Oil Conservation Division

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# Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

X Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

| Printed Name : John Hurt  | Title:            | RES Specialist                      |
|---|-------------------|-------------------------------------|
| Signature: <u>Clint Talley</u>  | _ Date: 12/05/202 | 22                                  |
| email: <u>JHurt@matadorresources.com</u> .  | Telephone:        | 972-371-5200                        |
|   |                   |                                     |
| OCD Only  |                   |                                     |
| Received by: Jocelyn Harimon  | Date:             | 12/05/2022                          |
| Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. |                   |                                     |
| Closure Approved by: Robert Hamlet  | Date:             | 4/24/2023                           |
| Printed Name: Robert Hamlet   | Title             | Environmental Specialist - Advanced |

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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# **Release Notification**

## **Responsible Party**

| Responsible Party: Matador Production Company                          | OGRID: 228937                              |  |
|--|--|--|
| Contact Name: John Hurt  | Contact Telephone: 972-371-5200            |  |
| Contact email: JHurt@matadorresources.com                              | Incident # (assigned by OCD) NRM2008758101 |  |
| Contact mailing address: 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 |  |  |

## **Location of Release Source**

| Latitude |  |
|----------|--|
|          |  |

32.253397

(NAD 83 in decimal degrees to 5 decimal places)

| Site Name: Tony La Russa State Com 201H/202H | Site Type: Oil Well/Tank Battery           |  |
|--|--|--|
| Date Release Discovered: 03/18/2020          | API# ( <i>if applicable</i> ) 30-015-45964 |  |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| С           | 3       | 24S      | 27E   | Eddy   |

Surface Owner: State Federal Tribal Private (Name: \_

# Nature and Volume of Release

| Materia        | al(s) Released (Select all that apply and attach calculations or specif        | ic justification for the volumes provided below) |  |
|----------------|--|--|--|
| Crude Oil      | Volume Released (bbls)   | Volume Recovered (bbls)                          |  |
| Produced Water | Volume Released (bbls) 16.60 bbls  | Volume Recovered (bbls) 12 bbls                  |  |
|                | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | Yes No   |  |
| Condensate     | Volume Released (bbls)   | Volume Recovered (bbls)                          |  |
| Natural Gas    | Volume Released (Mcf)  | Volume Recovered (Mcf)                           |  |
|                | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)          |  |
| C CD 1         |  |  |  |

Cause of Release:

Pump seal failure on flowline.

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

## **Initial Response**

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

 $\square$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

| Printed Name: John Hurt .                | Title: RES Specialist          |
|--|--------------------------------|
| Signature:Clint Talley                   | Date: <u>12/05/2022</u>        |
| email: <u>JHurt@matadorresources.com</u> | Telephone: <u>972-371-5200</u> |
| OCD Only                                 |                                |
| Received by:                             | Date:                          |

**Received by OCD: 12/5/2022 11:28:01 AM** Form C-141 State of New Mexico

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# Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release?   | <u>&lt; 50</u> (ft bgs) |
|---|-------------------------|
| Did this release impact groundwater or surface water?   | 🗌 Yes 🗴 No              |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | 🗌 Yes 🗶 No              |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | 🗌 Yes 🗶 No              |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | 🗌 Yes 🗶 No              |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | 🗌 Yes 🗶 No              |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | 🗌 Yes 🗶 No              |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | 🗌 Yes 🗴 No              |
| Are the lateral extents of the release within 300 feet of a wetland?  | Yes X No                |
| Are the lateral extents of the release overlying a subsurface mine?   | 🗌 Yes 🗶 No              |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | Yes X No                |
| Are the lateral extents of the release within a 100-year floodplain?  | Yes X No                |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | 🗴 Yes 🗌 No              |

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

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

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

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

| Received by OCD:  | 12/5/2022 11:28:01 AM<br>State of New Mexi   |   |  | <b>Page 5 of 13</b> 4   |
|---|--|---|--|---|
| Form C-141  |  |   | Incident ID  | NRM2008758101   |
| Page 4  | Oil Conservation Div   | ision   | District RP  |   |
|   |  |   | Facility ID  |   |
|   |  |   | Application ID   |   |
| regulations all op<br>public health or the<br>failed to adequate<br>addition, OCD ac<br>and/or regulation | hat the information given above is true and complerators are required to report and/or file certain responses to the environment. The acceptance of a C-141 reported by investigate and remediate contamination that proceptance of a C-141 report does not relieve the ors. | elease notifications and perf<br>rt by the OCD does not reli-<br>pose a threat to groundwater | Form corrective actions for revevente operator of liability<br>r, surface water, human heal<br>compliance with any other | eleases which may endanger<br>should their operations have<br>th or the environment. In |
|   | Clint Talley   | Date:   | 12/05/2022   |   |
| email <u>:</u>  | JHurt@matadorresources.com   | Telephone:  | 972-371-5200   |   |
| OCD Only<br>Received by:  | Jocelyn Harimon  | Date:   | 12/05/2022   |   |

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Oil Conservation Division

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| Facility ID    |               |
| Application ID |               |

# Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

X Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

| Printed Name : John Hurt  | Title:                 | RES Specialist |
|---|------------------------|----------------|
| Signature: <u>Clint Talley</u>  | _ Date: 12/05/202      | 2              |
| email:  | Telephone:             | 972-371-5200   |
|   |                        |                |
|   |                        |                |
| OCD Only  |                        |                |
| Received by: Jocelyn Harimon  | Date:                  | 12/05/2022     |
| Closure approval by the OCD does not relieve the responsible par<br>remediate contamination that poses a threat to groundwater, surfa<br>party of compliance with any other federal, state, or local laws a | ce water, human health |                |
| Closure Approved by:  | Date:                  |                |
| Printed Name:   | Title:                 |                |



January 25, 2021

Vertex Project #: 20E-00239-006

| Spill Closure Report: | Tony La Russa State Com 201H/202H<br>Unit C, Section 3, Township 24 South, Range 27 East<br>County: Eddy<br>NM OCD Incident Tracking Number: NRM2008758101 |
|-----------------------|--|
| Prepared For:         | Matador Production Company<br>5400 LBJ Freeway<br>Suite 1500<br>Dallas, Texas 75240  |

New Mexico Oil Conservation Division – District 2 – Artesia 811 South First Street Artesia, New Mexico 88210

Matador Production Company (Matador) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a produced water release that occurred at Tony La Russa State Com 201H/202H (hereafter referred to as "Tony La Russa"). Matador provided notification of the spill to New Mexico Oil Conservation Division (NM OCD) District 2 and the New Mexico State Land Office (SLO), who owns the land, via submission of an initial C-141 Release Notification on March 27, 2020 (Attachment 1). The NM OCD tracking number assigned to this incident is NRM2008758101.

This letter provides a description of the spill assessment and remediation activities, and demonstrates that closure criteria established in 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from the NM OCD for closure of this release.

### **Incident Description**

On March 18, 2020, a release occurred at Matador's Tony La Russa site when a seal on the produced water pump flowline failed. This incident resulted in the release of approximately 16.60 barrels (bbls) of produced water onto the engineered pad and into adjacent pasture. Upon discovery of the release, a hydrovac truck was dispatched to site to recover free fluids; approximately 12 bbls of produced water were recovered. The spill impacted an area off-lease that had experienced previous disturbance. No produced water was released into undisturbed or sensitive areas, or waterways.

### **Site Characterization**

The release at Tony La Russa occurred on state-owned land, N 32.253397, W 104.181271, approximately 5 miles southwest of Loving, New Mexico. The legal description for the site is Unit C, Section 3, Township 24 South, Range 27 East, Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and farmland. An aerial photograph and site schematics are included in Attachment 2.

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Matador Production Company Tony La Russa State Com 201H/202H

The Tony La Russa complex consists of production and storage equipment, a tank battery, and nearby oil and gas exploration and production wellpads, and is typical of oil and gas-related sites in the western portion of the Permian Basin. The following sections specifically describe the release area in the northern portion of the tank battery containment and the adjacent pasture area east of the engineered pad.

The surrounding landscape is associated with alluvial fans typical of elevations between 1,100 and 4,400 feet above sea level. The climate is semi-arid, with average annual precipitation ranging between 7 and 14 inches. Historically, the plant communities in this area have had a grassland aspect, and the dominant species are black grama, tobosa and blue grama, with a variety of perennial forbs and sparse, evenly distributed shrubs. Grass cover is generally uniformly distributed with few large bare areas (United States Department of Agriculture, Natural Resources Conservation Service, 2020). Limited to no vegetation is allowed to grow on the engineered pad. There is little evidence of vegetation growing in the area of the off-lease portion of the release due to the presence of a lease road along the east side of the site and indications the pasture area is commonly used as a vehicle turnaround.

*The Geological Map of New Mexico* indicates the surface geology at is comprised of Qp – Piedmont alluvial deposits (New Mexico Bureau of Geology and Mineral Resources, 2020). The Natural Resources Conservation Service *Web Soil Survey* characterizes the soil at Tony La Russa as Reagan loam, with a soil profile consisting of deep layers of loam. This soil tends to be well drained with low runoff and moderate available water storage in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2020). There is low to medium potential for karst geology to be present near Tony La Russa (United States Department of the Interior, Bureau of Land Management, 2020).

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is Black River, located approximately 0.85 miles south of the site (United States Fish and Wildlife Service, 2020). At Tony La Russa, there are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest recent well to the site is a New Mexico Office of the State Engineer-identified well, located approximately 0.8 miles northeast of Tony La Russa, with a depth to groundwater of 67 feet below ground surface (bgs; New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2020). Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

### **Closure Criteria Determination**

Using site characterization information, a closure criteria determination worksheet (Attachment 3) was completed to determine if the release was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Based on data included in the closure criteria determination worksheet, the release at Tony La Russa is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. As Tony La Russa is located in an area with medium potential for karst, and the nearest groundwater well is farther than 0.5-miles from the release site, the closure criteria for the site are determined to be associated with the following constituent concentration limits.

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#### Matador Production Company

Tony La Russa State Com 201H/202H

| Table 1. Closure Criteria for Soils Impacted by a Release |                                       |           |  |
|---|---------------------------------------|-----------|--|
| Depth to Groundwater                                      | Constituent                           | Limit     |  |
| < 50 feet   | Chloride                              | 600 mg/kg |  |
|   | TPH <sup>1</sup><br>(GRO + DRO + MRO) | 100 mg/kg |  |
|   | BTEX <sup>2</sup>                     | 50 mg/kg  |  |
|   | Benzene                               | 10 mg/kg  |  |

<sup>1</sup>Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) <sup>2</sup>Benzene, toluene, ethylbenzene and xylenes (BTEX)

#### **Remedial Actions**

Initial spill inspection and site characterization activities at Tony La Russa were completed by Vertex on March 19, 2020. The Daily Field Report (DFR) associated with the site visit is included in Attachment 4. A selection of characterization soil samples was submitted for laboratory analysis to confirm the field screening data. Using initial field screening and soil sample laboratory data, as presented in Table 2 (Attachment 5), the release was delineated horizontally and vertically as presented on Figure 1 (Attachment 2), and a remediation plan was developed. On April 16, 2020, Vertex provided 48-hour notification of confirmation sampling to the NM OCD (Attachment 6), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC.

Excavation of impacted soils was conducted between April 20 and 21, 2020, with a Vertex representative on-site to conduct field screening to guide the excavation and determine final horizontal and vertical extents of the excavation area as presented on Figure 2 (Attachment 2). Waste manifests are included in Attachment 4. As remediation activities were completed, Vertex collected a total of 18 five-point composite confirmatory samples from the base and side walls of the excavation, at depths ranging between ground surface and 0.5 feet bgs on-lease and ground surface to 2 feet bgs in the pasture (off-lease). Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NM OCD approval. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sample analytical data are summarized in Table 3 (Attachment 5). Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are presented on Figure 2 (Attachment 2). Relevant equipment and prominent features/reference points at the site are mapped as well.

### **Closure Request Denial and Additional Activities**

On July 27, 2020, Matador requested closure for the release at Tony La Russa, at Vertex's recommendation. On November 20, 2020, the NM OCD denied closure for this incident based on the following:

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- The release occurred in a High Karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule.
- When nearby wells are used to determine depth to groundwater, the wells should be no further than ½-mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to groundwater within a ½-mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for groundwater at a depth of 50 feet or less.

On November 27, 2020, Vertex provided 48-hour notification of additional remediation and confirmation sampling to NM OCD, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC (Attachment 5). On December 2, 2020, Vertex was onsite to oversee additional remediation of the failed confirmatory sampling locations, using field screening methods to guide excavation and verify that the release was remediated to the extent required.

Following the completion of additional remediation activities, Vertex re-collected 2 five-point composite confirmatory samples from the base and sidewall of the release area. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NM OCD approval. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a NELAP-approved laboratory for chemical analysis.

Laboratory analysis included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. The new confirmatory sampling analytical data are summarized alongside the original confirmatory sampling data in Table 3 (Attachment 6). Laboratory data reports and chain of custody forms are included in Attachment 7.

The re-collected confirmatory sample locations remained as presented on the original Figure 2 (Attachment 2).

### **Closure Request**

Vertex recommends no additional action to address the release at Tony La Russa. Laboratory analyses of confirmatory samples, including the two re-collected confirmatory samples, show constituent of concern concentration levels below the most-strict NM OCD closure criteria as presented in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Initial remediation efforts for the portion of the release that occurred off-lease included excavation of contaminated materials to levels meeting NM OCD restoration and reclamation requirements as outlined in 19.15.29.13 NMAC. The excavation was backfilled with non-waste-containing, uncontaminated, earther material, sourced locally, and placed to meet the site's existing grade to prevent ponding of water and erosion, and aid in the establishment of vegetation.

Vertex requests that this incident (NRM2008758101) be closed as the original closure request denial (Attachment 8) reasons have been addressed and all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Matador certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NM OCD requirements to obtain closure on the March 18, 2020, release at Tony La Russa.

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#### Matador Production Company Tony La Russa State Com 201H/202H

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 505.506.0040 or ngordon@vertex.ca.

Sincerely,

atabe fordon

Natalie Gordon PROJECT MANAGER

### Attachments

- Attachment 1. NM OCD C-141 Report
- Attachment 2. Figures
- Attachment 3. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 4. Daily Field Report(s) with Photographs and Waste Manifests
- Attachment 5. Tables
- Attachment 6. Required 48-hr Notification of Confirmation Sampling to Regulatory Agencies
- Attachment 7. Laboratory Data Reports/Chain of Custody Forms
- Attachment 8. NM OCD Original Closure Denial

## Matador Production Company

Tony La Russa State Com 201H/202H

#### References

- New Mexico Bureau of Geology and Mineral Resources. (2020). *Interactive Geologic Map.* Retrieved from http://geoinfo.nmt.edu
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2020). *Water Column/Average* Depth to Water Report. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html.
- United States Department of Agriculture, Natural Resources Conservation Service. (2020). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of the Interior, Bureau of Land Management. (2020). *New Mexico Cave/Karsts*. Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico
- United States Fish and Wildlife. (2020). *National Wetlands Inventory*. Retrieved from https://www.fws.gov /wetlands/Data/Mapper.html

2020 Spill Assessment and Closure January 2021

#### Limitations

This report has been prepared for the sole benefit of Matador Production Company (Matador). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Matador. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

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# **ATTACHMENT 1**

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

State of New Mexico Energy Minerals and Natural Resources Department

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

| Incident ID    | NRM2008758101 |
|----------------|---------------|
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

# **Release Notification**

### **Responsible Party**

| Responsible Party: Matador Production Company                | OGRID: 228937                   |  |
|--|---------------------------------|--|
| Contact Name: John Hurt                                      | Contact Telephone: 972-371-5200 |  |
| Contact email: JHurt@matadorresources.com                    | Incident # (assigned by OCD)    |  |
| Contact mailing address: 5400 LBJ Freeway, Suite 1500 Dallas | , TX 75240                      |  |

### Location of Release Source

| Latitude   | 32.253397                         | Longitude -104.181271                        |  |
|------------|-----------------------------------|--|--|
|            | (NA)                              | 0.83 in decimal degrees to 5 decimal places) |  |
| Site Name: | Tony La Russa State Com 201H/202H | Site Type: Oil Well-Tank Battery             |  |

| Site Name: Tony La Russa State Com 201H/202H | Site Type: Oil Well-Tank Battery  |
|--|-----------------------------------|
| Date Release Discovered: 01/24/2020          | API# (if applicable) 30-015-45964 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| С           | 3       | 24S      | 27E   | Eddy   |

Surface Owner: State Federal Tribal Private (Name:

## Nature and Volume of Release

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

| Crude Oil         | Volume Released (bbls)   | Volume Recovered (bbls)                 |  |
|-------------------|--|---|--|
| Produced Water    | Volume Released (bbls) 16.60 bbls  | Volume Recovered (bbls) 12 bbls         |  |
|                   | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | Yes No                                  |  |
| Condensate        | Volume Released (bbls)   | Volume Recovered (bbls)                 |  |
| Natural Gas       | Volume Released (Mcf)  | Volume Recovered (Mcf)                  |  |
|                   | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units) |  |
|                   |  |   |  |
| Cause of Release: |  |   |  |

Pump seal failure on flowline.

