC □ Other                                      |        |                             |             | On Ice: V Yes D No mortu   |                               |         |                       |                    | )<br>Ö                     | s/8C               | 504.         | 5             | 0                                    |            |                     | (YC      | (Pre                            |                   | 1                    |       |     |           |
|                              | □ EDD (Type)   |        |                             |             | # of Coolers: 1  |                               |         |                       |                    | LO<br>LO                   | cide               | po           | 310           | etal                                 | NO3        |                     | <u>-</u> | E                               |                   |                      |       |     |           |
|                              |  |        |                             |             | Cooler Temp(including CF): (0.0-0.2-5.8 (°C)   |                               |         |                       | Σ                  | 150                        | esti               | Aeth         | <u>v</u>      | 8                                    | 'n,        | VOA                 | Sem      | olifc                           | 2                 | 1.                   |       |     |           |
|                              |  |        |                             |             | Container Preservative HEAL No.  |                               |         | BUEX / MTBE /         | PH:80              | 8081 Pesticides/8082       | EDB (Method 504.1) | PAHs by 8310 | RCRA 8 Metals | <b>CA</b> , F, Br, NO <sub>3</sub> , | 8260 (VOA) | 8270 (Semi-VOA)     | otal C   |                                 |                   |                      |       |     |           |
|                              | Time   | Matrix | Sample Name                 | 1           | and #  | Туре                          | 230:    | 7003                  | J<br>M             | F                          | ŏ                  | ш            | <u> </u>      | R                                    | 2<br>V     | õ                   | 8        | F                               |                   | _                    |       | _   |           |
| 6/20/23                      |  | Sort   | BG23-03 6-                  | 4           | ozja   | Ice                           | 025     | 1. See                |                    | V                          |                    |              |               |                                      | v          |                     |          |                                 |                   | 100                  | _     | 0   | 4         |
|                              | 10:10  |        | B623-04 0'                  |             |  |                               | 026     |                       | $\square$          |                            |                    | 1            |               |                                      |            |                     | i despe  |                                 |                   | 1                    |       |     |           |
|                              | 10:15  |        | BG23-04 2'                  |             | 1  | 1.111                         | 027     | A second second       |                    |                            |                    |              |               | et -                                 |            |                     |          |                                 |                   |                      |       |     | 1.1       |
|                              | 10:20  |        | BG23-04 4                   |             |  | a na na angli<br>Ing na angli | 028     | AND STREET, SALES     |                    |                            |                    | 1 m          |               | -                                    |            |                     |          |                                 |                   |                      |       |     |           |
|                              |  | · ·    |                             |             |  |                               |         |                       |                    |                            |                    |              |               |                                      | n as 2.0   |                     | erel ki  |                                 |                   |                      | _     |     |           |
|                              |  |        |                             |             |  | Parkage Treats                | an pair |                       |                    |                            |                    |              | 1             |                                      |            | - 20 - 10-<br>10- 1 |          |                                 |                   |                      | 1     | 1   | $\square$ |
|                              |  |        |                             |             |  |                               | 1       | 100 A 100 A 100 A 100 |                    |                            |                    |              |               |                                      |            |                     |          |                                 |                   |                      |       |     |           |
|                              |  |        |                             |             | 14 A   |                               |         |                       |                    |                            |                    |              |               |                                      |            |                     | 1.00     | 1.00                            |                   |                      |       |     |           |
|                              |  |        |                             | 1           |  |                               |         |                       |                    |                            |                    |              |               |                                      | ÷          | 100                 |          |                                 | - 21              |                      | 22.   |     |           |
|                              |  |        |                             | 1           |  |                               |         | ACRE TO               |                    |                            |                    |              |               |                                      |            |                     |          |                                 |                   |                      |       |     | $\square$ |
|                              |  |        | Dec 1                       |             | 061  | -00 A - 4 M                   | -       |                       |                    |                            |                    |              |               |                                      |            |                     |          |                                 |                   |                      |       |     |           |
|                              |  |        |                             |             | -  |                               |         |                       | 1                  |                            |                    |              | 15-0-1        |                                      |            |                     |          |                                 |                   |                      |       |     |           |
| Date:                        | Date: Time: Relinguished by:                         |        |                             |             | ved by:  | Via:                          | Date    | Time                  | Ren                | nark                       | ו<br>s: ך          | 120          | och           | hi                                   | 11         | to                  | 100      | end                             | 61                | 10#                  | :211/ | 500 | 12        |
| 75/23 8:56 Att Mc With       |  |        |                             | a           | Mu   | in                            | 7/10/22 | 3 8510                |                    |                            | 5                  |              |               | 5                                    | • •        |                     |          |                                 | ~/                |                      | o-114 |     |           |
| Date: Time: Relinquished by: |  |        |                             | Recei       | ved by:  | Via: caun                     | Date    | Time                  | 1                  |                            | •                  | _            |               |                                      |            | ~                   |          |                                 |                   |                      |       |     |           |
| 15/23                        | Date: Time: Relinquished by: 1<br>1523 900 and and a |        |                             | K           |  |                               | 717     | 123 7:35              | 0                  | <u></u>                    | <u>C</u>           | 87           | nc            | Cor                                  | ty         | a                   | Vel      | ta                              | c, C              | n                    | pg    | 304 | 3         |



June 05, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX

RE: Spud 16 State 010

OrderNo.: 2305C87

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/25/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**CLIENT:** Devon Energy

Project:

Lab ID:

Spud 16 State 010

2305C87-001

**Analytical Report** Lab Order 2305C87

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/5/2023 Client Sample ID: BG 23-01 0.0' Collection Date: 5/23/2023 10:20:00 AM

Received Date: 5/25/2023 9:35:00 AM

| Analyses                           | Result   | RL Qua   | al Units | DF  | Date Analyzed         |  |  |  |
|------------------------------------|----------|----------|----------|-----|-----------------------|--|--|--|
| EPA METHOD 8015M/D: DIESEL RANGE C | ORGANICS |          |          |     | Analyst: PRD          |  |  |  |
| Diesel Range Organics (DRO)        | ND       | 9.2      | mg/Kg    | 1   | 5/27/2023 11:02:39 AM |  |  |  |
| Motor Oil Range Organics (MRO)     | ND       | 46       | mg/Kg    | 1   | 5/27/2023 11:02:39 AM |  |  |  |
| Surr: DNOP                         | 71.0     | 69-147   | %Rec     | 1   | 5/27/2023 11:02:39 AM |  |  |  |
| EPA METHOD 300.0: ANIONS           |          |          |          |     | Analyst: NAI          |  |  |  |
| Chloride                           | 18000    | 1500     | mg/Kg    | 500 | 6/2/2023 12:35:16 AM  |  |  |  |
| EPA METHOD 8260B: VOLATILES        |          |          |          |     | Analyst: RAA          |  |  |  |
| Benzene                            | ND       | 0.025    | mg/Kg    | 1   | 5/27/2023 3:17:57 AM  |  |  |  |
| Toluene                            | ND       | 0.050    | mg/Kg    | 1   | 5/27/2023 3:17:57 AM  |  |  |  |
| Ethylbenzene                       | ND       | 0.050    | mg/Kg    | 1   | 5/27/2023 3:17:57 AM  |  |  |  |
| Xylenes, Total                     | ND       | 0.099    | mg/Kg    | 1   | 5/27/2023 3:17:57 AM  |  |  |  |
| Surr: Dibromofluoromethane         | 116      | 73-145   | %Rec     | 1   | 5/27/2023 3:17:57 AM  |  |  |  |
| Surr: 1,2-Dichloroethane-d4        | 111      | 64.8-147 | %Rec     | 1   | 5/27/2023 3:17:57 AM  |  |  |  |
| Surr: Toluene-d8                   | 97.6     | 70-130   | %Rec     | 1   | 5/27/2023 3:17:57 AM  |  |  |  |
| EPA METHOD 8015D MOD: GASOLINE RA  | NGE      |          |          |     | Analyst: RAA          |  |  |  |
| Gasoline Range Organics (GRO)      | ND       | 5.0      | mg/Kg    | 1   | 5/27/2023 3:17:57 AM  |  |  |  |
| Surr: BFB                          | 106      | 70-130   | %Rec     | 1   | 5/27/2023 3:17:57 AM  |  |  |  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL

Practical Quanitative Limit % Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 1 of 8

**CLIENT:** Devon Energy

**Project:** 

Lab ID:

Spud 16 State 010

2305C87-002

**Analytical Report** Lab Order 2305C87

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/5/2023 Client Sample ID: BG 23-02 0.0' Collection Date: 5/23/2023 10:35:00 AM

Received Date: 5/25/2023 9:35:00 AM

| Analyses                            | Result | RL Qu    | al Units | DF  | Date Analyzed         |
|-------------------------------------|--------|----------|----------|-----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |          |     | Analyst: PRD          |
| Diesel Range Organics (DRO)         | ND     | 9.5      | mg/Kg    | 1   | 5/27/2023 11:26:47 AM |
| Motor Oil Range Organics (MRO)      | ND     | 47       | mg/Kg    | 1   | 5/27/2023 11:26:47 AM |
| Surr: DNOP                          | 70.6   | 69-147   | %Rec     | 1   | 5/27/2023 11:26:47 AM |
| EPA METHOD 300.0: ANIONS            |        |          |          |     | Analyst: NAI          |
| Chloride                            | 12000  | 600      | mg/Kg    | 200 | 6/2/2023 12:47:37 AM  |
| EPA METHOD 8260B: VOLATILES         |        |          |          |     | Analyst: RAA          |
| Benzene                             | ND     | 0.024    | mg/Kg    | 1   | 5/27/2023 4:47:33 AM  |
| Toluene                             | ND     | 0.048    | mg/Kg    | 1   | 5/27/2023 4:47:33 AM  |
| Ethylbenzene                        | ND     | 0.048    | mg/Kg    | 1   | 5/27/2023 4:47:33 AM  |
| Xylenes, Total                      | ND     | 0.097    | mg/Kg    | 1   | 5/27/2023 4:47:33 AM  |
| Surr: Dibromofluoromethane          | 115    | 73-145   | %Rec     | 1   | 5/27/2023 4:47:33 AM  |
| Surr: 1,2-Dichloroethane-d4         | 107    | 64.8-147 | %Rec     | 1   | 5/27/2023 4:47:33 AM  |
| Surr: Toluene-d8                    | 96.9   | 70-130   | %Rec     | 1   | 5/27/2023 4:47:33 AM  |
| EPA METHOD 8015D MOD: GASOLINE RAN  | GE     |          |          |     | Analyst: RAA          |
| Gasoline Range Organics (GRO)       | ND     | 4.8      | mg/Kg    | 1   | 5/27/2023 4:47:33 AM  |
| Surr: BFB                           | 107    | 70-130   | %Rec     | 1   | 5/27/2023 4:47:33 AM  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL

Practical Quanitative Limit % Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 2 of 8

**CLIENT:** Devon Energy

Project:

Lab ID:

Spud 16 State 010

2305C87-003

**Analytical Report** Lab Order 2305C87

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/5/2023 Client Sample ID: BG 23-03 0.0' Collection Date: 5/23/2023 10:45:00 AM

Received Date: 5/25/2023 9:35:00 AM

| Analyses                           | Result  | RL Qua   | al Units | DF  | Date Analyzed         |  |  |  |
|------------------------------------|---------|----------|----------|-----|-----------------------|--|--|--|
| EPA METHOD 8015M/D: DIESEL RANGE O | RGANICS |          |          |     | Analyst: PRD          |  |  |  |
| Diesel Range Organics (DRO)        | ND      | 9.4      | mg/Kg    | 1   | 5/27/2023 11:50:55 AM |  |  |  |
| Motor Oil Range Organics (MRO)     | ND      | 47       | mg/Kg    | 1   | 5/27/2023 11:50:55 AM |  |  |  |
| Surr: DNOP                         | 71.3    | 69-147   | %Rec     | 1   | 5/27/2023 11:50:55 AM |  |  |  |
| EPA METHOD 300.0: ANIONS           |         |          |          |     | Analyst: NAI          |  |  |  |
| Chloride                           | 17000   | 600      | mg/Kg    | 200 | 6/2/2023 12:59:58 AM  |  |  |  |
| EPA METHOD 8260B: VOLATILES        |         |          |          |     | Analyst: RAA          |  |  |  |
| Benzene                            | ND      | 0.025    | mg/Kg    | 1   | 5/27/2023 5:17:16 AM  |  |  |  |
| Toluene                            | ND      | 0.050    | mg/Kg    | 1   | 5/27/2023 5:17:16 AM  |  |  |  |
| Ethylbenzene                       | ND      | 0.050    | mg/Kg    | 1   | 5/27/2023 5:17:16 AM  |  |  |  |
| Xylenes, Total                     | ND      | 0.10     | mg/Kg    | 1   | 5/27/2023 5:17:16 AM  |  |  |  |
| Surr: Dibromofluoromethane         | 116     | 73-145   | %Rec     | 1   | 5/27/2023 5:17:16 AM  |  |  |  |
| Surr: 1,2-Dichloroethane-d4        | 109     | 64.8-147 | %Rec     | 1   | 5/27/2023 5:17:16 AM  |  |  |  |
| Surr: Toluene-d8                   | 95.9    | 70-130   | %Rec     | 1   | 5/27/2023 5:17:16 AM  |  |  |  |
| EPA METHOD 8015D MOD: GASOLINE RA  | NGE     |          |          |     | Analyst: RAA          |  |  |  |
| Gasoline Range Organics (GRO)      | ND      | 5.0      | mg/Kg    | 1   | 5/27/2023 5:17:16 AM  |  |  |  |
| Surr: BFB                          | 105     | 70-130   | %Rec     | 1   | 5/27/2023 5:17:16 AM  |  |  |  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 8