#### Rece

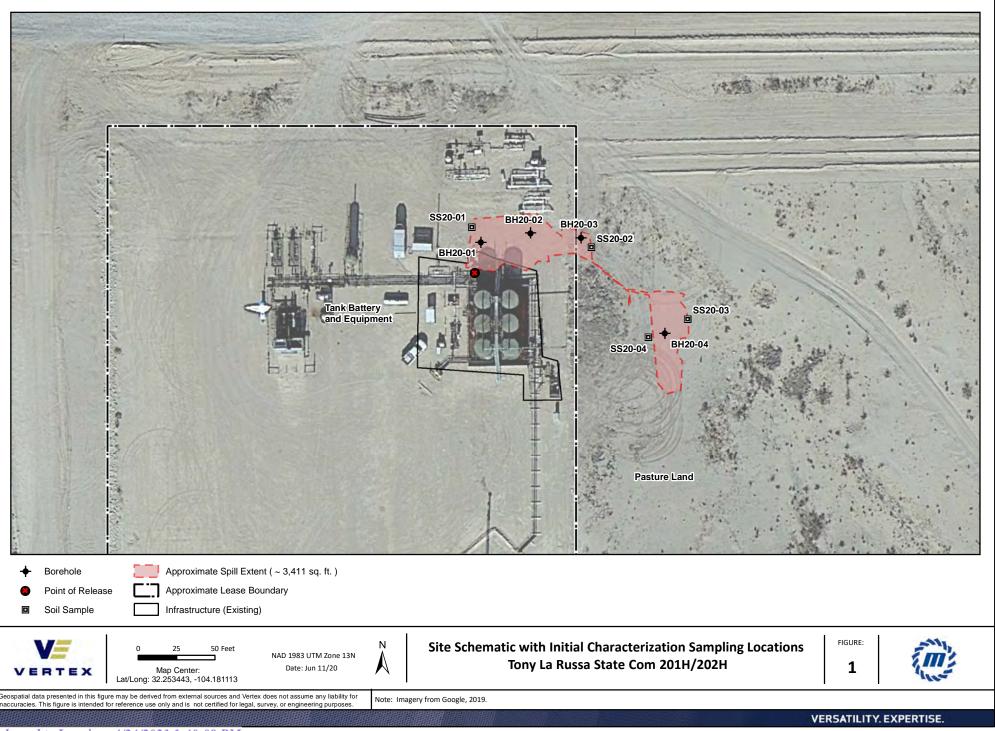
| orm C-141  | Ntate of New  | / Mexico   |  |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|--|--|
| 3  | Oil Conservatio   |  | Incident ID  | NRM2008758101  |  |  |  |  |  |  |
| ge 2   | On Conservatio  | on Division  | District RP  |  |  |  |  |  |  |  |
|  |   |  | Facility ID  |  |  |  |  |  |  |  |
|  |   |  | Application II   |  |  |  |  |  |  |  |
| Was this a major<br>release as defined by<br>19.15.29.7(A) NMAC?   | If YES, for what reason(s) does the responsible party consider this a major release?  |  |  |  |  |  |  |  |  |  |
| Yes No   |   |  |  |  |  |  |  |  |  |  |
|  |   |  |  |  |  |  |  |  |  |  |
| If YES, was immediate r  | notice given to the OCD? By   | y whom? To whom? Whe   | n and by what means (phor  | ne, email, etc)?   |  |  |  |  |  |  |
|  |   | Initial Response   |  |  |  |  |  |  |  |  |
| The responsible  | party must undertake the following  | -  |  | would result in injury   |  |  |  |  |  |  |
| The source of the rel  | ease has been stopped.  |  |  |  |  |  |  |  |  |  |
| The impacted area ha   | as been secured to protect hu   | man health and the environ   | iment  |  |  |  |  |  |  |  |
|  |   | inian nearm and the chymor   |  |  |  |  |  |  |  |  |
|  | -   |  |  | ment devices   |  |  |  |  |  |  |
| Released materials h   | ave been contained via the u  | se of berms or dikes, absor  | bent pads, or other contain  | ment devices.  |  |  |  |  |  |  |
| <ul><li>Released materials h</li><li>All free liquids and r</li></ul>  | ave been contained via the u<br>recoverable materials have be   | ise of berms or dikes, absor<br>een removed and managed  | bent pads, or other contain  | ment devices.  |  |  |  |  |  |  |
| <ul><li>Released materials h</li><li>All free liquids and r</li></ul>  | ave been contained via the u  | ise of berms or dikes, absor<br>een removed and managed  | bent pads, or other contain  | ment devices.  |  |  |  |  |  |  |
| <ul><li>Released materials h</li><li>All free liquids and r</li></ul>  | ave been contained via the u<br>recoverable materials have be   | ise of berms or dikes, absor<br>een removed and managed  | bent pads, or other contain  | ment devices.  |  |  |  |  |  |  |
| <ul><li>Released materials h</li><li>All free liquids and r</li></ul>  | ave been contained via the u<br>recoverable materials have be   | ise of berms or dikes, absor<br>een removed and managed  | bent pads, or other contain  | ment devices.  |  |  |  |  |  |  |
| <ul><li>Released materials h</li><li>All free liquids and r</li></ul>  | ave been contained via the u<br>recoverable materials have be   | ise of berms or dikes, absor<br>een removed and managed  | bent pads, or other contain  | ment devices.  |  |  |  |  |  |  |
| <ul><li>Released materials h</li><li>All free liquids and r</li></ul>  | ave been contained via the u<br>recoverable materials have be   | ise of berms or dikes, absor<br>een removed and managed  | bent pads, or other contain  | ment devices.  |  |  |  |  |  |  |
| <ul><li>Released materials h</li><li>All free liquids and r</li></ul>  | ave been contained via the u<br>recoverable materials have be   | ise of berms or dikes, absor<br>een removed and managed  | bent pads, or other contain  | ment devices.  |  |  |  |  |  |  |
| Released materials h   | ave been contained via the u<br>recoverable materials have b<br>a above have <u>not</u> been under  | ise of berms or dikes, absor<br>een removed and managed<br>rtaken, explain why:  | bent pads, or other contain<br>appropriately.  |  |  |  |  |  |  |  |
| <ul> <li>Released materials h</li> <li>All free liquids and r</li> <li>If all the actions describe</li> <li>Per 19.15.29.8 B. (4) NM</li> <li>has begun, please attach</li> </ul>  | ave been contained via the u<br>recoverable materials have be   | ise of berms or dikes, absor<br>een removed and managed<br>rtaken, explain why:<br>hay commence remediation<br>te. If remedial efforts have  | bent pads, or other contain<br>appropriately.<br>immediately after discoves<br>been successfully comple  | ry of a release. If remediatieted or if the release occurr   |  |  |  |  |  |  |
| <ul> <li>Released materials h</li> <li>All free liquids and r</li> <li>If all the actions describe</li> <li>Per 19.15.29.8 B. (4) NM</li> <li>has begun, please attach</li> <li>within a lined containment</li> <li>I hereby certify that the infor</li> <li>regulations all operators are</li> <li>public health or the environt</li> <li>failed to adequately investig</li> </ul>  | ave been contained via the u<br>recoverable materials have be<br>above have <u>not</u> been under<br>AC the responsible party m<br>a narrative of actions to dat  | ise of berms or dikes, absor<br>een removed and managed<br>rtaken, explain why:<br>hay commence remediation<br>te. If remedial efforts have<br>5)(a) NMAC), please attact<br>d complete to the best of my ke<br>ertain release notifications and<br>41 report by the OCD does no<br>on that pose a threat to ground  | bent pads, or other contain<br>appropriately.<br>immediately after discover<br>e been successfully complete<br>n all information needed for<br>nowledge and understand that<br>perform corrective actions for<br>t relieve the operator of liabili<br>water, surface water, human h                              | ry of a release. If remediati<br>eted or if the release occurr<br>r closure evaluation.<br>pursuant to OCD rules and<br>r releases which may endanger<br>ty should their operations have<br>ealth or the environment. In   |  |  |  |  |  |  |
| Released materials h<br>All free liquids and r<br>If all the actions describe<br>Per 19.15.29.8 B. (4) NM<br>has begun, please attach<br>within a lined containment<br>I hereby certify that the infor<br>regulations all operators are<br>public health or the environ<br>failed to adequately investig<br>addition, OCD acceptance o   | ave been contained via the u<br>recoverable materials have be<br>ad above have <u>not</u> been under<br>MAC the responsible party m<br>a narrative of actions to dat<br>nt area (see 19.15.29.11(A)(<br>ormation given above is true and<br>required to report and/or file ce<br>ment. The acceptance of a C-14<br>gate and remediate contaminatio<br>of a C-141 report does not reliev | een removed and managed<br>rtaken, explain why:<br>nay commence remediation<br>te. If remedial efforts have<br>5)(a) NMAC), please attact<br>d complete to the best of my ke<br>ertain release notifications and<br>41 report by the OCD does no<br>on that pose a threat to ground-<br>ve the operator of responsibility                                  | bent pads, or other contain<br>appropriately.<br>immediately after discove:<br>e been successfully comple<br>n all information needed fo<br>nowledge and understand that<br>perform corrective actions fo<br>t relieve the operator of liabili<br>water, surface water, human h<br>y for compliance with any oth | ry of a release. If remediatieted or if the release occurr<br>r closure evaluation.<br>pursuant to OCD rules and<br>r releases which may endanger<br>ty should their operations have<br>ealth or the environment. In       |  |  |  |  |  |  |
| <ul> <li>Released materials h</li> <li>All free liquids and r</li> <li>If all the actions describe</li> <li>Per 19.15.29.8 B. (4) NM</li> <li>has begun, please attach</li> <li>within a lined containment</li> <li>I hereby certify that the information regulations all operators are public health or the environmation failed to adequately investig addition, OCD acceptance of and/or regulations.</li> <li>Printed Name:</li> </ul> | ave been contained via the u<br>recoverable materials have be<br>ad above have <u>not</u> been under<br>MAC the responsible party m<br>a narrative of actions to dat<br>nt area (see 19.15.29.11(A)(<br>ormation given above is true and<br>required to report and/or file ce<br>ment. The acceptance of a C-14<br>gate and remediate contaminatio<br>of a C-141 report does not reliev | ise of berms or dikes, absor<br>een removed and managed<br>rtaken, explain why:<br>hay commence remediation<br>te. If remedial efforts have<br>5)(a) NMAC), please attack<br>d complete to the best of my ke<br>ertain release notifications and<br>41 report by the OCD does no<br>in that pose a threat to groundy<br>the operator of responsibility<br> | bent pads, or other contain<br>appropriately.<br>immediately after discover<br>e been successfully complete<br>n all information needed for<br>nowledge and understand that<br>perform corrective actions for<br>t relieve the operator of liabili<br>water, surface water, human h                              | ry of a release. If remediatieted or if the release occurr<br>r closure evaluation.<br>pursuant to OCD rules and<br>r releases which may endanger<br>ty should their operations have<br>ealth or the environment. In       |  |  |  |  |  |  |
| <ul> <li>Released materials h</li> <li>All free liquids and r</li> <li>If all the actions describe</li> <li>Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment</li> <li>I hereby certify that the inforegulations all operators are public health or the environment</li> <li>failed to adequately investig addition, OCD acceptance of and/or regulations.</li> </ul>   | ave been contained via the u<br>recoverable materials have be<br>ad above have <u>not</u> been under<br>MAC the responsible party m<br>a narrative of actions to dat<br>nt area (see 19.15.29.11(A)(<br>ormation given above is true and<br>required to report and/or file ce<br>ment. The acceptance of a C-14<br>gate and remediate contaminatio<br>of a C-141 report does not reliev | een removed and managed<br>rtaken, explain why:<br>nay commence remediation<br>te. If remedial efforts have<br>5)(a) NMAC), please attact<br>d complete to the best of my ke<br>ertain release notifications and<br>41 report by the OCD does no<br>on that pose a threat to ground-<br>ve the operator of responsibility                                  | bent pads, or other contain<br>appropriately.<br>immediately after discove:<br>e been successfully comple<br>n all information needed fo<br>nowledge and understand that<br>perform corrective actions fo<br>t relieve the operator of liabili<br>water, surface water, human h<br>y for compliance with any oth | ry of a release. If remediative<br>eted or if the release occurr<br>r closure evaluation.<br>pursuant to OCD rules and<br>r releases which may endanger<br>ty should their operations have<br>ealth or the environment. In |  |  |  |  |  |  |

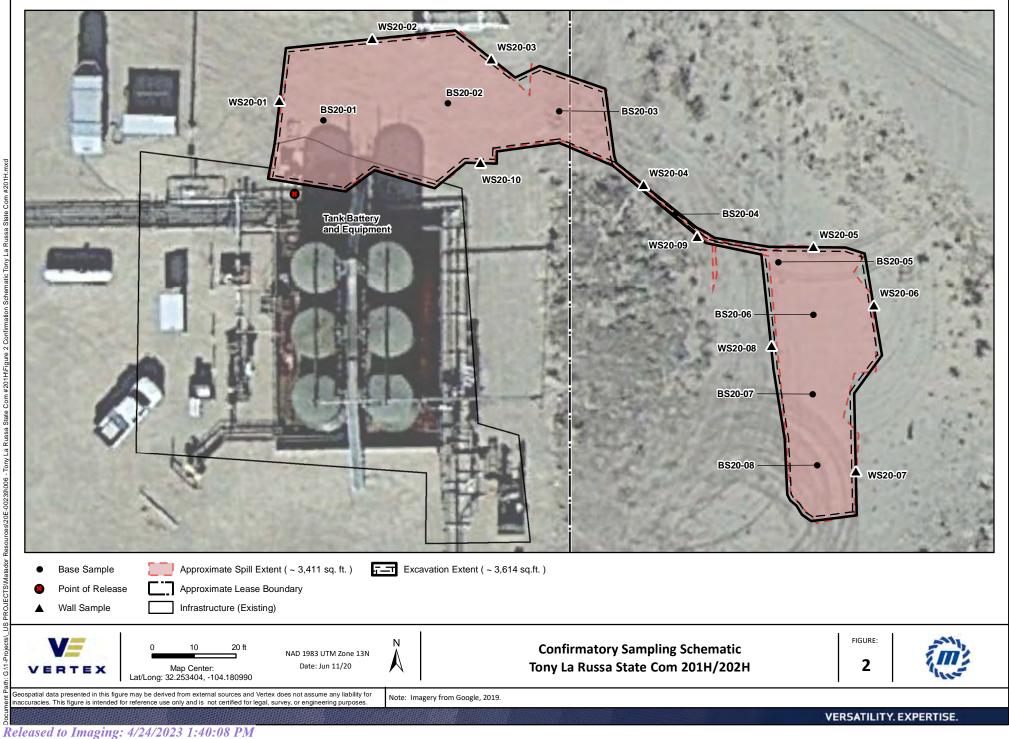
Received by: <u>Ramona Marcus</u>

3/27/2020 Date:

# **ATTACHMENT 2**

Г





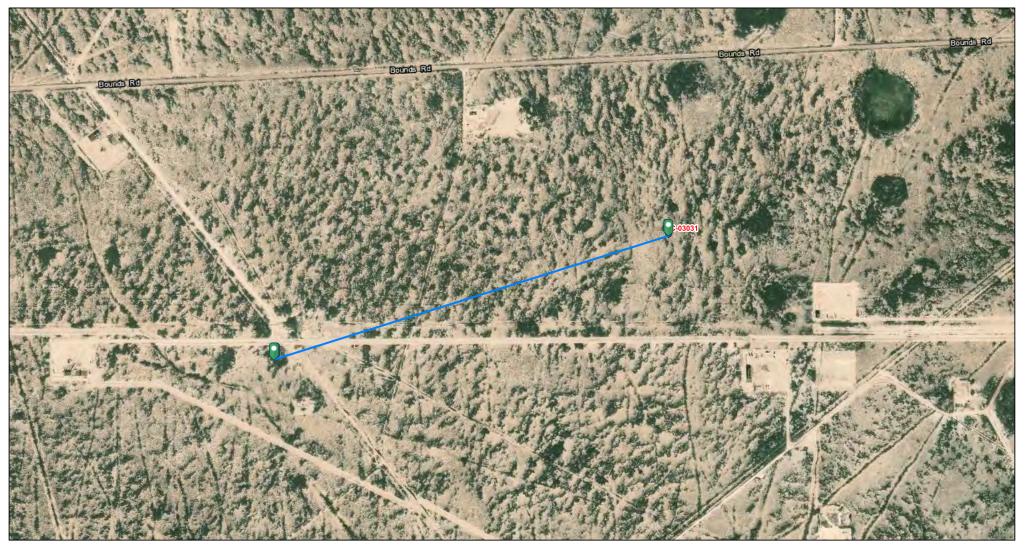
¢201H.

# **ATTACHMENT 3**

•

| mill Coo | e: Tony La Russa State Com #201H<br>rdinates:   | X: 32.253397 | Y: -104.181271                    |
|----------|---|--------------|-----------------------------------|
| -        | ific Conditions   | Value        | Unit                              |
| 1        | Depth to Groundwater  | 67           | feet                              |
| 2        | Within 300 feet of any continuously flowing<br>watercourse or any other significant watercourse   | 4,484        | feet                              |
| 3        | Within 200 feet of any lakebed, sinkhole or playa lake<br>(measured from the ordinary high-water mark)  | 19,921       | feet                              |
| 4        | Within 300 feet from an occupied residence, school, hospital, institution or church   | 10,803       | feet                              |
| 5        | <ul> <li>i) Within 500 feet of a spring or a private, domestic<br/>fresh water well used by less than five households for<br/>domestic or stock watering purposes, or</li> </ul>  | 10,803       | feet                              |
|          | ii) Within 1000 feet of any fresh water well or spring  | 10,803       | feet                              |
| 6        | Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves | No           | (Y/N)                             |
| 7        | Within 300 feet of a wetland  | 20,074       | feet                              |
| 8        | Within the area overlying a subsurface mine   | No           | (Y/N)                             |
| 9        | Within an unstable area (Karst Map)   | Low          | Critical<br>High<br>Medium<br>Low |
| 10       | Within a 100-year Floodplain  | >100         | year                              |
| 11       | Soil Type   |              |                                   |
| 12       | Ecological Classification   |              |                                   |
| 13       | Geology   |              |                                   |
|          | NMAC 19.15.29.12 E (Table 1) Closure Criteria   | >100'        | <50'<br>51-100'<br>>100'          |

# Tony La Russa distance to Well



5/7/2020, 12:45:27 PM

OSE District Boundary

GIS WATERS PODs

Active

|   |      | 1:9,0 | )28    |        |
|---|------|-------|--------|--------|
| 0 | 0.07 | 0.15  | 0.3 mi |        |
| 0 | 0.15 | 0.3   |        | 0.6 km |

Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and

The New Mexico Office of the State Engineer (OSE) provides this geographic data and any associated metadata "as is" without warranty of any kind, including but not limited to its completeness, fitness for a particular use, or accuracy of its content, positional or otherwise. It is the sole responsibility of the user to

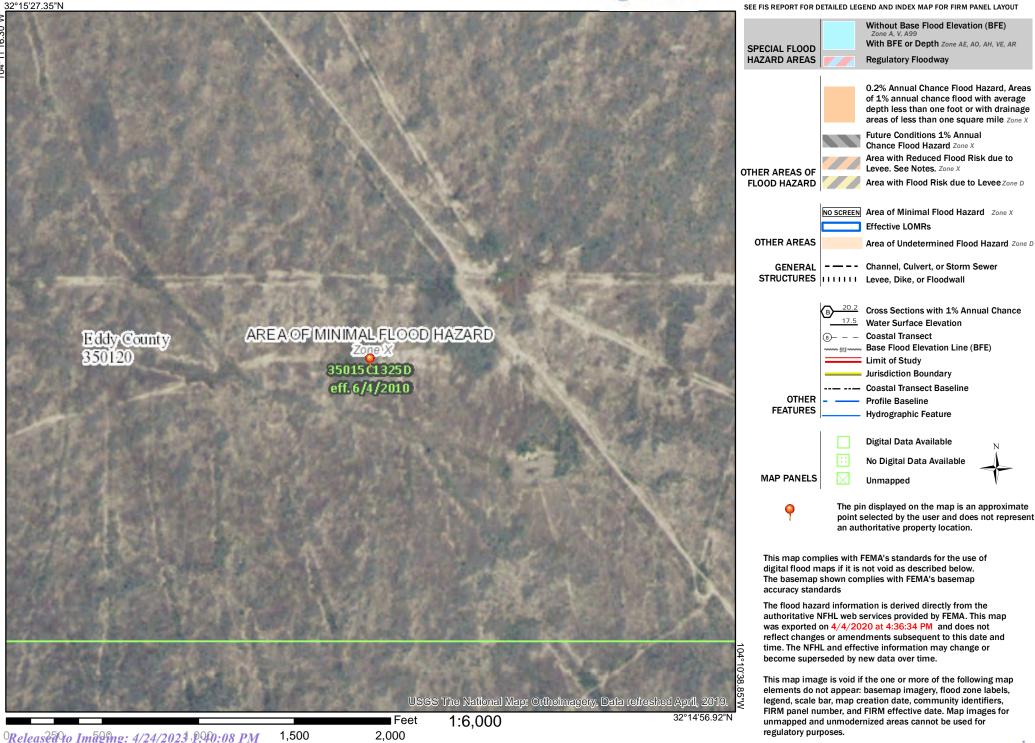
# National Flood Hazard Layer FIRMette



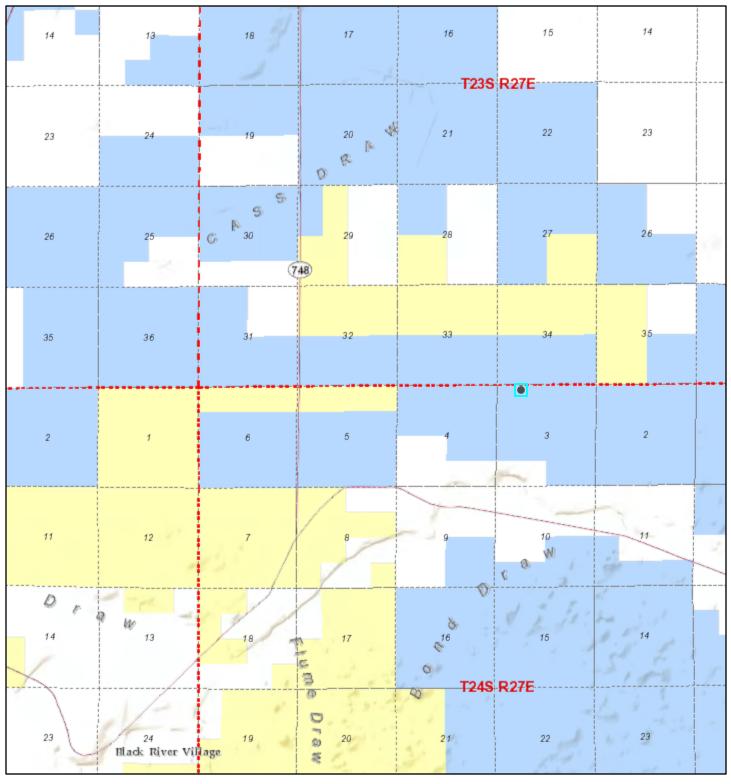
# Legend

# SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

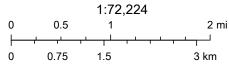
Page 23 of 134



# Active Mines near Tony La Russa 201H



4/4/2020, 2:40:23 PM



U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

### Received by OCD: 12/5/2022 11:28:01 AM Iony La Russa State Com 201H/202H

Nearest Town: Loving, NM Distance: 5.46 miles



125

2 mi

Loving

\*\* Contra Mar In Station

Tony La Russa 32.253397, -104.181271



|          |         | <50'    |
|----------|---------|---------|
| Column1  | Column1 |         |
| Critical | Yes     | 51-100' |
| High     | No      | >100'   |
| Medium   |         |         |
| Low      |         |         |



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

|                   |                     | (quarte    | ers are sma | llest to   | o largest) | , i i i i i i i i i i i i i i i i i i i | (NAD83 U   | TM in meters)   |         |  |  |
|-------------------|---------------------|------------|-------------|------------|------------|---|------------|-----------------|---------|--|--|
| Well Tag PO       | D Number            | Q64 (      | Q16 Q4      | Sec        | Tws        | Rng                                     | Х          | Y               |         |  |  |
| С                 | 03031               | 1          | 3 3         | 35         | 23S        | 27E                                     | 578315     | 3569206* 🌍      |         |  |  |
| Driller License:  | 685                 | Driller    | Compan      | ıy:        | BRA        | AZEAL,                                  | JOHN       |                 |         |  |  |
| Driller Name:     | WAYNE BRAZE         | EAL        |             |            |            |   |            |                 |         |  |  |
| Drill Start Date: | Drill Fi            | nish Dat   | e:          | 06/16/2004 |            |   | Plug Date: |                 |         |  |  |
| Log File Date:    | PCW R               | cv Date    | :           |            |            | Se                                      | ource:     | Shallow         |         |  |  |
| Pump Type:        |                     | Pipe Dis   | scharge     | Size       | :          |   | Es         | stimated Yield: | 50 GPM  |  |  |
| Casing Size:      | 6.00                | Depth V    | Vell:       |            | 15         | 0 feet                                  | D          | epth Water:     | 67 feet |  |  |
| Wa                | ter Bearing Stratif | ïcations:  | To          | p l        | Bottom     | Descri                                  | ption      |                 |         |  |  |
|                   |                     |            | 13          | 39         | 150        | Other/                                  | Unknown    |                 |         |  |  |
|                   | Casing Per          | forations: | То          | p 1        | Bottom     |   |            |                 |         |  |  |
|                   |                     |            | ç           | 90         | 150        |   |            |                 |         |  |  |

#### \*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 for any particular purpose of the data.

5/7/20 10:49 AM

POINT OF DIVERSION SUMMARY



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

(with Ownership Information)

|                  | (acre   | ft per annum)  |    | •                   |       | (R=POD has been re<br>and no longer serves<br>C=the file is closed) | s this file, (quarters are |      |         |        | UTM in meters) |          |
|------------------|---------|--|----|---------------------|-------|---|----------------------------|------|---------|--------|----------------|----------|
|                  | Sub     |  | _  |                     | Well  |   | q q q                      |      |         |        |                |          |
| WR File Nbr      |         |  |    | POD Number          | Tag   | Code Grant  | Source 6416 4              |      |         | X      | Y              | Distance |
| <u>C 03031</u>   | C DOL   | 3 ROBBY WALTERSCHEID   | ED | <u>C 03031</u>      |       |   | Shallow 1 3 3              | 35   | 235 27E | 578315 | 3569206* 🌍     | 1381     |
| RA 00873         | RA IRR  | 0 JEFFREY P SCHULTZ  | СН | RA 00873            |       |   | 121                        | 10   | 24S 27E | 577104 | 3567159* 🌍     | 1658     |
| <u>C 00364</u>   | CUB CLS | 0 A.J. CRAWFORD  | ED | <u>C 00364</u>      |       | С   | 1 2                        | 09 2 | 24S 27E | 575997 | 3567043* 🌍     | 2030     |
| SD 00431         | CUB IRR | 840 POLLED ANGUS CATTLE<br>COMPANY OF CARLSBAD                     | ED | SD 00431            |       |   | 2                          | 10   | 24S 27E | 577807 | 3566860* 🌍     | 2117     |
| <u>C 00821</u>   | C PRO   | 0 UNION OIL CO. OF CALIFORNIA                                      | ED | <u>C 00821</u>      |       |   | Shallow 3 2                | 09 2 | 24S 27E | 575996 | 3566635* 🌍     | 2394     |
| <u>C 00850</u>   | C PRO   | 0 UNION OIL CO. OF CALIFORNIA                                      | ED | <u>C 00850</u>      |       |   | Shallow 2 3                | 09 2 | 24S 27E | 575595 | 3566223* 🌍     | 2942     |
| <u>C 02453</u>   | C DOL   | 3 DAVID M. SQUIRES   | ED | <u>C 02453</u>      |       |   | Shallow 4 4 2              | 29   | 23S 27E | 574876 | 3571372* 🌍     | 3319     |
| <u>C 01767</u>   | C DOM   | 0 WAYNE BRAZEAL  | ED | <u>C 01767</u>      |       |   | 1 4                        | 29   | 23S 27E | 574375 | 3571062* 🌍     | 3448     |
| <u>C 04405</u>   | C DOM   | 1 GABINO GAMINO JR   | ED | C 04405 POD1        | 2236E |   | 432                        | 29   | 23S 27E | 574384 | 3571316 🌍      | 3613     |
| <u>C 01366</u>   | CUB EXP | 0 HARLEY DAVIS   | ED | <u>C 01366</u>      |       |   | Shallow 4                  | 08   | 24S 27E | 574590 | 3566003* 🌍     | 3695     |
| <u>C 02377</u>   | C DOM   | 3 LOUIS G FANNING  | ED | <u>C 02377</u>      |       |   | Shallow 2                  | 29   | 23S 27E | 574575 | 3571666* 😑     | 3737     |
| <u>C 03416</u>   | CUB EXP | 0 JAMES S DAVIS  | ED | C 03416 POD1        |       |   | 314                        | 08   | 24S 27E | 574271 | 3566180 🌍      | 3784     |
| <u>C 00518</u>   | CUB IRR | 199.5 OTIS MUTUAL DOMESTIC WTR<br>CONSUMERS & SEWER WORKS<br>ASSOC |    | <u>C 00518 POD2</u> |       |   | Shallow 2 4 4              | 22   | 23S 27E | 578105 | 3572431* 😜     | 3785     |
| <u>C 00518 A</u> | CUB MDW | 123.9 OTIS WATER USERS CO OP                                       | ED | C 00518 POD2        |       |   | Shallow 2 4 4              | 22   | 23S 27E | 578105 | 3572431* 🌍     | 3785     |
| <u>C 03219</u>   | CUB EXP | 0 OTIS WATER CO-OP   | ED | C 00518 POD2        |       |   | Shallow 2 4 4              | 22   | 23S 27E | 578105 | 3572431* 🌍     | 3785     |
| <u>C 01473</u>   | CUB IRR | 354 WILLIAM D. COLWELL   | ED | <u>C 01473</u>      |       |   | Shallow 1 1 3              | 25   | 23S 27E | 579919 | 3571254* 🌍     | 3812     |
| <u>C 00516</u>   | CUB EXP | 72.4 BARBARA DAVIS   | ED | C 00516 POD5        |       |   | 134                        | 08   | 24S 27E | 574286 | 3565921 🌍      | 3959     |