| Client:<br>Project: |           | n Energy<br>16 State 010 |                 |           |                    |                   |           |                    |      |          |      |
|---------------------|-----------|--------------------------|-----------------|-----------|--------------------|-------------------|-----------|--------------------|------|----------|------|
| Sample ID: N        | IB-75263  | SampTy                   | /pe: <b>m</b> k | olk       | Tes                | tCode: EF         | PA Method | 300.0: Anion       | s    |          |      |
| Client ID: P        | BS        | Batch                    | ID: 75          | 263       | F                  | RunNo: 97         | 7118      |                    |      |          |      |
| Prep Date:          | 5/31/2023 | Analysis Da              | ate: <b>5/</b>  | 31/2023   | Units: <b>mg/K</b> | g                 |           |                    |      |          |      |
| Analyte             |           | SPK value                | LowLimit        | HighLimit | %RPD               | RPDLimit          | Qual      |                    |      |          |      |
| Chloride            |           | ND                       | 1.5             |           |                    |                   |           |                    |      |          |      |
| Sample ID: L        | .CS-75263 | SampTy                   | /pe: Ics        | 5         | Tes                | tCode: EF         | PA Method | 300.0: Anion       | s    |          |      |
| Client ID: L        | CSS       | Batch                    | ID: 75          | 263       | F                  | RunNo: <b>9</b> 7 | 7118      |                    |      |          |      |
| Prep Date:          | 5/31/2023 | Analysis Da              | ate: <b>5/</b>  | 31/2023   | S                  | SeqNo: 3          | 526737    | Units: <b>mg/K</b> | g    |          |      |
| Analyte             |           | Result                   | PQL             | SPK value | SPK Ref Val        | %REC              | LowLimit  | HighLimit          | %RPD | RPDLimit | Qual |
| Chloride            |           | 14                       | 1.5             | 15.00     | 0                  | 92.6              | 90        | 110                |      |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 8

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2305C87

05-Jun-23

WO#:

|                                | Devon Energy<br>Spud 16 State 010 |                                   |           |              |           |           |                          |            |            |      |  |  |  |
|--------------------------------|-----------------------------------|-----------------------------------|-----------|--------------|-----------|-----------|--------------------------|------------|------------|------|--|--|--|
| Sample ID: MB-75212            | SampT                             | ype: ME                           | BLK       | Tes          | tCode: El | PA Method | 8015M/D: Die             | esel Range | e Organics |      |  |  |  |
| Client ID: PBS                 | Batch                             | n ID: <b>75</b>                   | 212       | RunNo: 97076 |           |           |                          |            |            |      |  |  |  |
| Prep Date: 5/26/2023           | Analysis D                        | Analysis Date: 5/26/2023 SeqNo: 3 |           |              |           |           | No: 3523780 Units: mg/Kg |            |            |      |  |  |  |
| Analyte                        | Result                            | PQL                               | SPK value | SPK Ref Val  | %REC      | LowLimit  | HighLimit                | %RPD       | RPDLimit   | Qual |  |  |  |
| Diesel Range Organics (DRO)    | ND                                | 10                                |           |              |           |           |                          |            |            |      |  |  |  |
| Motor Oil Range Organics (MRO) | ND                                | 50                                |           |              |           |           |                          |            |            |      |  |  |  |
| Surr: DNOP                     | 8.8                               |                                   | 10.00     |              | 87.8      | 69        | 147                      |            |            |      |  |  |  |
| Sample ID: LCS-75212           | SampT                             | ype: LC                           | S         | Tes          | tCode: El | PA Method | 8015M/D: Die             | esel Range | e Organics |      |  |  |  |
| Client ID: LCSS                | Batch                             | ID: 75                            | 212       | F            | RunNo: 9  | 7076      |                          |            |            |      |  |  |  |
| Prep Date: 5/26/2023           | Analysis D                        | ate: 5/                           | 27/2023   | S            | SeqNo: 3  | 523781    | Units: mg/K              | íg         |            |      |  |  |  |
| Analyte                        | Result                            | PQL                               | SPK value | SPK Ref Val  | %REC      | LowLimit  | HighLimit                | %RPD       | RPDLimit   | Qual |  |  |  |
| Diesel Range Organics (DRO)    | 39                                | 10                                | 50.00     | 0            | 78.0      | 61.9      | 130                      |            |            |      |  |  |  |
| Surr: DNOP                     | 3.8                               | 3.8 5.000                         |           |              | 76.5      | 69        | 147                      |            |            |      |  |  |  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 8

2305C87

05-Jun-23

WO#:

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

WO#: 2305C87

05-Jun-23

| Client:Devon ExProject:Spud 16               | nergy<br>State 010 |                 |                 |                         |                  |            |                    |       |          |      |  |  |
|--|--------------------|-----------------|-----------------|-------------------------|------------------|------------|--------------------|-------|----------|------|--|--|
| Sample ID: 2305c87-001ams                    | Samp               | Гуре: МS        |                 | Tes                     | tCode: <b>FI</b> | PA Method  | 8260B: Volat       | tiles |          |      |  |  |
| Client ID: <b>BG 23-01 0.0'</b>              |                    | h ID: <b>75</b> |                 |                         | RunNo: <b>9</b>  |            | 020021 1014        |       |          |      |  |  |
| Prep Date: 5/25/2023                         | Analysis [         |                 |                 |                         | SeqNo: 3         |            | Units: mg/k        | (a    |          |      |  |  |
|  |                    |                 |                 |                         |                  |            | Ū                  | •     |          |      |  |  |
| Analyte                                      | Result             | PQL             |                 | SPK Ref Val             | %REC             | LowLimit   | HighLimit          | %RPD  | RPDLimit | Qual |  |  |
| Benzene                                      | 1.1                | 0.025           | 0.9940          | 0                       | 111              | 60.8       | 141                |       |          |      |  |  |
| Toluene                                      | 1.0                | 0.050           | 0.9940          | 0                       | 102              | 15         | 261                |       |          |      |  |  |
| Ethylbenzene                                 | 1.0                | 0.050           | 0.9940          | 0                       | 105              | 70         | 130                |       |          |      |  |  |
| Xylenes, Total<br>Surr: Dibromofluoromethane | 3.2<br>0.56        | 0.099           | 2.982<br>0.4970 | 0                       | 107<br>112       | 70<br>73   | 130<br>145         |       |          |      |  |  |
| Surr: 1,2-Dichloroethane-d4                  | 0.58               |                 | 0.4970          |                         | 109              | 64.8       | 145                |       |          |      |  |  |
| Surr: Toluene-d8                             | 0.34               |                 | 0.4970          |                         | 94.2             | 04.8<br>70 | 147                |       |          |      |  |  |
| Surr: 4-Bromofluorobenzene                   | 0.47               |                 | 0.4970          |                         | 94.2<br>98.5     | 62.1       | 130                |       |          |      |  |  |
|  | 0110               |                 | 0.1010          |                         | 0010             | 02.1       |                    |       |          |      |  |  |
| Sample ID: 2305c87-001amsc                   | Samp               | Гуре: М         | SD              | Tes                     | tCode: El        | PA Method  | 8260B: Volat       | tiles |          |      |  |  |
| Client ID: BG 23-01 0.0'                     | Batc               | h ID: 75        | 185             | F                       | RunNo: 9         | 7079       |                    |       |          |      |  |  |
| Prep Date: 5/25/2023                         | Analysis [         | Date: 5/        | 27/2023         | S                       | SeqNo: 3         | 524157     | Units: mg/k        | ٤g    |          |      |  |  |
| Analyte                                      | Result             | PQL             | SPK value       | SPK Ref Val             | %REC             | LowLimit   | HighLimit          | %RPD  | RPDLimit | Qual |  |  |
| Benzene                                      | 1.0                | 0.025           | 0.9852          | 0                       | 105              | 60.8       | 141                | 6.28  | 20       |      |  |  |
| Toluene                                      | 0.97               | 0.049           | 0.9852          | 0                       | 98.1             | 15         | 261                | 5.28  | 20       |      |  |  |
| Ethylbenzene                                 | 0.97               | 0.049           | 0.9852          | 0                       | 98.7             | 70         | 130 7.40           |       | 0        |      |  |  |
| Xylenes, Total                               | 3.0                | 0.099           | 2.956           | 0                       | 102 70           |            | 130                | 5.47  | 0        |      |  |  |
| Surr: Dibromofluoromethane                   | 0.56               |                 | 0.4926          |                         | 114              | 73         | 145                | 0     | 0        |      |  |  |
| Surr: 1,2-Dichloroethane-d4                  | 0.53               |                 | 0.4926          |                         | 107              | 64.8       | 147                | 0     | 0        |      |  |  |
| Surr: Toluene-d8                             | 0.46               |                 | 0.4926          |                         | 92.8             | 70         | 130                | 0     | 0        |      |  |  |
| Surr: 4-Bromofluorobenzene                   | 0.49               |                 | 0.4926          |                         | 98.6             | 62.1       | 144                | 0     | 0        |      |  |  |
| Sample ID: Ics-75185                         | Samp <sup>-</sup>  | Гуре: <b>LC</b> | S               | Tes                     | tCode: El        | PA Method  | 8260B: Volat       | tiles |          |      |  |  |
| Client ID: LCSS                              | Batc               | h ID: 75        | 185             | F                       | RunNo: 9         | 7079       |                    |       |          |      |  |  |
| Prep Date: 5/25/2023                         | Analysis [         | Date: 5/        | 26/2023         | S                       | SeqNo: 3         | 524160     | Units: <b>mg/k</b> | (g    |          |      |  |  |
| Analyte                                      | Result             | PQL             | SPK value       | SPK Ref Val             | %REC             | LowLimit   | HighLimit          | %RPD  | RPDLimit | Qual |  |  |
| Benzene                                      | 1.0                | 0.025           | 1.000           | 0                       | 103              | 70         | 130                |       |          |      |  |  |
| Toluene                                      | 0.93               | 0.050           | 1.000           | 0                       | 93.3             | 70         | 130                |       |          |      |  |  |
| Surr: Dibromofluoromethane                   | 0.56               |                 | 0.5000          |                         | 113              | 73         | 145                |       |          |      |  |  |
| Surr: 1,2-Dichloroethane-d4                  | 0.54               |                 | 0.5000          |                         | 108              | 64.8       | 147                |       |          |      |  |  |
| Surr: Toluene-d8                             | 0.48               |                 | 0.5000          |                         | 96.1             | 70         | 130                |       |          |      |  |  |
| Surr: 4-Bromofluorobenzene                   | 0.50               |                 | 0.5000          |                         | 101              | 62.1       | 144                |       |          |      |  |  |
| Sample ID: mb-75185                          | Samp               | Гуре: <b>МЕ</b> | BLK             | Tes                     | tCode: El        | PA Method  | 8260B: Volat       | tiles |          |      |  |  |
| Client ID: PBS                               | Batc               | h ID: 75        | 185             | F                       | RunNo: <b>9</b>  | 7079       |                    |       |          |      |  |  |
| Prep Date: 5/25/2023                         | Analysis [         | Date: 5/        | 26/2023         | SeqNo: 3524161 Units: m |                  |            |                    | ٢g    |          |      |  |  |
| Analyte                                      | Result             | PQL             | SPK value       | SPK Ref Val             | %REC             | LowLimit   | HighLimit          | %RPD  | RPDLimit | Qual |  |  |