\*UTM location was derived from PLSS - see Help

|                  | (acre f       | t per annum)   |        |                  |      | and no longer serves th C=the file is closed) |         |        |     | W 2=NE 3=SW<br>lest to largest) |        | UTM in meters | 1        |
|------------------|---------------|--|--------|------------------|------|---|---------|--------|-----|---------------------------------|--------|---------------|----------|
|                  | Sub           | . ,  |        |                  | Well | ,   | (-1     | qqq    |     |                                 |        |               |          |
| WR File Nbr      | basin Use Div | version Owner C  | County | POD Number       | Tag  | Code Grant                                    | Source  | 6416 4 | Sec | Tws Rng                         | х      | Y             | Distance |
|                  |               |  | ED     | <u>C 00516</u>   |      |   | Shallow | 134    | 08  | 24S 27E                         | 574288 | 3565901* 🧲    | 3972     |
|                  |               |  | ED     | C 00516 POD3     |      |   |         | 134    | 08  | 24S 27E                         | 574288 | 3565901*      | 3972     |
|                  |               |  | ED     | <u>C 00516 S</u> |      |   | Shallow | 134    | 08  | 24S 27E                         | 574288 | 3565901 🌍     | 3972     |
| <u>C 03708</u>   | C PRO         | 0 BARBARA DAVIS  | ED     | <u>C 00516 S</u> |      |   | Shallow | 134    | 08  | 24S 27E                         | 574288 | 3565901 🌍     | 3972     |
| C 02567          | C DOM         | 3 JEROME SMITH   | ED     | <u>C 02567</u>   |      |   | Shallow | 212    | 26  | 23S 27E                         | 579314 | 3572049* 🍯    | 3983     |
| <u>C 01606</u>   | C DOL         | 0 JOHN BRAZEAL   | ED     | <u>C 01606</u>   |      |   |         | 12     | 29  | 23S 27E                         | 574372 | 3571869*      | 4023     |
| <u>C 01719</u>   | C DOL         | 0 JOHN BRAZEAL   | ED     | <u>C 01719</u>   |      |   |         | 12     | 29  | 23S 27E                         | 574372 | 3571869*      | 4023     |
| <u>C 01775</u>   | C DOL         | 0 JOHN BRAZEAL   | ED     | <u>C 01719</u>   |      |   |         | 12     | 29  | 23S 27E                         | 574372 | 3571869* 🍯    | 4023     |
|                  |               |  | ED     | <u>C 01775</u>   |      |   |         | 12     | 29  | 23S 27E                         | 574372 | 3571869* 🍯    | 4023     |
| C 03489          | CUB EXP       | 0 JAMES S. DAVIS   | ED     | C 03489 POD1     |      |   | Shallow | 243    | 08  | 24S 27E                         | 574153 | 3565939 🧲     | 4038     |
| C 03092          | C DOM         | 3 JAMES S DAVIS  | ED     | <u>C 03092</u>   |      |   | Shallow | 431    | 08  | 24S 27E                         | 573678 | 3566501* 🍯    | 4039     |
| <u>C 02112</u>   | C STK         | 3 GEORGE MICHAELIS   | ED     | <u>C 02112</u>   |      |   | Shallow | 134    | 13  | 21S 24E                         | 573830 | 3571337 🍯     | 4043     |
| C 00631          | C SAN         | 3 GIRL SCOUTS OF AMERICA   | ED     | <u>C 00631</u>   |      |   | Shallow | 334    | 08  | 24S 27E                         | 574288 | 3565701* 🧲    | 4121     |
| C 01837          | C PRO         | 0 HEYCO  | ED     | <u>C 01837</u>   |      |   |         |        | 22  | 23S 27E                         | 577395 | 3572916* 🧲    | 4122     |
| C 03260          | C STK         | 3 CLARAMAI R HAYHURST  | ED     | C 03260 POD1     |      |   | Shallow | 333    | 12  | 24S 27E                         | 579994 | 3565935 🧲     | 4160     |
| C 03837          | C PRO         | 0 DEVON ENERGY CO  | ED     | C 03260 POD1     |      |   | Shallow | 333    | 12  | 24S 27E                         | 579994 | 3565935 🧲     | 4160     |
| C 03838          | C PRO         | 0 DEVON ENERGY CO  | ED     | C 03260 POD1     |      |   | Shallow | 333    | 12  | 24S 27E                         | 579994 | 3565935 🧲     | 4160     |
| <u>C 03839</u>   | C PRO         | 0 DEVON ENERGY CO  | ED     | C 03260 POD1     |      |   | Shallow | 333    | 12  | 24S 27E                         | 579994 | 3565935 🧲     | 4160     |
| <u>C 00518</u>   | CUB IRR       | 199.5 OTIS MUTUAL DOMESTIC WTR<br>CONSUMERS & SEWER WORKS<br>ASSOC | ED     | <u>C 00518</u>   |      |   | Shallow | 113    | 23  | 23S 27E                         | 578310 | 3572840* 🧲    | 4237     |
| <u>C 00518 A</u> | CUB MDW       | 123.9 OTIS WATER USERS CO OP                                       | ED     | <u>C 00518</u>   |      |   | Shallow | 113    | 23  | 23S 27E                         | 578310 | 3572840* 🍯    | 4237     |
| <u>C 03147</u>   | C MUL         | 3 GEORGE BRANTLEY  | ED     | <u>C 03147</u>   |      |   |         | 333    | 12  | 24S 27E                         | 579884 | 3565715       | 4239     |

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\*UTM location was derived from PLSS - see Help

|                | (acre ft                    | per annum)                             |                         | and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)<br>C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meter |            |                           |                |             |  |  |  |
|----------------|-----------------------------|--|-------------------------|--|------------|---------------------------|----------------|-------------|--|--|--|
|                | Sub                         |  |                         | Well   | ,          | qqq                       |                |             |  |  |  |
| WR File Nbr    | basin Use Dive              | ersion Owner                           | County POD Number       | Tag  | Code Grant | Source 6416 4 Sec Tws Rng |                | Y Distance  |  |  |  |
| C 03333        | C PRO                       | 0 OGX RESOURCES LLC                    | ED <u>C 03147</u>       |  |            | 3 3 3 12 24S 27E          | 579884 356571  | 5 🌍 4239    |  |  |  |
| <u>C 03352</u> | C PRO                       | 0 NOVA MUD                             | ED <u>C 03147</u>       |  |            | 3 3 3 12 24S 27E          | 579884 356571  | 5 🌍 4239    |  |  |  |
| <u>C 01261</u> | CUB EXP                     | 0 OTIS WATERUSERS COOP.                | ED <u>C 01261</u>       |  |            | Shallow 21 23S 27E        | 575780 357288  | 9* 🌍 4251   |  |  |  |
| <u>C 00683</u> | C DOM                       | 3 HARLEY DAVIS                         | ED <u>C 00683</u>       |  |            | Shallow 4 3 08 24S 27E    | 573986 3565790 | 6* 🌍 🛛 4257 |  |  |  |
| <u>C 01187</u> | C DOM                       | 3 CAMP LAVELLE ZIA GIRL<br>SCOUT C.    | ED <u>C 01187</u>       |  |            | Shallow 4 3 08 24S 27E    | 573986 3565790 | 6* 🌍 🛛 4257 |  |  |  |
| <u>C 00516</u> | CUB EXP                     | 72.4 JAMES S DAVIS                     | ED <u>C 00516 POD6</u>  |  |            | Shallow 1 4 3 08 24S 27E  | 573885 356589  | 5* 🌍 4261   |  |  |  |
|                |                             |  | ED <u>C 00516 POD10</u> | NA   |            | Shallow 3 4 3 08 24S 27E  | 573874 356572  | 2 🌍 4388    |  |  |  |
| <u>C 02976</u> | C STK                       | 3 GEORGE BRANTLEY                      | ED <u>C 02976</u>       |  |            | Shallow 4 2 3 12 24S 27E  | 580519 356619  | 5* 🌍 4394   |  |  |  |
| C 00228 A      | CUB MUN 12                  | 46.516 OTIS WATER USERS<br>COOPERATIVE | ED <u>C 00228 AS2</u>   |  |            | Shallow 1 1 3 21 23S 27E  | 575074 3572788 | 3* 🌍 4412   |  |  |  |
| <u>C 03067</u> | C DOM                       | 0 BOB RAINES                           | ED <u>C 03067</u>       |  |            | 3 3 1 23 23S 27E          | 578311 3573044 | 1* 🌍 4431   |  |  |  |
| <u>C 03490</u> | CUB EXP                     | 0 JAMES DAVIS                          | ED <u>C 03490 POD1</u>  |  |            | Shallow 3 4 3 08 24S 27E  | 573811 356570  | 9 🌍 🛛 4442  |  |  |  |
| <u>C 03707</u> | C PRO                       | 0 BARBARA DAVIS                        | ED <u>C 00516 POD9</u>  |  |            | Shallow 3 4 3 08 24S 27E  | 573809 356570  | 5 🌍 🛛 4446  |  |  |  |
| <u>C 03488</u> | C DOM                       | 1 RAUL AGUIRRE II ONSUREZ              | ED <u>C 03488 POD1</u>  |  |            | Shallow 4 3 1 23 23S 27E  | 578430 357302  | 3 🌍 🛛 4449  |  |  |  |
| <u>C 00054</u> | CUB IRR                     | 0 ARTHUR LANCASTER                     | ED <u>C 00054</u>       |  |            | 1 1 4 25 23S 27E          | 580727 3571263 | 3* 🌍 4468   |  |  |  |
| <u>C 02937</u> | C PRO                       | 0 MEWBOURNE OIL COMPANY                | ED <u>C 02937</u>       |  |            | 3 4 3 12 24S 27E          | 580315 3565789 | 9* 🌍 4494   |  |  |  |
| C 02941        | C PRO                       | 0 PATTERSON DRILLING                   | ED <u>C 02941</u>       |  |            | 3 4 3 12 24S 27E          | 580315 3565789 | 9* 🌍 4494   |  |  |  |
|                |                             |  | ED <u>C 02941 POD1</u>  |  |            | 3 4 3 12 24S 27E          | 580315 3565789 | 9* 🌍 4494   |  |  |  |
| <u>C 00347</u> | CUB EXP                     | 0 BRANTLEY GEORGE                      | ED <u>C 00347</u>       |  |            | Shallow 1 1 13 24S 27E    | 580010 3565479 | 9* 🌍 4498   |  |  |  |
| <u>C 01836</u> | CUB IRR                     | 0 GEORGE BRANTLEY                      | ED <u>C 01836</u>       |  |            | 1 1 13 24S 27E            | 580010 3565479 | 9* 🌍 4498   |  |  |  |
| C 00228 A      | CUB MUN 12                  | 46.516 OTIS WATER USERS<br>COOPERATIVE | ED <u>C 00228 A</u>     |  |            | Shallow 2 2 4 20 23S 27E  | 574871 3572782 | 2* 🌍 4498   |  |  |  |
|                |                             |  | ED <u>C 00228 AS</u>    |  |            | Shallow 2 2 4 20 23S 27E  | 574871 3572782 | 2* 🌍 4498   |  |  |  |
| <u>C 00005</u> | CUB IRR                     | 0 W H SWEARINGEN                       | ED <u>C 00005</u>       |  |            | 1 1 4 23 23S 27E          | 579113 3572850 | 6* 🌍 4565   |  |  |  |
| ******         | and the share of feature DL | 00                                     |                         |  |            |                           |                |             |  |  |  |

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\*UTM location was derived from PLSS - see Help

|                |              |         | 2 11:28:01 AM                   |        |                  | (R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) |                       |                                 |              |                  |          |  |  |
|----------------|--------------|---------|---------------------------------|--------|------------------|---|-----------------------|---------------------------------|--------------|------------------|----------|--|--|
|                | • •          | (ac     | re ft per annum)                |        |                  |   | C=the file is closed) | (quarters are smallest to lar   | gest) (NAD83 | 3 UTM in meters) | _        |  |  |
| WR File Nbr    | Sub<br>basin | Use     | Diversion Owner                 | County | POD Number       | Well<br>Tag   | Code Grant            | qqq<br>Source 6416 4 Sec Tws Rn | a X          | Y                | Distance |  |  |
| SP 01349       | CUB          |         | 2967.41 NM INTERSTATE STREAM    | -      | <u>SP 01349</u>  |   |                       | 1 4 12 24S 27                   |              |                  | 4590     |  |  |
| C 03869        | С            | STK     | COMM<br>3 DRAPER BRANTLEY JR    | ED     | C 03869 POD1     |   | NON                   | 1 3 4 12 24S 27                 | 580677       | 3566039 🌍        | 4614     |  |  |
| C 03032        | С            | DOL     | 3 GEORGE BRANTLEY               | ED     | <u>C 03032</u>   |   |                       | 4 1 4 12 24S 27                 | 580931       | 3566200* 🌍       | 4728     |  |  |
| C 03253        | С            | PRO     | 0 MEWBOURNE OIL                 | ED     | <u>C 03032</u>   |   |                       | 4 1 4 12 24S 27                 | 580931       | 3566200* 🌍       | 4728     |  |  |
| C 01646        | CUB          | IRR     | 0 GEORGE BRANTLEY               | ED     | <u>C 01646 X</u> |   |                       | 1 13 24S 27                     | 580221       | 3565275* 🌍       | 4791     |  |  |
| C 01943        | С            | STK     | 3 GARY THOMPSON                 | ED     | <u>C 01943</u>   |   |                       | 1 13 24S 27                     | 580221       | 3565275* 🌍       | 4791     |  |  |
| C 01263        | CUB          | EXP     | 0 OT'S WATER USERS COOP.        | ED     | <u>C 01263</u>   |   |                       | 1 23 23S 27                     | 578613       | 3573346* 🌍       | 4814     |  |  |
| C 03196        | С            | DOL     | 3 DIANE WALTERS                 | ED     | <u>C 03196</u>   |   |                       | 3 1 3 24 23S 27                 | 579916       | 3572672* 🌍       | 4842     |  |  |
| C 03055        | С            | DOL     | 0 GEORGE BRANTLEY               | ED     | <u>C 03055</u>   |   |                       | 2 3 4 12 24S 27                 | 580930       | 3565995* 🌍       | 4844     |  |  |
| C 00365        | CUB          | IRR     | 185.7 CARLETON JOE O            | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| C 00464        | CUB          | IRR     | 314.245 HENRY E MCDONALD        | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| C 00513        | CUB          | IRR     | 1422 PARDUE LIMITED COMPANY     | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| C 00574        | CUB          | IRR     | 55.05 TOMMY JR. OR CARLA DUARTE | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| C 00738        | CUB          | IRR     | 343.5 W.J. BURKHAM              | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| C 00750        | CUB          | IRR     | 74.7 BETH ANN BOTROS            | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| C 00764        | CUB          | IRR     | 117.9 MIKE M. VASQUEZ           | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| C 01082        | CUB          | IRR     | 240 DAMON U. BOND               | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| SD 01886       | CUB          | IRR     | 100 DICK CALDERON               | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| SP 01927       | CUB          | CLS     | 0 UNITED STATES OF AMERICA      | ED     | SP 01927         |   | С                     | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| SP 01927 1     | CUB          | IRR     | 2171.91 EDWARD F. JUDKINS       | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🤤       | 4869     |  |  |
| SP 01927 2     | CUB          | IRR     | 796.367 REYNOLDS JOHNSON        | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| SP 01927 3     | CUB          | IRR     | 144.794 JULIAN SMITH            | ED     | SP 01927         |   |                       | 4 12 24S 27                     | 581032       | 3566097* 🌍       | 4869     |  |  |
| UTM location w | as derive    | ed fror | n PLSS - see Help               |        |                  |   |                       |                                 |              |                  |          |  |  |