#### **Qualifiers:**

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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| WO#: | 2305C87   |
|------|-----------|
|      | 05-Jun-23 |

Client:Devon EnergyProject:Spud 16 State 010

| Sample ID: mb-75185         | Samp       | Гуре: <b>МЕ</b> | BLK       | TestCode: EPA Method 8260B: Volatiles |                   |          |                     |      |          |      |  |  |
|-----------------------------|------------|-----------------|-----------|---------------------------------------|-------------------|----------|---------------------|------|----------|------|--|--|
| Client ID: PBS              | Batc       | h ID: 75        | 185       | F                                     | RunNo: <b>9</b> 7 | 7079     |                     |      |          |      |  |  |
| Prep Date: 5/25/2023        | Analysis [ | Date: 5/        | 26/2023   | SeqNo: 3524161                        |                   |          | Units: <b>mg/Kg</b> |      |          |      |  |  |
| Analyte                     | Result     | PQL             | SPK value | SPK Ref Val                           | %REC              | LowLimit | HighLimit           | %RPD | RPDLimit | Qual |  |  |
| Benzene                     | ND         | 0.025           |           |                                       |                   |          |                     |      |          |      |  |  |
| Toluene                     | ND         | 0.050           |           |                                       |                   |          |                     |      |          |      |  |  |
| Ethylbenzene                | ND         | 0.050           |           |                                       |                   |          |                     |      |          |      |  |  |
| Xylenes, Total              | ND         | 0.10            |           |                                       |                   |          |                     |      |          |      |  |  |
| Surr: Dibromofluoromethane  | 0.58       |                 | 0.5000    |                                       | 117               | 73       | 145                 |      |          |      |  |  |
| Surr: 1,2-Dichloroethane-d4 | 0.55       |                 | 0.5000    |                                       | 110               | 64.8     | 147                 |      |          |      |  |  |
| Surr: Toluene-d8            | 0.47       |                 | 0.5000    |                                       | 93.6              | 70       | 130                 |      |          |      |  |  |
| Surr: 4-Bromofluorobenzene  | 0.49       |                 | 0.5000    |                                       | 98.8              | 62.1     | 144                 |      |          |      |  |  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

|                               | n Energy<br>16 State 010 |                 |           |              |                    |           |                    |          |          |      |
|-------------------------------|--------------------------|-----------------|-----------|--------------|--------------------|-----------|--------------------|----------|----------|------|
| Sample ID: Ics-75185          | SampT                    | ype: LC         | S         | Tes          | tCode: El          | PA Method | 8015D Mod:         | Gasoline | Range    |      |
| Client ID: LCSS               | Batch                    | n ID: <b>75</b> | 185       | RunNo: 97079 |                    |           |                    |          |          |      |
| Prep Date: 5/25/2023          | Analysis D               | ate: 5/         | 26/2023   | S            | Units: <b>mg/k</b> | g         |                    |          |          |      |
| Analyte                       | Result                   | PQL             | SPK value | SPK Ref Val  | %REC               | LowLimit  | HighLimit          | %RPD     | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 20                       | 5.0             | 25.00     | 0            | 81.5               | 70        | 130                |          |          |      |
| Surr: BFB                     | 520                      |                 | 500.0     |              | 105                | 70        | 130                |          |          |      |
| Sample ID: mb-75185           | SampT                    | ype: ME         | BLK       | Tes          | tCode: El          | PA Method | 8015D Mod:         | Gasoline | Range    |      |
| Client ID: PBS                | Batch                    | n ID: <b>75</b> | 185       | F            | tunNo: <b>9</b>    | 7079      |                    |          |          |      |
| Prep Date: 5/25/2023          | Analysis D               | ate: 5/         | 26/2023   | S            | eqNo: 3            | 524134    | Units: <b>mg/k</b> | g        |          |      |
| Analyte                       | Result                   | PQL             | SPK value | SPK Ref Val  | %REC               | LowLimit  | HighLimit          | %RPD     | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                       | 5.0             |           |              |                    |           |                    |          |          |      |
| Surr: BFB                     | 520                      |                 | 500.0     |              | 103                | 70        | 130                |          |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2305C87

05-Jun-23

WO#:

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY   | TEL: 505-345-3                   | ntal Analysis Labor<br>4901 Hawkin<br>Albuquerque, NM 8<br>975 FAX: 505-345-<br>vhallenvironmenta | ns NE<br>7109 Sam<br>4107   | mple Log-In Check List         |               |  |  |  |  |  |
|---|----------------------------------|---|---|--------------------------------|---------------|--|--|--|--|--|
| Client Name: Devon Energy   | Work Order Num                   | ber: 2305C87  |   | RcptNo: 1                      |               |  |  |  |  |  |
| Received By: Juan Rojas   | 5/25/2023 9:35:00 /              | AM  | (Juan & g   |                                |               |  |  |  |  |  |
| Completed By: Tracy Casarrubias<br>Reviewed By:   | 5/25/2023 10:07:19               | AM  |   |                                |               |  |  |  |  |  |
| Chain of Custody  |                                  |   |   |                                |               |  |  |  |  |  |
| 1. Is Chain of Custody complete?  |                                  | Yes 🗌   | No 🗹  | Not Present                    |               |  |  |  |  |  |
| 2. How was the sample delivered?  |                                  | Courier   |   |                                |               |  |  |  |  |  |
| Log In<br>3. Was an attempt made to cool the samp   | les?                             | Yes 🔽   | No 🗌  |                                |               |  |  |  |  |  |
| 4. Were all samples received at a temperative   | ture of >0° C to 6.0°C           | Yes 🔽   | Νο  | NA 🗌                           |               |  |  |  |  |  |
| 5. Sample(s) in proper container(s)?  |                                  | Yes 🗹   | No 🗌  |                                |               |  |  |  |  |  |
| 6. Sufficient sample volume for indicated t   | est(s)?                          | Yes 🗹   | No 🗌  |                                |               |  |  |  |  |  |
| $7_{\cdot}$ Are samples (except VOA and ONG) pr   | operly preserved?                | Yes 🗹   | No 🗌  |                                |               |  |  |  |  |  |
| 8. Was preservative added to bottles?   |                                  | Yes 🗌   | No 🔽  | NA 🗌                           |               |  |  |  |  |  |
| 9. Received at least 1 vial with headspace  | <1/4" for AQ VOA?                | Yes   | No 🗔  | NA 🗹                           |               |  |  |  |  |  |
| 10. Were any sample containers received b   | proken?                          | Yes 🗌   | No 🗹  | # of preserved bottles checked |               |  |  |  |  |  |
| 11. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody        | ')                               | Yes 🗹   | No 🗔  | for pH:<br>(<2 or >12          | unless noted) |  |  |  |  |  |
| 12. Are matrices correctly identified on Cha  | in of Custody?                   | Yes 🗹   | No 🗌  | Adjusted?                      |               |  |  |  |  |  |
| 13. Is it clear what analyses were requested  | !?                               | Yes 🗹   | No 🗌  |                                | I al a        |  |  |  |  |  |
| 14. Were all holding times able to be met?<br>(If no, notify customer for authorization.) |                                  | Yes 🗹   | No 🗌  | Checked by: Jn.S               | -/25 (23      |  |  |  |  |  |
| Special Handling (if applicable)  |                                  |   | - 11  |                                |               |  |  |  |  |  |
| 15. Was client notified of all discrepancies  | with this order?                 | Yes 🗌   | No 🗌  | NA 🗹                           |               |  |  |  |  |  |
| Person Notified:  | Date:                            | -   | and the state of the |                                |               |  |  |  |  |  |
| By Whom:  | Via:                             | 🗌 eMail 🔲 F   | Phone 🗌 Fax   | In Person                      |               |  |  |  |  |  |
| Regarding: Mailing  |                                  |   |   |                                |               |  |  |  |  |  |
| Client Instructions: Milling addre  | ss, phone number and Em          | ail are missing on  | COC - TMC 5/2   | 5/23                           |               |  |  |  |  |  |
| 40  | ushed By unfo fie                | 3m client   | on COC. N   | 1925123                        |               |  |  |  |  |  |
| Cooler Information       Cooler No     Temp °C     Condition       1     1.7     Good     | Seal Intact Seal No<br>Yes Morty | Seal Date   | Signed By   |                                |               |  |  |  |  |  |

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| Received by | OCD: | 1/8/2025 | 1:37:44 PM |
|-------------|------|----------|------------|
|-------------|------|----------|------------|

| С       | hain       | of-Cu     | ustody Reco       | ord       | Turn-Around              | Time:                |                     |              |                            |                            | н                  |                          | IF                     | NN.        | /TE             | 20                              | NM       | FN             | TAI | _      |
|---------|------------|-----------|-------------------|-----------|--------------------------|----------------------|---------------------|--------------|----------------------------|----------------------------|--------------------|--------------------------|------------------------|------------|-----------------|---------------------------------|----------|----------------|-----|--------|
| Client: |            | Deve      | 20                |           | Standard                 |                      | 50211               |              | 5000                       |                            |                    |                          |                        |            |                 |                                 | BOR      |                |     |        |
|         | <u></u>    |           |                   |           | Project Nam              | e:                   | # 010               |              |                            | Server La                  |                    | www.ł                    |                        |            |                 |                                 |          |                |     | 2      |
| Mailing | Address    |           | i.                | **        | Project Name<br>Sprod    | 16 Steve             | 7010                |              | 49                         | 01 H                       |                    |                          |                        |            |                 |                                 | M 8710   | 09             |     |        |
|         |            |           |                   |           |                          | 3E- 028              |                     |              |                            |                            |                    | 5-397                    |                        | -          |                 |                                 | -4107    |                |     |        |
| Phone   | <b>4</b> : |           |                   |           |                          | . 30 000             |                     |              |                            |                            |                    |                          |                        | lysis      |                 |                                 |          |                |     |        |
| email o |            |           |                   |           | Project Mana             | ager:                | ,1                  | Ę            | Ô                          |                            |                    |                          | so,                    |            |                 | int)                            |          | and particular |     |        |
| QA/QC   | Package:   |           |                   |           |                          | Kent Ste             | ling                | TMB's (8021) | TPH 8015D(GRO / DRO / MRO) | B's                        |                    | MS                       | PO. S                  | F          |                 | Total Coliform (Present/Absent) |          |                |     |        |
| □ Stan  | dard       |           | Level 4 (Full Val | lidation) |                          |                      |                     | B's (        | RO/                        | 2 PC                       |                    | ZOSI                     |                        |            |                 | sht/                            |          |                |     |        |
|         |            |           | ompliance         |           | Sampler:                 |                      |                     | _ Ē          |                            | 808                        | 4.1)               | 82                       | Ó                      |            | 2               | rese                            |          |                |     |        |
|         | ~          | □ Other   | ſ                 |           | On Ice:<br># of Coolers: | Yes                  | I No<br>Morty       | - j          | GRC                        | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | ပ္ပါ als               | 5          | 8270 (Semi-VOA) | m (F                            |          |                |     |        |
|         |            | 1         |                   |           | Cooler Temp              |                      | 7-021.7 (°C         | MTBE         | 5D(i                       | stici                      | etho               | 83                       | CLF Br NO <sub>2</sub> | ) (A       | -ime            | lifor                           |          |                |     |        |
|         |            |           |                   |           | 0.0                      |                      |                     |              | 801                        | Pe                         | Ň                  | la by                    | ×   ∞                  | Ś          | S) (Si          | Co                              |          |                |     |        |
| Date    | Time       | Matrix    | Sample Name       |           | Container<br>Type and #  | Preservative<br>Type | HEAL No.            | BIEN         | 囵                          | 808                        | Ē                  | PAL                      |                        | 8260 (VOA) | 827(            | Tota                            |          |                |     |        |
| 5-23-23 |            | So, /     | BG23-01           | 0,0       | 402                      | ILE                  | 001                 | 1            |                            |                            |                    |                          | Μ                      |            |                 | - Internet                      |          |                |     |        |
| 1       | 1035       | 1         | B623-02           | 0,0       | 1                        |                      | 002                 |              | 17                         |                            |                    |                          | 1                      | -          |                 |                                 |          |                |     |        |
| V       | 1045       | 1         | BG23-03           | 0.0       |                          | V                    | 003                 | TV           | TV                         |                            |                    |                          | V                      |            | 1               | 1                               |          | 12             |     | $\top$ |
|         |            |           |                   |           |                          |                      |                     |              |                            |                            |                    |                          |                        | 100        | 1.16.2          | 1.00                            |          |                |     |        |
|         |            |           |                   |           |                          | 0.00                 |                     |              | <u> </u>                   |                            |                    |                          |                        |            |                 |                                 |          |                |     |        |
|         |            |           | jî la r           |           |                          |                      |                     | 1            |                            |                            |                    |                          |                        |            |                 | $\square$                       |          |                |     |        |
|         |            |           |                   |           |                          |                      |                     |              |                            |                            |                    |                          |                        |            |                 | 1                               |          | 1              |     | -      |
|         |            |           |                   |           |                          |                      | And a second second | 1-           |                            |                            |                    |                          |                        |            |                 | -                               |          |                |     |        |
|         |            |           |                   |           |                          |                      |                     | -            | $\vdash$                   |                            |                    | 12                       |                        |            | 1.5.            |                                 |          |                |     |        |
|         | 1.00       |           |                   |           |                          | and the state        |                     | +            |                            |                            |                    |                          |                        |            |                 | 1.5                             |          |                |     | +      |
|         |            |           |                   |           |                          | 1.1.1.1.1.1          | The second second   |              | +                          |                            |                    |                          |                        |            |                 |                                 |          | 100            |     |        |
|         |            |           |                   |           |                          |                      |                     |              |                            |                            |                    |                          |                        |            |                 |                                 |          |                |     |        |
| Date:   | Time:      | Relinquis | ned by:           |           | Received by:             | l<br>Via:            | Date Time           | Re           | mark                       | s:                         |                    |                          | 1                      |            |                 |                                 | <u> </u> |                |     |        |
|         |            |           |                   |           | am                       | un                   | 5/21/23 1015        |              |                            |                            |                    |                          |                        |            |                 |                                 |          |                |     |        |
| Date:   | Time:      | Relinquis | ned by:           |           | Received by:             | Via:                 | Date Time           |              |                            |                            |                    |                          |                        |            |                 |                                 |          |                |     |        |
| P/21/03 | 1910       | MA        | (                 |           | 1                        | Launder              | 5/25/23 9!          | 35           |                            |                            |                    |                          |                        |            |                 |                                 |          |                |     |        |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 4/17/2025 1:37:41 PM