"UTM location was derived from PLSS - see Help

**Released to Imaging: 4/24/2023 1:40:08 PM** 

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|                    |               |                                     | and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) |                   |      |                       |           |        |      |                   |        |                |          |
|--------------------|---------------|-------------------------------------|--|-------------------|------|-----------------------|-----------|--------|------|-------------------|--------|----------------|----------|
|                    | (acre f       | t per annum)                        |  |                   |      | C=the file is closed) | (quarte   | rs are | smal | llest to largest) | (NAD83 | UTM in meters) |          |
|                    | Sub           |                                     |  |                   | Well |                       | q         | qq     |      |                   |        |                |          |
| WR File Nbr        | basin Use Div | version Owner                       | County   | / POD Number      | Tag  | Code Grant            | Source 64 | 16 4   | Sec  | Tws Rng           | Х      | Y              | Distance |
| <u>SP 01927 4</u>  | CUB MDW       | 2800 UNITED STATES OF AMERICA       | ED   | SP 01927          |      |                       |           | 4      | 12   | 24S 27E           | 581032 | 3566097* 🌍     | 4869     |
| <u>SP 01927 5</u>  | CUB IRR 2     | 413.209 D.R. HARKEY                 | ED   | SP 01927          |      |                       |           | 4      | 12   | 24S 27E           | 581032 | 3566097* 🌍     | 4869     |
| <u>SP 01927 6</u>  | CUB IRR       | 108.596 DANIEL BEACH                | ED   | <u>SP 01927</u>   |      |                       |           | 4      | 12   | 24S 27E           | 581032 | 3566097* 🌍     | 4869     |
| <u>SP 01927 7</u>  | CUB IRR       | 5067.79 EDWARD F. JUDKIN            | ED   | SP 01927          |      |                       |           | 4      | 12   | 24S 27E           | 581032 | 3566097* 🌍     | 4869     |
| <u>C 00231 A</u>   | CUB MDW       | 201.6 MALAGA WATER USERS CO-OP      | ED   | <u>C 00231 AS</u> |      |                       | Shallow 4 | 1 1    | 23   | 23S 27E           | 578512 | 3573447* 🌍     | 4877     |
| C 00498            | CUB IRR       | 9 YGNACIO LOPEZ                     | ED   | <u>C 00498</u>    |      |                       | Shallow 4 | 1 1    | 23   | 23S 27E           | 578512 | 3573447* 🌍     | 4877     |
| <u>C 00498 ENL</u> | CUB IRR       | 0 MALAGA WATER USERS<br>ASSOCIATION | ED   | <u>C 00498</u>    |      |                       | Shallow 4 | 1 1    | 23   | 23S 27E           | 578512 | 3573447* 🌍     | 4877     |
| <u>C 01353</u>     | CUB EXP       | 0 MALAGA W.U.A.                     | ED   | <u>C 01353</u>    |      |                       |           | 22     | 30   | 23S 27E           | 573163 | 3571851* 🌍     | 4886     |
| <u>C 03197</u>     | C DOL         | 3 TANA MUNOZ                        | ED   | <u>C 03197</u>    |      |                       | 4         | 43     | 24   | 23S 27E           | 580520 | 3572274* 🌍     | 4943     |
| <u>C 01283</u>     | C DOM         | 3 YGNACIO LOPEZ                     | ED   | <u>C 01283</u>    |      |                       |           | 1 1    | 23   | 23S 27E           | 578413 | 3573548* 🌍     | 4943     |
| <u>C 03037</u>     | C DOL         | 3 GEORGE BRANTLEY                   | ED   | <u>C 03037</u>    |      |                       | Shallow 4 | 34     | 12   | 24S 27E           | 580930 | 3565795* 🌍     | 4963     |
| <u>C 02022</u>     | C PRO         | 0 AMOCO PRODUCTION<br>COMPANY       | ED   | <u>C 02022</u>    |      |                       | Shallow 1 | 43     | 31   | 23S 28E           | 581941 | 3569250* 🌍     | 4970     |
| C 02955            | C PRO         | 0 MARBOB ENERGY                     | ED   | <u>C 02955</u>    |      |                       | 1         | 43     | 31   | 23S 28E           | 581941 | 3569250* 🌍     | 4970     |
| <u>C 03218</u>     | C PRO         | 0 NADEL & GUSSMAN                   | ED   | <u>C 02022</u>    |      |                       | Shallow 1 | 43     | 31   | 23S 28E           | 581941 | 3569250* 🌍     | 4970     |
|                    |               |                                     |  |                   |      |                       |           |        |      |                   |        |                |          |

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#### Record Count: 96

UTMNAD83 Radius Search (in meters):

#### Easting (X): 576990.2

Northing (Y): 3568813.47

Radius: 5000

Sorted by: Distance

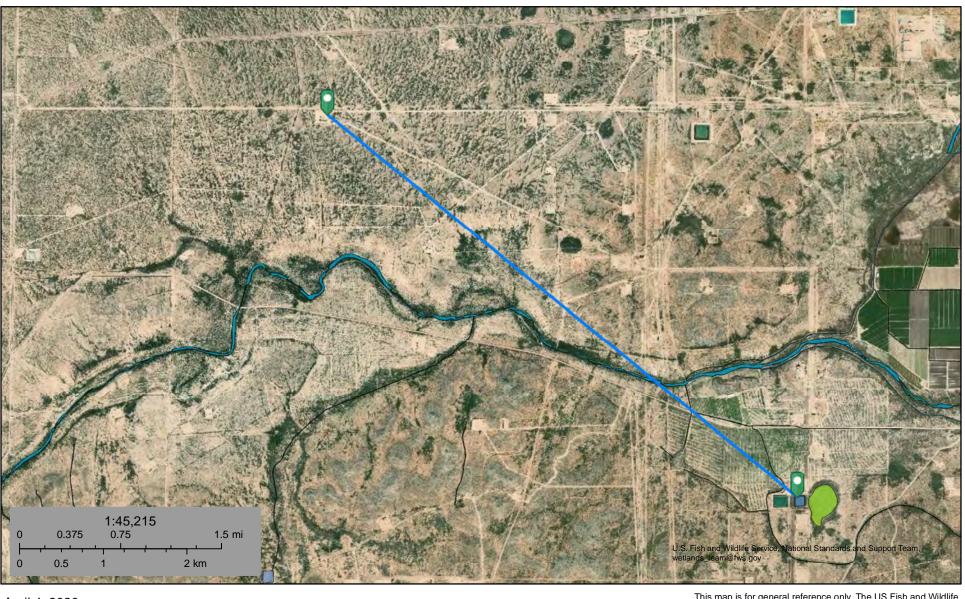
#### \*UTM location was derived from PLSS - see Help

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.

# U.S. Fish and Wildlife Service

# National Wetlands Inventory

# Tony La Russa: Pond 19,921 ft



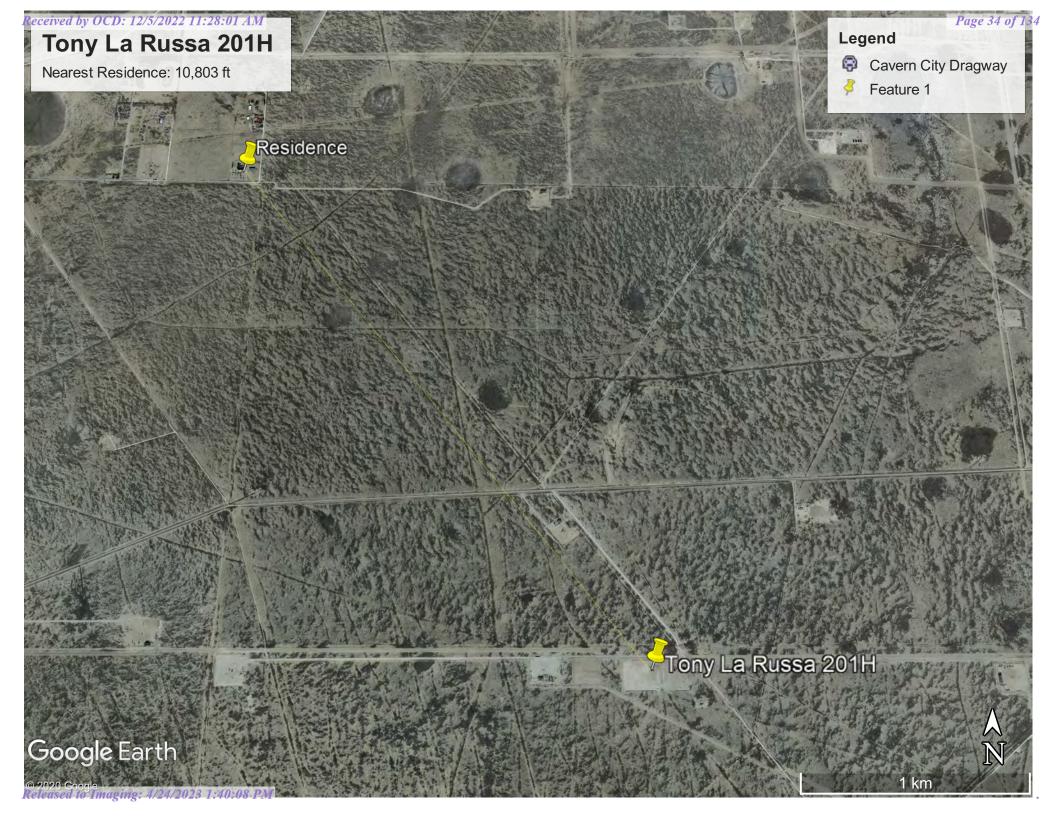
## April 4, 2020

#### Wetlands

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

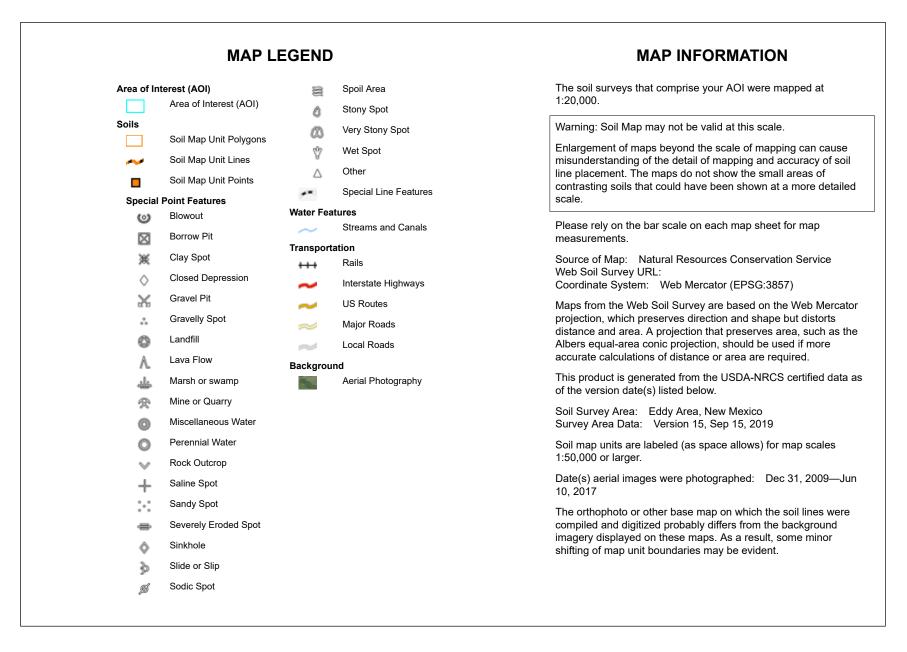
Lake Other Riverine

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.





USDA Natural Resources Conservation Service Released to Imaging: 4/24/2023 1:40:08 PM Web Soil Survey National Cooperative Soil Survey 4/4/2020 Page 1 of 3



### Map Unit Legend

| Map Unit Symbol             | Map Unit Name                      | Acres in AOI | Percent of AOI |
|-----------------------------|------------------------------------|--------------|----------------|
| RA                          | Reagan loam, 0 to 3 percent slopes | 0.2          | 100.0%         |
| Totals for Area of Interest |                                    | 0.2          | 100.0%         |



### Eddy Area, New Mexico

#### RA—Reagan loam, 0 to 3 percent slopes

#### Map Unit Setting

National map unit symbol: 1w5c Elevation: 1,100 to 4,400 feet Mean annual precipitation: 7 to 14 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 200 to 240 days Farmland classification: Farmland of statewide importance

#### Map Unit Composition

Reagan and similar soils: 98 percent Minor components: 2 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Reagan**

#### Setting

Landform: Alluvial fans, fan remnants Landform position (three-dimensional): Rise Down-slope shape: Linear, convex Across-slope shape: Linear Parent material: Alluvium and/or eolian deposits

#### **Typical profile**

*H1 - 0 to 8 inches:* loam *H2 - 8 to 60 inches:* loam

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.2 inches)

#### Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6e Hydrologic Soil Group: B Ecological site: Loamy (R042XC007NM) Hydric soil rating: No

#### **Minor Components**

#### Upton

Percent of map unit: 1 percent Ecological site: Shallow (R042XC025NM) Hydric soil rating: No

#### Atoka

Percent of map unit: 1 percent Ecological site: Loamy (R042XC007NM) Hydric soil rating: No