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

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QUESTIONS

Action 418620

| QUESTIONS |
|-----------|
|-----------|

| Operator:                           | OGRID:   |
|-------------------------------------|--|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137   |
| 333 West Sheridan Ave.              | Action Number:   |
| Oklahoma City, OK 73102             | 418620   |
|                                     | Action Type:   |
|                                     | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

#### QUESTIONS

| Prerequisites    |  |
|------------------|--|
| Incident ID (n#) | nKMW1109729911   |
| Incident Name    | NKMW1109729911 LAGUNA SALADO 22 FEDERAL #004H @ 30-015-36461 |
| Incident Type    | Produced Water Release                                       |
| Incident Status  | Remediation Plan Approved                                    |
| Incident Well    | [30-015-36461] LAGUNA SALADO 22 FEDERAL #004H                |
|                  |  |

#### Location of Release Source

| Please answer all the questions in this group. |                         |                                |
|--|-------------------------|--------------------------------|
|  | Site Name               | LAGUNA SALADO 22 FEDERAL #004H |
|  | Date Release Discovered | 09/15/2009                     |
|  | Surface Owner           | Private                        |

#### Incident Details

| Please answer all the questions in this group.  |                        |  |
|---|------------------------|--|
| Incident Type   | Produced Water Release |  |
| Did this release result in a fire or is the result of a fire  | No                     |  |
| Did this release result in any injuries   | No                     |  |
| Has this release reached or does it have a reasonable probability of reaching a<br>watercourse        | No                     |  |
| Has this release endangered or does it have a reasonable probability of<br>endangering public health  | No                     |  |
| Has this release substantially damaged or will it substantially damage property or<br>the environment | No                     |  |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water  | No                     |  |

#### Nature and Volume of Release

| Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. |  |  |
|--|--|--|
| Crude Oil Released (bbls) Details  | Not answered.  |  |
| Produced Water Released (bbls) Details   | Cause: Human Error   Flow Line - Injection   Produced Water   Released: 30 BBL  <br>Recovered: 0 BBL   Lost: 30 BBL. |  |
| Is the concentration of chloride in the produced water >10,000 mg/l  | Yes  |  |
| Condensate Released (bbls) Details   | Not answered.  |  |
| Natural Gas Vented (Mcf) Details   | Not answered.  |  |
| Natural Gas Flared (Mcf) Details   | Not answered.  |  |
| Other Released Details   | Not answered.  |  |
| Are there additional details for the questions above (i.e. any answer containing<br>Other, Specify, Unknown, and/or Fire, or any negative lost amounts)                              | Not answered.  |  |

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

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QUESTIONS, Page 2

Action 418620

| QUESTIONS (continued)               |  |
|-------------------------------------|--|
| Operator:                           | OGRID:   |
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137   |
| 333 West Sheridan Ave.              | Action Number:   |
| Oklahoma City, OK 73102             | 418620   |
|                                     | Action Type:   |
|                                     | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| Nature and Volume of Release (continued)  |  |  |
|---|--|--|
| Is this a gas only submission (i.e. only significant Mcf values reported)   | No, according to supplied volumes this does not appear to be a "gas only" report.  |  |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC  | Yes  |  |
| Reasons why this would be considered a submission for a notification of a major release   | From paragraph A. "Major release" determine using:<br>(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. |  |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form. |  |  |

| Initial Response   |   |  |
|--|---|--|
| e responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.   |   |  |
| The source of the release has been stopped   | True  |  |
| The impacted area has been secured to protect human health and the<br>environment  | True  |  |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices   | True  |  |
| All free liquids and recoverable materials have been removed and managed<br>appropriately  | True  |  |
|  | Not answered.<br>ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of |  |
| actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of   |   |  |
| Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.  |   |  |
| 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. |   |  |
| I hereby agree and sign off to the above statement   | Name: James Raley<br>Title: EHS Professional<br>Email: jim.raley@dvn.com<br>Date: 01/08/2025  |  |

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

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QUESTIONS, Page 3

Action 418620

| QUESTIONS (continued) |         |
|-----------------------|---------|
|                       | OGRID:  |
| LP                    | 6137    |
|                       | A 11 AL |

| Operator:                           | OGRID:   |
|-------------------------------------|--|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137   |
| 333 West Sheridan Ave.              | Action Number:   |
| Oklahoma City, OK 73102             | 418620   |
|                                     | Action Type:   |
|                                     | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)   | Between 26 and 50 (ft.)              |
|--|--------------------------------------|
| What method was used to determine the depth to ground water  | Estimate or Other                    |
| Did this release impact groundwater or surface water   | Νο                                   |
| What is the minimum distance, between the closest lateral extents of the release an  | nd the following surface areas:      |
| A continuously flowing watercourse or any other significant watercourse  | Greater than 5 (mi.)                 |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | Between 300 and 500 (ft.)            |
| An occupied permanent residence, school, hospital, institution, or church  | Between 1 and 5 (mi.)                |
| A spring or a private domestic fresh water well used by less than five households<br>for domestic or stock watering purposes | Between 1 and 5 (mi.)                |
| Any other fresh water well or spring   | Between 1 and 5 (mi.)                |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Between 1 and 5 (mi.)                |
| A wetland  | Between 1 and 5 (mi.)                |
| A subsurface mine  | Between 1 and 5 (mi.)                |
| An (non-karst) unstable area   | Between ½ and 1 (mi.)                |
| Categorize the risk of this well / site being in a karst geology   | Medium                               |
| A 100-year floodplain  | Zero feet, overlying, or within area |
| Did the release impact areas not on an exploration, development, production, or storage site                                 | Yes                                  |

#### Remediation Plan

| Please answer all the questions that apply or are indicated. This information must be provide  | d to the appropriate district office no later than 90 days after the release discovery date.                           |
|--|--|
| Requesting a remediation plan approval with this submission  | Yes  |
| Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamin  | ation associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.             |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes  |
| Was this release entirely contained within a lined containment area  | No   |
| Soil Contamination Sampling: (Provide the highest observable value for each, ir  | n milligrams per kilograms.)   |
| Chloride (EPA 300.0 or SM4500 Cl B)  | 48000  |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)  | 11   |
| GRO+DRO (EPA SW-846 Method 8015M)  | 11   |
| BTEX (EPA SW-846 Method 8021B or 8260B)  | 0  |
| Benzene (EPA SW-846 Method 8021B or 8260B)   | 0  |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comp<br>which includes the anticipated timelines for beginning and completing the remediation. | leted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, |
| On what estimated date will the remediation commence   | 03/01/2025   |
| On what date will (or did) the final sampling or liner inspection occur  | 04/01/2025   |
| On what date will (or was) the remediation complete(d)   | 04/01/2025   |
| What is the estimated surface area (in square feet) that will be reclaimed   | 10075  |
| What is the estimated volume (in cubic yards) that will be reclaimed   | 373  |
| What is the estimated surface area (in square feet) that will be remediated  | 10075  |
| What is the estimated volume (in cubic yards) that will be remediated  | 373  |
| These estimated dates and measurements are recognized to be the best guess or calculation a  | at the time of submission and may (be) change(d) over time as more remediation efforts are completed.                  |

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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QUESTIONS, Page 4

Action 418620

| QUESTIONS (continued)                             |  |  |
|---|--|--|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP  | OGRID:<br>6137   |  |
| 333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | Action Number:<br>418620   |  |
|   | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |  |
|   |  |  |

#### QUESTIONS

Remediation Plan (continued)

| Remediation Flan (continued)   |  |  |   |
|--|--|--|---|
| Please answer all the questions that apply or are indicated. This information must be provided to the  |  |  |   |
| This remediation will (or is expected to) utilize the following processes to remediate   | / reduce contaminants:   |  |   |
| (Select all answers below that apply.)   |  |  |   |
| (Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.) Yes  |  |  |   |
| Which OCD approved facility will be used for off-site disposal   | HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]                           |  |   |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal  | Not answered.  |  |   |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state   | No   |  |   |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility   | No   |  |   |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)   | No   |  |   |
| (In Situ) Soil Vapor Extraction  | No   |  |   |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)       No         (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)       No         (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)       No         Ground Water Abatement pursuant to 19.15.30 NMAC       No |  |  |   |
|  |  | OTHER (Non-listed remedial process) No   |   |
|  |  | Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef<br>which includes the anticipated timelines for beginning and completing the remediation. | forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,  |
|  |  | to report and/or file certain release notifications and perform corrective actions for relea<br>the OCD does not relieve the operator of liability should their operations have failed to a  | knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or |
| I hereby agree and sign off to the above statement   | Name: James Raley<br>Title: EHS Professional<br>Email: jim.raley@dvn.com |  |   |

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Date: 01/08/2025

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

| e, NM 87505 |  |
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|-------------|--|

| QUESTIONS (continued)                             |  |  |
|---|--|--|
| Operator:   | OGRID:   |  |
| DEVON ENERGY PRODUCTION COMPANY, LP               | 6137   |  |
| 333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | Action Number:   |  |
|   | 418620   |  |
|   | Action Type:   |  |
|   | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |  |
|   |  |  |

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|    |      |      |   |

| Deferral Requests Only   |   |
|--|---|
| Only answer the questions in this group if seeking a deferral upon approval this submission. Each of | the following items must be confirmed as part of any request for deferral of remediation. |
| Requesting a deferral of the remediation closure due date with the approval of this submission       | No  |

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

| QUESTIONS (continued)                             |  |  |  |
|---|--|--|--|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP  | OGRID:<br>6137   |  |  |
| 333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | Action Number:<br>418620   |  |  |
|   | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |  |  |
| QUESTIONS   |  |  |  |
| Sampling Event Information                        |  |  |  |
| Last sampling notification (C-141N) recorded      | {Unavailable.}   |  |  |

#### **Remediation Closure Request**

| only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. |    |  |
|--|----|--|
| Requesting a remediation closure approval with this submission   | No |  |

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CONDITIONS

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

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| Operator:                           | OGRID:   |
|-------------------------------------|--|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137   |
| 333 West Sheridan Ave.              | Action Number:   |
| Oklahoma City, OK 73102             | 418620   |
|                                     | Action Type:   |
|                                     | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

| Created By | Condition   | Condition<br>Date |
|------------|---|-------------------|
| rhamlet    | A Remediation Plan has already been approved for (Incident Number NKMW1109729911). Please review the conditions of approval (App ID: 442515) that were sent on April 10th, 2025. These conditions of approval can also be viewed on the OCD Permitting Incident Page under Incident Events. | 4/17/2025         |

CONDITIONS

Action 418620