### **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 15, Sep 15, 2019



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

| (A CLW##### in the<br>POD suffix indicates the<br>POD has been replaced<br>& no longer serves a | been<br>O=or<br>C=the | OD has<br>replace<br>phaned,<br>e file is |             |                  |      |               |       |                |           | S=SW 4=SE          | -               |                  | ,               |          |              |
|---|-----------------------|---|-------------|------------------|------|---------------|-------|----------------|-----------|--------------------|-----------------|------------------|-----------------|----------|--------------|
| water right file.)  | close                 | d)<br>POD                                 |             | (qua             | rtei | 's a          | re si | malles         | st to lar | gest) (NA          | AD83 UTM in me  | eters)           | (1              | n feet)  |              |
|   |                       | Sub-                                      |             |                  | Q    |               |       |                |           |                    |                 |                  | -               | Depth    |              |
| POD Number<br>C 03031   | Code                  | e basin<br>C                              | Count<br>ED | <b>y 64</b><br>1 |      | <b>4</b><br>3 |       | <b>Tws</b> 23S | -         | <b>X</b><br>578315 | Y<br>3569206* 🥌 | Distance<br>1381 | <b>Well</b> 150 | Water 67 | Column<br>83 |
| <u>C 00364</u>  | С                     | CUB                                       | ED          |                  |      |               |       | 24S            |           | 575997             | 3567043*        | 2030             |                 | 07       | 00           |
| <u>C 00821</u>  | 0                     | C   | ED          |                  |      | 2             |       | _              | 27E       | 575996             | 3566635*        | 2394             | 97              | 50       | 47           |
| <u>C 00850</u>  |                       | c   | ED          |                  | -    | 3             |       | 24S            |           | 575595             | 3566223*        | 2942             | 108             | 35       | 73           |
| <u>C 02453</u>  |                       | C   | ED          | 4                | 4    | 2             |       | 235            |           | 574876             | 3571372*        | 3319             | 210             | 175      | 35           |
| <u>C 01366</u>  |                       | CUB                                       | ED          | •                |      |               |       | 24S            |           | 574590             | 3566003*        | 3695             | 60              | 35       | 25           |
| C 02377   |                       | C   | ED          |                  |      | 2             |       | 23S            |           | 574575             | 3571666*        | 3737             | 232             | 170      | 62           |
| C 00518 POD2  |                       | CUB                                       | ED          | 2                | 4    | 4             |       | 23S            |           | 578105             | 3572431*        | 3785             | 220             | 98       | 122          |
| C 00516   |                       | CUB                                       | ED          | 1                |      | 4             |       | 24S            |           | 574288             | 3565901*        | 3972             | 105             | 36       | 69           |
| C 00516 CLW201016   | 0                     | CUB                                       | ED          | 1                | 3    | 4             |       | 24S            |           | 574288             | 3565901* 🥌      | 3972             | 62              |          |              |
| C 00516 CLW308590   | О                     | CUB                                       | ED          | 1                | 3    | 4             |       | 24S            |           | 574288             | 3565901* 🥌      | 3972             | 105             | 36       | 69           |
| C 00516 S   |                       | CUB                                       | ED          | 1                | 3    | 4             | 08    | 24S            | 27E       | 574288             | 3565901 🥌       | 3972             | 50              | 17       | 33           |
| C 02567   |                       | С   | ED          | 2                | 1    | 2             | 26    | 23S            | 27E       | 579314             | 3572049* 🥌      | 3983             | 187             | 89       | 98           |
| C 03489 POD1  |                       | CUB                                       | ED          | 2                | 4    | 3             | 08    | 24S            | 27E       | 574153             | 3565939 🥌       | 4038             | 200             |          |              |
| C 03092   |                       | С   | ED          | 4                | 3    | 1             | 08    | 24S            | 27E       | 573678             | 3566501* 🥌      | 4039             | 54              | 37       | 17           |
| <u>C 02112</u>  |                       | С   | ED          | 1                | 3    | 4             | 13    | 21S            | 24E       | 573831             | 3571337 🌍       | 4043             | 182             | 119      | 63           |
| <u>C 00631</u>  |                       | С   | ED          | 3                | 3    | 4             | 08    | 24S            | 27E       | 574288             | 3565701* 🌍      | 4121             | 50              | 24       | 26           |
| C 03260 POD1  |                       | С   | ED          | 3                | 3    | 3             | 12    | 24S            | 27E       | 579995             | 3565935 🌍       | 4160             | 80              | 56       | 24           |
| C 03260 POD2  | 0                     | С   | ED          | 1                | 3    | 3             | 12    | 24S            | 27E       | 580100             | 3565984 🌍       | 4204             | 80              | 56       | 24           |
| <u>C 00518</u>  |                       | CUB                                       | ED          | 1                | 1    | 3             | 23    | 23S            | 27E       | 578310             | 3572840* 🌍      | 4237             | 178             |          |              |
| <u>C 03147</u>  |                       | С   | ED          | 3                | 3    | 3             | 12    | 24S            | 27E       | 579885             | 3565715 🌍       | 4239             | 140             |          |              |
| <u>C 01261</u>  |                       | CUB                                       | ED          |                  |      |               | 21    | 23S            | 27E       | 575780             | 3572889* 🌍      | 4251             | 250             |          |              |
| <u>C 00683</u>  |                       | С   | ED          |                  | 4    | 3             | 08    | 24S            | 27E       | 573986             | 3565796* 🌍      | 4257             | 50              | 17       | 33           |
| <u>C 01187</u>  |                       | С   | ED          |                  | 4    | 3             | 08    | 24S            | 27E       | 573986             | 3565796* 🌍      | 4257             | 108             | 17       | 91           |
| C 00516 POD6  |                       | CUB                                       | ED          | 1                | 4    | 3             | 08    | 24S            | 27E       | 573885             | 3565895* 🌍      | 4261             | 78              | 17       | 61           |
| C 00518 CLW197989   | 0                     | CUB                                       | ED          | 2                | 1    | 3             | 23    | 23S            | 27E       | 578510             | 3572840* 🌍      | 4303             | 210             |          |              |
| *UTM location was derived f   | rom PLS               | SS - see                                  | Help        |                  |      |               |       |                |           |                    |                 |                  |                 |          |              |

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#### Received by OCD: 12/5/2022 11:28:01 AM

(A CLW##### in the

(R=POD has

| POD suffix indicates the<br>POD has been replaced | been repla<br>O=orphan<br>C=the file | ed,  | (auar | ters        | are 1 | -NW | 2–NE     | 3=SW 4=SE | )                   |             |        |                |                 |
|---|--------------------------------------|------|-------|-------------|-------|-----|----------|-----------|---------------------|-------------|--------|----------------|-----------------|
| & no longer serves a<br>water right file.)        | closed)                              |      | ••    |             |       |     | st to la |           | )<br>AD83 UTM in me | eters)      | (      | In feet)       |                 |
| POD Number  | PC<br>Su<br>Code bas                 | b-   |       | Q Q<br>16 4 |       | Tws | Rna      | Х         | Y                   | Distance    |        | Depth<br>Water | Water<br>Column |
| C 00516 POD10                                     | CU                                   |      | -     |             |       | 24S | _        | 573875    | 3565722 🌍           | 4388        | 160    | 45             | 115             |
| <u>C 02976</u>                                    | С                                    | ED   | 4     | 23          | 12    | 24S | 27E      | 580519    | 3566195* 🌍          | 4394        | 57     | 27             | 30              |
| C 03490 POD1                                      | CU                                   | B ED | 3     | 43          | 08    | 24S | 27E      | 573812    | 3565709 🌍           | 4442        | 140    | 23             | 117             |
| C 03488 POD1                                      | С                                    | ED   | 4     | 31          | 23    | 23S | 27E      | 578430    | 3573023 🌍           | 4449        | 217    | 122            | 95              |
| <u>C 00347</u>                                    | CU                                   | B ED |       | 1 1         | 13    | 24S | 27E      | 580010    | 3565479* 🌍          | 4498        | 60     | 30             | 30              |
| <u>C 01943</u>                                    | С                                    | ED   |       | 1           | 13    | 24S | 27E      | 580221    | 3565275* 🌍          | 4791        | 30     | 25             | 5               |
| C 00010 CLW191724                                 | O CU                                 | B ED | 2     | 32          | 25    | 23S | 27E      | 580926    | 3571666* 🌍          | 4860        | 259    |                |                 |
| <u>C 00231 AS</u>                                 | CU                                   | B ED | 4     | 1 1         | 23    | 23S | 27E      | 578512    | 3573447* 🌍          | 4877        | 230    | 100            | 130             |
| <u>C 00498</u>                                    | CU                                   | B ED | 4     | 1 1         | 23    | 23S | 27E      | 578512    | 3573447* 🌍          | 4877        | 210    | 120            | 90              |
| C 00498 CLW194833                                 | O CU                                 | B ED | 4     | 1 1         | 23    | 23S | 27E      | 578512    | 3573447* 🌍          | 4877        | 165    | 80             | 85              |
| <u>C 03037</u>                                    | С                                    | ED   | 4     | 34          | 12    | 24S | 27E      | 580930    | 3565795* 🌍          | 4963        | 116    | 25             | 91              |
|   |                                      |      |       |             |       |     |          |           | Avera               | ge Depth to | Water: | 60             | feet            |
|   |                                      |      |       |             |       |     |          |           |                     | Minimum     | Depth: | 17             | feet            |
|   |                                      |      |       |             |       |     |          |           |                     | Maximum     | Depth: | 175            | feet            |
| Record Count: 37                                  |                                      |      |       |             |       |     |          |           |                     |             |        |                |                 |

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

Easting (X): 576990.2

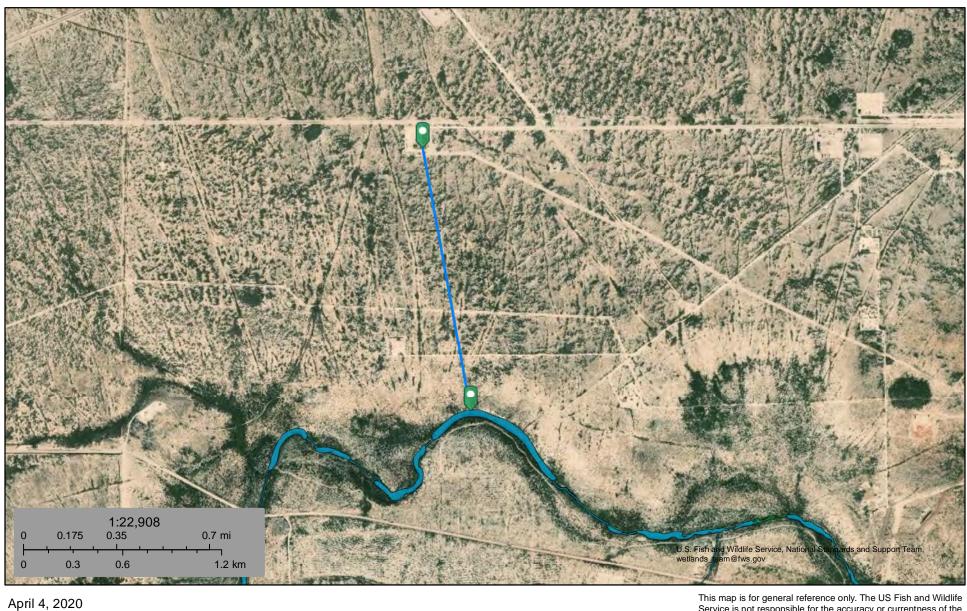
Northing (Y): 3568813.47

Radius: 5000

\*UTM location was derived from PLSS - see Help

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#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

Lake Other Riverine 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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## New Mexico Office of the State Engineer Wells with Well Log Information

| (A CLW##### in the<br>POD suffix indicates<br>the POD has been<br>replaced & no longer<br>serves a water right<br>file.) | been<br>O=or | OD has<br>replace<br>phanec<br>e file is<br>d) | ed,<br>d, |          |              |     |     | SW 4=SE<br>to largest |        | \D83 UTM in me | eters)   |            |             |                  | (in fe        | et)                       |                   |
|--|--------------|--|-----------|----------|--------------|-----|-----|-----------------------|--------|----------------|----------|------------|-------------|------------------|---------------|---------------------------|-------------------|
|  |              | POD  |           |          |              |     |     |                       |        |                |          |            |             |                  |               |                           |                   |
| POD Number   | Code         | Sub-<br>basin                                  |           | / Source | qqq<br>64164 | Sec | Tws | Rna                   | х      | Y              | Distance | Start Date | Finish Date | Log File<br>Date | Depth<br>Well | Depth<br>Water Driller    | License<br>Number |
| <u>C 03031</u>   |              | С  | ED        | Shallow  |              |     |     | •                     | 578315 | 3569206* 🌍     | 1381     | 06/10/2004 | 06/16/2004  | 06/24/2004       | 150           | 67 WAYNE BRAZEAL          | 685               |
| <u>C 00364</u>   | С            | CUB  | ED        |          | 12           | 09  | 24S | 27E                   | 575997 | 3567043* 🌍     | 2030     |            |             | 07/01/1958       | 2270          | TEXAS CO. W-W DRLG<br>CO. |                   |
| <u>C 00821</u>   |              | С  | ED        | Shallow  | 32           | 09  | 24S | 27E                   | 575996 | 3566635* 🌍     | 2394     | 02/28/1958 | 03/01/1958  | 03/12/1958       | 97            | 50 M. ABBOTT              | 46                |
| <u>C 00850</u>   |              | С  | ED        | Shallow  | 23           | 09  | 24S | 27E                   | 575595 | 3566223* 🌍     | 2942     | 09/06/1958 | 09/09/1958  | 09/22/1958       | 108           | 35 C.H. DONOWHO           | 270               |
| <u>C 02453</u>   |              | С  | ED        | Shallow  | 442          | 29  | 23S | 27E                   | 574876 | 3571372* 🌍     | 3319     | 02/24/1996 | 02/24/1996  | 04/02/1996       | 210           | 175 FELKINS, MICHAEL      | 763               |
| <u>C 01366</u>   |              | CUB  | ED        | Shallow  | 4            | 08  | 24S | 27E                   | 574590 | 3566003* 🌍     | 3695     | 11/24/1966 | 11/26/1966  | 07/06/1967       | 60            | 35 EMMETT BARRON          | 30                |
| <u>C 02377</u>   |              | С  | ED        | Shallow  | 2            | 29  | 23S | 27E                   | 574575 | 3571666* 🌍     | 3737     | 05/24/1998 | 05/30/1998  | 08/24/1998       | 232           | 170                       | 1348              |
| C 00518 POD2   |              | CUB  | ED        | Shallow  | 244          | 22  | 23S | 27E                   | 578105 | 3572431* 🌍     | 3785     | 03/15/2006 | 06/14/2006  | 08/31/2008       | 220           | 98 BRININSTOOL, M.D.      | 24                |
| <u>C 01473</u>   |              | CUB  | ED        | Shallow  | 1 1 3        | 25  | 23S | 27E                   | 579919 | 3571254* 🌍     | 3812     |            |             | 06/27/1972       |               |                           |                   |
| <u>C 00516</u>   |              | CUB  | ED        | Shallow  | 134          | 08  | 24S | 27E                   | 574288 | 3565901* 🌍     | 3972     | 01/22/1955 | 01/27/1955  | 03/02/1955       | 105           | 36 BARRON, EMMETT         | 30                |
| C 00516 CLW308590  | 0            | CUB  | ED        | Shallow  | 134          | 08  | 24S | 27E                   | 574288 | 3565901* 🌍     | 3972     | 01/22/1955 | 01/27/1955  | 03/02/1955       | 105           | 36 BARRON, EMMETT         | 30                |
| <u>C 00516 S</u>   |              | CUB  | ED        | Shallow  | 134          | 08  | 24S | 27E                   | 574288 | 3565901 🌍      | 3972     | 03/10/1956 | 03/15/1956  | 04/18/1956       | 50            | 17 NM LICENSED DRILLEF    | र 30              |
| <u>C 02567</u>   |              | С  | ED        | Shallow  | 212          | 26  | 23S | 27E                   | 579314 | 3572049* 🌍     | 3983     | 04/01/1998 | 04/07/1998  | 05/05/1998       | 187           | 89                        | 1348              |
| C 03489 POD1   |              | CUB  | ED        | Shallow  | 243          | 08  | 24S | 27E                   | 574153 | 3565939 🌍      | 4038     | 06/27/2011 | 06/28/2011  | 06/18/2012       | 200           | JASON MALEY (LD)          | 1690              |
| <u>C 03092</u>   |              | С  | ED        | Shallow  | 431          | 08  | 24S | 27E                   | 573678 | 3566501* 🌍     | 4039     | 05/17/2004 | 05/18/2004  | 07/16/2004       | 54            | 37                        | 1348              |
| <u>C 02112</u>   |              | С  | ED        | Shallow  | 134          | 13  | 21S | 24E                   | 573831 | 3571337 🌍      | 4043     | 07/06/1985 | 07/15/1985  | 11/15/1985       | 182           | 119 JAMES A. AMOS         | 1041              |

\*UTM location was derived from PLSS - see Help

| (A CLW##### in the<br>POD suffix indicates<br>the POD has been | (R=POD has<br>been replaced,            |   |                     |                                 |  |                       |
|--|---|---|---------------------|---------------------------------|--|-----------------------|
| replaced & no longer<br>serves a water right<br>file.)         | O=orphaned,<br>C=the file is<br>closed) | (quarters are 1=NW 2=NE 3=SW<br>(quarters are smallest to | ,                   | ers)                            | (in feet)                                    |                       |
| POD Number   | POD<br>Sub-<br>Code basin Cour          | qqq<br>nty Source 64164 Sec Tws Rn                        | q X Y               | Distance Start Date Finish Date | Log File Depth Depth<br>Date Well Water Dril | License<br>Ier Number |
| C 00631  | C EL                                    | •   | -                   | 4121 02/09/1955 02/11/1955      |  | METT BARRON 30        |
| C 03260 POD1   | C EE                                    | D Shallow 3 3 3 12 24S 27                                 | E 579995 3565935 🧿  | 4160 11/02/2008 11/02/2008      | 11/07/2008 80 56                             | 1348                  |
| C 03260 POD2   | O C EE                                  | D Shallow 1 3 3 12 24S 27                                 | E 580100 3565984 🌍  | 4204 11/02/2008 11/02/2008      | 11/07/2008 80 56                             | 1348                  |
| <u>C 00518</u>   | CUB EE                                  | D Shallow 1 1 3 23 23S 27                                 | E 578310 3572840* 🍯 | 4237 07/31/1957                 | 09/30/1958 178 NM                            | LICENSED DRILLER 24   |
| <u>C 03147</u>   | C EE                                    | O 3 3 3 12 24S 27   | E 579885 3565715 🌍  | 4239 03/10/2005 03/11/2005      | 03/21/2005 140                               | 1348                  |
| <u>C 01261</u>   | CUB EE                                  | D Shallow 21 23S 27                                       | E 575780 3572889* 😜 | 4251 03/01/1964 03/11/1964      | 08/26/1965 250 BUF                           | RGETT DRILLING 248    |
| C 00683  | C EE                                    | D Shallow 4 3 08 24S 27                                   | E 573986 3565796* 🌍 | 4257 03/08/1956 03/10/1956      | 03/27/1956 50 17                             | 30                    |
| <u>C 01187</u>   | C EE                                    | D Shallow 4 3 08 24S 27                                   | E 573986 3565796* 🕘 | 4257 05/24/1964 05/28/1964      | 06/01/1964 108 17 SPE                        | ENCER, DAVID A. 138   |
| C 00516 POD6   | CUB EE                                  | D Shallow 1 4 3 08 24S 27                                 | E 573885 3565895* 🌍 | 4261 05/08/2006 05/09/2006      | 07/31/2006 78 17 CLI                         | NT TAYLOR 1348        |
| C 00516 POD10  | CUB EE                                  | D Shallow 3 4 3 08 24S 27                                 | E 573875 3565722 😜  | 4388 08/21/2018 08/22/2018      | 09/24/2018 160 45 JAS                        | SON MALEY 1690        |
| <u>C 02976</u>   | C EE                                    | D Shallow 4 2 3 12 24S 27                                 | E 580519 3566195* 🌍 | 4394 09/26/2003 09/27/2003      | 09/29/2003 57 27 EXI                         | STING WELL 1348       |
| C 03490 POD1   | CUB EE                                  | D Shallow 3 4 3 08 24S 27                                 | E 573812 3565709 🍋  | 4442 06/29/2011 06/30/2011      | 06/18/2012 140 23 JAS                        | SON MALEY (LD) 1690   |
| C 03488 POD1   | C EE                                    | D Shallow 4 3 1 23 23S 27                                 | E 578430 3573023 🌍  | 4449 05/08/2011 05/10/2011      | 05/31/2011 217 122 TAY                       | YLOR, CLINTON E. 1348 |
| <u>C 00347</u>   | CUB EE                                  | D Shallow 1 1 13 24S 27                                   | E 580010 3565479* 🌍 | 4498 07/02/1974 06/25/1976      | 07/01/1976 60 30 BRI                         | NINSTOOL, M.D. 24     |
| <u>C 01943</u>   | C EE                                    | D 1 13 24S 27   | E 580221 3565275* 🌍 | 4791 09/15/1981 09/25/1981      | 06/11/1982 30 25 DOI                         | N THOMPSON 961        |
| C 00010 CLW191724  | O CUB EE                                | D Shallow 2 3 2 25 23S 27                                 | E 580926 3571666* 🌍 | 4860 08/06/1954 08/18/1954      | 01/31/1955 259 J.R.                          | JOLLEY.               |
| <u>C 00498</u>   | CUB ED                                  | D Shallow 4 1 1 23 23S 27                                 | E 578512 3573447* 🌍 | 4877 01/27/1954 01/31/1954      | 03/30/1955 210 120 SAM                       | M S. SMITH 108        |
| C 00498 CLW194833  | O CUB EE                                | D Shallow 4 1 1 23 23S 27                                 | E 578512 3573447* 🌍 | 4877 01/27/1954 12/31/1908      | 03/30/1955 165 80 UNI                        | KNOWN 108             |
| <u>C 03037</u>   | C EE                                    | D Shallow 4 3 4 12 24S 27                                 | E 580930 3565795* 🤤 | 4963 07/30/2004 07/31/2004      | 09/13/2004 116 25                            | 1348                  |

\*UTM location was derived from PLSS - see Help

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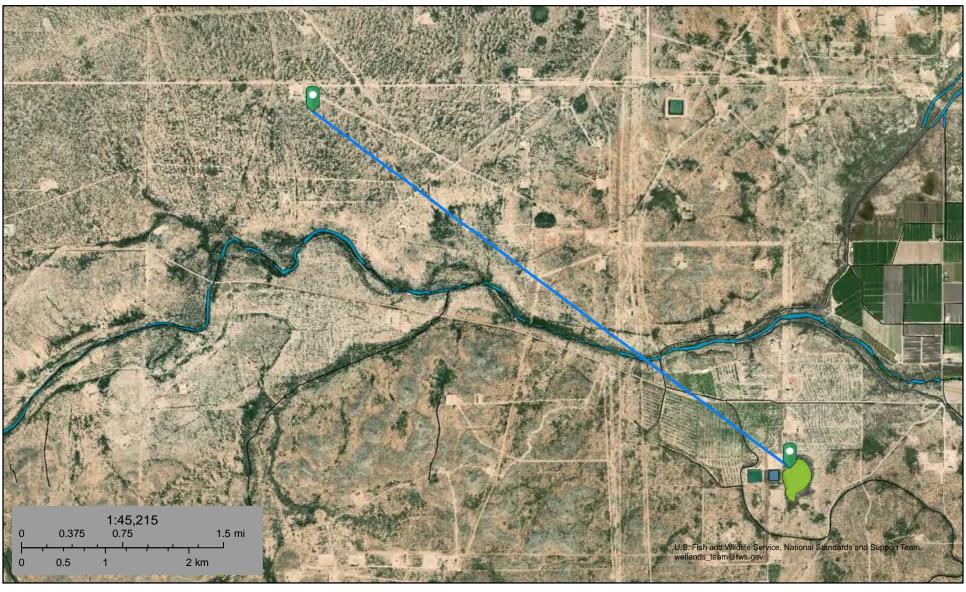
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| Received by OCD: 12<br>(A CLW##### in the<br>POD suffix indicates<br>the POD has been<br>replaced & no longer<br>serves a water right<br>file.) | (R=POD has<br>been replaced,<br>O=orphaned, | (quarters are 1=N     | IW 2=NE 3=SW 4=SE)<br>are smallest to largest) | (NAD83 ( | JTM in m | eters)                  |            |             |                  | (in fe | et)            | Page 4            | 15 of 134 |
|---|---|-----------------------|--|----------|----------|-------------------------|------------|-------------|------------------|--------|----------------|-------------------|-----------|
| POD Number  | POD<br>Sub-<br>Code basin County            | qqq<br>y Source 64164 |  | x        | Y        | Distance                | Start Date | Finish Date | Log File<br>Date | •      | Depth<br>Water | License<br>Number |           |
| Record Count: 35<br>UTMNAD83 Rac<br>Easting (X):  | lius Search (in met                         | ers):<br>Northin      | ng (Y): 3568813.47                             |          | Ra       | <mark>dius:</mark> 5000 |            |             |                  |        |                |                   |           |

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### National Wetlands Inventory

### Tony La Russa: Wetland 20,074 ft



#### April 4, 2020

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.

### **ATTACHMENT 4**

#### Received by OCD: 12/5/2022 11:28:01 AM



| Spill Resp   | onse and   | Sampling                                 |                  |                                  |                                 |  | v           | ERTE   |
|--|------------|--|------------------|----------------------------------|---------------------------------|--|-------------|--|
| Client:  |            | Mata                                     |                  |                                  | Initial Spill Information - Rec | ord on First                                     | Visit       | anna allendarado entre entre antidas   |
| Date:  | -          | 2121                                     | 20               |                                  | Spill Date:                     |  |             | *****  |
| Site Name:   | -          | Tony                                     |                  | hussia                           | Spill Volume:                   |  |             |  |
| Site Location:   |            | 1  |                  |                                  | Spill Cause:                    | and the first of grant and a second stage of the |             | 10.119 - Tabina - 1 - 1 - 1  |
| Project Owner:   | -          |  |                  |                                  | -<br>Spill Product:             |  |             |  |
| Project Manager:   |            | hecolly                                  | ition            |                                  | -<br>Recovered Spill Volume:    |  |             |  |
| Project #:   |            |  |                  |                                  | Recovery Method:                |  |             |  |
|  |            |  | Field Screening  | Sampling                         | Data Collection (               | Check for Y                                      | es)         |  |
| Sample ID  | Depth (ft) | VOC (PID)                                | PetroFlag TPH    | Quantab                          | Lab Analysis                    | Picture  | Trimble     | Marked on  |
| SS/TP/BH - Year -<br>Number<br>Ex. BH18-01                           | Ex. '2ft   | Ex. 400 ppm                              | (ppm)<br>200 ppm | (High/Low) + or -<br>Ex. 'High + | Ex. Hydrocarbon<br>Chloride     |  | Coordinates | Site Sketch  |
| BS2  | 0.5        |  |                  | 0.07/17.6                        | 8:10                            |  |             |  |
| WSID   | 0-0.5      |  |                  | 0.10/16.9                        | 8:20                            |  | -           |  |
|  |            |  |                  |                                  |                                 |  |             |  |
| an a                             |            | 6-01                                     |                  |                                  |                                 |  |             | •  |
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|  |            | an a |                  |                                  |                                 |  |             |  |
|  |            |  |                  | -                                |                                 |  |             |  |
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|  |            |  |                  |                                  |                                 |  |             |  |
|  |            |  |                  |                                  |                                 |  |             |  |
|  |            |  |                  |                                  |                                 |  |             |  |



| Client:                 | Matador Resources                    | Inspection Date:  | 3/19/2020                    |
|-------------------------|--------------------------------------|-------------------|------------------------------|
| Site Location Name:     | Tony La Russa State Com<br>201H/202H | Report Run Date:  | 3/19/2020 11:36 PM           |
| Project Owner:          | John Hurt                            | File (Project) #: | 20E-00239                    |
| Project Manager:        | Natalie Gordon                       | API #:            | 30-015-45964                 |
| Client Contact Name:    | John Hurt                            | Reference         | 3/18/2020 - 12 bbls PW Spill |
| Client Contact Phone #: |                                      |                   |                              |
|                         |                                      | Summary of        | Times                        |
| Left Office             | 3/19/2020 11:41 AM                   |                   |                              |
| Arrived at Site         | 3/19/2020 12:27 PM                   |                   |                              |
| Departed Site           | 3/19/2020 4:00 PM                    |                   |                              |
| Returned to Office      | 3/19/2020 5:26 PM                    |                   |                              |



#### Site Sketch

| Client:     MCC1 Cod or       Initial spail Information - Incored on First Visit       Initial spail spai | Spill Res   | ponse an   | d Samplin   | <u> </u>  |                              |   |                 |             | WERT       |
|--|---|--|-------------|-----------|------------------------------|---|-----------------|-------------|------------|
| Mds $3119$ $1024$ Le $Qus Sc.$ point Difference           Mds trans: $1024$ Le $Qus Sc.$ point Difference         point Difference           Mds trans: $1024$ Le $Qus Sc.$ point Difference         point Difference           Mds trans: $1024$ Le $Qus Sc.$ point Difference         point Difference           Mds trans: $1024$ Le $Qus Sc.$ point Difference         point Difference           Mds trans: $1024$ Control or Vortice $1024$ Control or Vortice         point Difference           Mds trans: $1024$ Control or Vortice $1024$ Control or Vortice $1024$ Control or Vortice           Mds trans: $1024$ Control or Vortice $1024$ Control or Vortice $1024$ Control or Vortice           Mds trans: $1024$ Control or Vortice $1024$ Control or Vortice $1024$ Control or Vortice           Mds trans: $1024$ Control or Vortice $1024$ Control or Vortice $1024$ Control or Vortice           Mds trans: $1024$ Control or Vortice $1024$ Control or Vortice $1024$ Control or Vortice           Mds trans: $1024$ Control or Vortice $1024$ Control or Vortice $1024$ Control or Vortice           Mds trans: $1024$ Control or Vortice <th>Chent:</th> <th></th> <th>Mata</th> <th>dor</th> <th></th> <th>Initial Spill Information</th> <th>a - Record on F</th> <th></th> <th></th>  | Chent:  |  | Mata        | dor       |                              | Initial Spill Information   | a - Record on F |             |            |
| Bh Coather:     April 1 Content:     April 1 Content:     April 1 Content:       Might Margare:     April 1 Content:     April 1 Content:     April 1 Content:       Might Margare:     April 1 Content:     April 1 Content:     April 1 Content:       Might Margare:     April 1 Content:     April 1 Content:     April 1 Content:       Might Margare:     April 1 Content:     April 1 Content:     April 1 Content:       Might Margare:     Bornerial Content:     April 1 Content:     April 1 Content:       Might Margare:     Bornerial Content:     April 1 Content:     April 1 Content:       Might Margare:     Bornerial Content:     April 1 Content:     April 1 Content:       Might Margare:     Bornerial Content:     April 1 Content:     April 1 Content:       Might Margare:     Bornerial Content:     April 1 Content:     April 1 Content:       Might Margare:     Borneria:     April 1 Content:     April 1 Content:     April 1 Content:       B H 2 Content:     April 1 Content:     April 1 Content:     April 1 Content:     April 1 Content:       B H 3 Content:     April 1 Content:     April 1 Content:     April 1 Content:     April 1 Content:       S S 1 Content:     April 1 Content:     April 1 Content:     April 1 Content:     April 1 Content:       S S 3 Content:     April 1 Content: <td>Dube</td> <td></td> <td>3/19</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td>   | Dube  |  | 3/19        | 0         |                              |   |                 |             |            |
| Product Manager:         Product Manager:           Product Manager:         Product Manager:           Product Manager:         Product Manager:           Product Manager:         Product Manager:           Strept R:         Product Manager:           D: Strept R:         Product Manager:  | SRu Namer   |  | Tony        | Le Kus    | 556                          |   |                 |             |            |
| Projet Manager:         Sampling         Description           Sampling         Lind Screening         Lind Screening         Lind Screening           B LH (         O         Screening         Screening         Lind Screening           B H 2         O         Lind Screening         Lind Screening         Lind Screening           B H 3         O         Screening         Screening         Screening           B H 3         O         Screening         Screening         Screening           S S 1         O         Screening  | Silve Cocations   |  |             |           |                              | - Spill Cause:  |                 |             |            |
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| $\begin{array}{c c c c c c c c c c c c c c c c c c c $   |   | n.   |             |           |                              | Recovered Spill Volume  |                 |             |            |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | ("TOJUCT N:   | -  |             |           | Franklin                     | Recovery Method:  |                 |             |            |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | Depth (ft)   | VOC (PID)   |           | Quantab<br>(High/Low) 5 or - |   |                 | Trimbla     | Marked o   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | Number  | Ex. '2ft   | Ex. 400 ppm | 200 ppm   | Ex. High+                    |   |                 | Coordinates | Site Skete |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | BHI   | 0  |             | 5.69      |                              |   |                 |             |            |
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| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |   |  |             | 50.1      |                              |   |                 |             |            |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | 0.5  |             | 110.9     |                              |   |                 |             |            |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | 1  |             | 0.32/6.6  |                              |   |                 |             |            |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | BH3   | 0  |             | 7.45/7.6  |                              | the second |                 |             |            |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | 0.5  |             | 0.25/     |                              |   |                 |             |            |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | DIG   |  |             | 10.411    |                              |   |                 |             |            |
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| $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | 551   | 0  | K           | 2. 38 Jaz |                              | 0.89/107  |                 |             | -          |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | (   |  |             | - Pirt    |                              | 0.38/   |                 |             |            |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   |  |             | 108/      |                              | /18.5   |                 |             |            |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | the second se |  |             | 18.6      |                              |   |                 |             |            |
| 0.5 0.19/85<br>554 D 0.02/12.3<br>554 0.5 0.31/12.5  |   | 0-5  | 2           | 19.1      |                              |   |                 |             |            |
| 0.5 0.19/6.9<br>554 D 0.08/1.a<br>554 0.5 0.31/1.5   | 553   | 0  | ć           | 2.14/ -   |                              |   | -               |             |            |
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| Malling Address:     On     File     Tony     Le Russa State Containt     Www.hallenvironmental.com       Phone #     001 Hawkins NE - Abuquenye, MA 8710       Phone #     002 - 00339 - 004e     Tel. 505-345-3075       Phone #     002 - 00339 - 004e     Tel. 505-345-3075       email or Fault:     Project Manager:     N at at ic Cordon       Avace Paskage:     Level 4 (Full Validation)     N at at ic Cordon       NetLAC - 0 Other     On face:     Yes     No       Date     Time     Matrix Sample Name     Projend #       Type and #     Type and #     Full Validation     HEAL No.       1/2 JOS - 1     1     Projend #     Place and the place of  |       |               | tex          |                        | Draiget Na   | ard CRus                     |   | -    | E    |       |       | AN     | AL `   | YS    | TC    | LAT     | NM   |
|---|-------|---------------|--------------|------------------------|--|------------------------------|---|------|------|-------|-------|--------|--------|-------|-------|---------|------|
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| email or Fask:         Project Manage:         Notability         Analysis Recent           0.5000 Pessage:         Notability         <   | Phon  | e #:          | -            |                        | 20E -  | .00239 -                     | oole  | L    |      | Tel.  | 505-3 | 45-39  | 75     | Fa    | yuerq | E 246   | 8710 |
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|   |       |               | ń.           |                        | FIDJOCI MIC  | tali. C                      | andra   |      | 21)  | De la |       |        |        | -     |       |         |      |
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| 12:20 0° 1:00   |       |               |              |                        | Received by:<br>subcontracted to other acc   | Via:                         | Date Time   | ma   |      | 90    | c     |        |        |       |       |         |      |
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| Tonula  |       | NECESSARY, SA |              |                        | Received by:<br>subcontracted to other acc   | Via:                         | Date Time   | ma   |      | 90    | c     |        |        |       |       |         |      |
| Tony La<br>Bussa 3/A<br>BH20-01 MSF<br>Please Hold<br>Please Hold<br>BH20-04 MJP<br>BH20-04 MJP<br>BH20-04 MJP  |       | NECESSARY, SA |              | Tony<br>BH20-01<br>0.5 | Received by:<br>I subcontracted to other acc<br>I L L S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S   | Via:                         | Date Time   | ma   |      | 90    | c     |        |        |       |       |         |      |
| Tony La<br>Bussa 3/R<br>BH20.01 MJP<br>Please Hold<br>Please Hold<br>BH20.01 1.20   |       | NECESSARY, SA |              | Tony<br>BH20-01<br>0.5 | Received by:<br>I subcontracted to other acc<br>I L L S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S   | Via:                         | Date Time   | ma   |      | 90    | c     |        |        |       |       |         |      |
| Tony La<br>Bussa<br>BH20-01 MIP<br>Please Hold<br>Please Hold   |       | NECESSARY, SA |              | Tony<br>BH20-01<br>0.5 | Received by:<br>I subcontracted to other acc<br>I L L S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S   | Via:                         | Date Time   | ma   |      | 90    | c     |        |        |       |       |         |      |
| Tony La<br>Bussa 3/R<br>BH20-01 MSP<br>Please Hold<br>Please Hold<br>BH20-01 1:30<br>BH20-01 1:30   |       | NECESSARY, SA |              | Tony<br>BH20-01<br>0.5 | Received by:<br>I subcontracted to other acc<br>I L L S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S   | Via:                         | Date Time   | ma   |      | 90    | c     |        |        |       |       |         |      |
| BH20:01 MJP<br>BH20:01 MJP<br>Please Hold<br>BH20:01 MJP<br>BH20-04 MJP<br>BH20-04 MJP  |       | NECESSARY, SA |              | Tony<br>BH20-01<br>0.5 | Received by:<br>I subcontracted to other acc<br>I L L S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S   | Via:                         | Date Time   | ma   |      | 90    | c     |        |        |       |       |         |      |
| BH20:01 MJP<br>BH20:01 MJP<br>Please Hold<br>Please Hold  |       | NECESSARY, SA |              | Tony<br>BH20-01<br>0.5 | Received by:<br>I subcontracted to other acc<br>I L L S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S S<br>S   | Via:                         | Date Time   | ma   |      | 90    | c     |        |        |       |       |         |      |
| BH20,01 MJP<br>Please Hold BH20-04 MJP<br>Please Hold BH20-04 MJP   |       | NECESSARY, SA |              | BH20-01<br>0.5         | Theread by<br>Theread by<br>Therea | Va:<br>product laboratores a | Dete         Time           The series in rotate of the         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG | ma   |      | 90    | c     |        |        |       |       |         |      |
| BH2010 1 1955 BH20-04 MJP<br>Please Hold BH20-04 MJP  |       | NECESSARY, SA |              | BH20-01<br>0.5         | Theread by<br>Theread by<br>Therea | Va:<br>product laboratores a | Dete         Time           The series in rotate of the         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG | ma   |      | 90    | c     |        |        |       |       |         |      |
| Please Hold BH20-10 1:20  |       | NECESSARY, SA |              | BH20-01<br>0.5         | Theread by<br>Theread by<br>Therea | Va:<br>product laboratores a | Dete         Time           The series in rotate of the         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG | ma   |      | 90    | c     |        |        |       |       |         |      |
| Please Hold Br 3 Lias   |       | NECESSARY, SA |              | BH20-01<br>0.5         | Theread by<br>Theread by<br>Therea | Va:<br>product laboratores a | Dete         Time           The series in rotate of the         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG | ma   |      | 90    | c     |        |        |       |       |         |      |
| Pluse How   |       | NECESSARY, SA |              | BH20-01<br>0.5         | Theread by<br>Theread by<br>Therea | Va:<br>product laboratores a | Dete         Time           The series in rotate of the         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG | ma   |      | 90    | c     |        |        |       |       |         |      |
|   |       | NECESSARY, SA |              | BH20-01<br>0.5         | Theread by<br>Theread by<br>Therea | Va:<br>product laboratores a | Dete         Time           The series in rotate of the         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG | ma   |      | 90    | c     |        |        |       |       |         |      |
|   |       | NECESSARY, SA |              | BH20-01<br>0.5         | Theread by<br>Theread by<br>Therea | Va:<br>product laboratores a | Dete         Time           The series in rotate of the         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG | ma   |      | 90    | c     |        |        |       |       |         |      |
|   |       | NECESSARY, SA |              | BH20-01<br>0.5         | Theread by<br>Theread by<br>Therea | Va:<br>product laboratores a | Dete         Time           The series in rotate of the         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG | ma   |      | 90    | c     |        |        |       |       |         |      |
|   |       | NECESSARY, SA |              | BH20-01<br>0.5         | Theread by<br>Theread by<br>Therea | Va:<br>product laboratores a | Dete         Time           The series in rotate of the         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG | ma   |      | 90    | c     |        |        |       |       |         |      |
|   |       | NECESSARY, SA |              | BH20-01<br>0.5         | Theread by<br>Theread by<br>Therea | Va:<br>product laboratores a | Dete         Time           The series in rotate of the         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG           Tony LG         Tony LG | ma   |      | 90    | c     |        |        |       |       |         |      |

VERTEX

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Run on 3/19/2020 11:36 PM UTC

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**Released to Imaging: 4/24/2023 1:40:08 PM** 



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#### **Summary of Daily Operations**

12:41 Characterize spill area on pad and off pad. Delineation vertically and horizontally. Part of spill is behind equipment underneath piping

14:08 Area on pad has been driven through and could use possible surface scrape where roadway goes through

**16:27** Area off pad on the east side seems to have been deepest spot to clean up, fluid seemed to have puddled up and sat in this area. Soil was very loamy in pasture and under pad about 0.5 inches got loamy under what they used to build the pad. Top 0.5 inches was very rocky and hard packed

#### **Next Steps & Recommendations**

#### 1 Wait on lab analysis

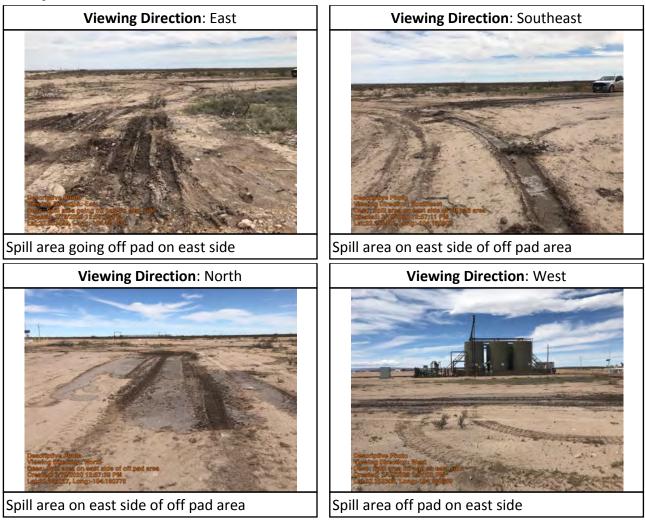
- 2 Get six inch scrape completed to keep chlorides from going any deeper
- 3 Develop work plan for remediation on off pad area in pasture
- **4** Possibly scrape roadway on pad for possible tracking of pw via vehicles



## **Site Photos** Viewing Direction: East Viewing Direction: East Spill behind point of release under piping and Spill area on pad north of point of release behind equipment Viewing Direction: Northeast Viewing Direction: Southeast HERE TRUE FILE Il colos to off Spill area on north side of point of release Spill area on pad leading to spill going to towards risers offpad area



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#### **Daily Site Visit Signature**

Inspector: Monica Peppin Signature: Signature



| Client:                 | Matador Resources                    | Inspection Date:  | 4/20/2020                    |
|-------------------------|--------------------------------------|-------------------|------------------------------|
| Site Location Name:     | Tony La Russa State Com<br>201H/202H | Report Run Date:  | 4/20/2020 11:17 PM           |
| Project Owner:          | John Hurt                            | File (Project) #: | 20E-00239                    |
| Project Manager:        | Natalie Gordon                       | API #:            | 30-015-45964                 |
| Client Contact Name:    | John Hurt                            | Reference         | 3/18/2020 - 12 bbls PW Spill |
| Client Contact Phone #: |                                      |                   |                              |
|                         |                                      | Summary of        | Times                        |
| Left Office             | 4/20/2020 6:15 AM                    |                   |                              |
| Arrived at Site         | 4/20/2020 6:50 AM                    |                   |                              |
| Departed Site           |                                      |                   |                              |
| Returned to Office      |                                      |                   |                              |

#### Summary of Daily Operations

7:58 Begin excavation of pasture area on east side of tank battery and pad area on north side of tank battery.

**15:33** Excavation to continue into tomorrow. Pasture area is complete with fencing around deeper excavated spot

**Next Steps & Recommendations** 

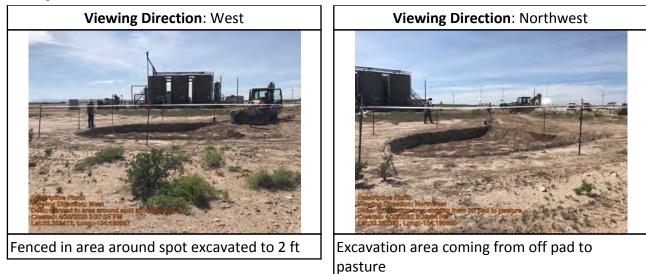
1 Collect confirmation samples

2 Continue guiding excavation with field screens



# **Site Photos** Viewing Direction: South Viewing Direction: South Hand dig area around equipment on north side Pasture excavation depth of 2 ft of containment Viewing Direction: East Viewing Direction: Southeast Start of excavation on pad Excavated area where spill had went into pasture







**Daily Site Visit Signature** 

Inspector: Monica Peppin

Signature:



| Client:                 | Matador Resources                    | Inspection Date:  | 4/21/2020                    |
|-------------------------|--------------------------------------|-------------------|------------------------------|
| Site Location Name:     | Tony La Russa State Com<br>201H/202H | Report Run Date:  | 4/21/2020 8:33 PM            |
| Project Owner:          | John Hurt                            | File (Project) #: | 20E-00239                    |
| Project Manager:        | Natalie Gordon                       | API #:            | 30-015-45964                 |
| Client Contact Name:    | John Hurt                            | Reference         | 3/18/2020 - 12 bbls PW Spill |
| Client Contact Phone #: |                                      |                   |                              |
|                         |                                      | Summary of        | Times                        |
| Left Office             | 4/21/2020 6:30 AM                    |                   |                              |
| Arrived at Site         | 4/21/2020 7:00 AM                    |                   |                              |
| Departed Site           | 4/21/2020 1:10 PM                    |                   |                              |
| Returned to Office      |                                      |                   |                              |



|   |            |  |          |                         | Site S   | Sketch   |  |
|---|------------|--|----------|-------------------------|--|--|--|
|   |            | Site Name:<br>Site Location:                     |          | Tony                    | La Ru  | 552  | Spill Volumo:<br>Spill Carcing   |
|   |            | Project Owner;                                   | ₩×,      |                         |  | a (). ( an | Spill Product:   |
|   |            | Project Manager:                                 |          | Recovered Spill Volume: |  |  |  |
| 1 | Project #: |  |          | 1                       |  | Recovery Method:                               |  |
|   |            | Sample ID Depth (ft)                             |          | VOC (PID)               | Hold Scronning<br>PotroHag TPH<br>(ppm)  | Quantab<br>(High/Low) + or                     | Data Collection<br>Lab Analysis  |
|   |            | SS/TP/IH1 - Year -<br>Number<br>Ex. BH18-01      | Ex. '2ft | Ex. 400 ppm             | 200 ppm  | Ex. High+                                      | Ex. Hydrocarbon<br>Chloride  |
|   | part       | BSI  | 0.5      | 11:15                   |  | 0.7/23.1                                       |  |
|   | pad        | BSQ  | 0.5      | 11:25                   |  | 0.95/30.6                                      | Section States   |
|   | pal        | BS 3   | 0.5      | 11:35                   |  | 0.40/23.8                                      | Mar Pine   |
|   | post.      | BS 4   | 0.5      | 11:45                   |  | 0.31/31.5                                      | anner for a set of a second back and a difference of a second second second second second second second second   |
|   | pest       | BS 5   | 0.5      | 11:55                   |  | 0.24 27.0                                      | 11-1-1   |
|   | part       | BS Le  | 2        | 12:05                   |  | 0.34/26.0                                      |  |
|   | past       | BSJ  | 2        | 12:15                   |  | 0.2632.4                                       | and a fair in the particular sector of the sector sector and the sector sector and the sector s   |
|   | past       | B\$ 8  | 2        | 12:25                   |  | 0.30/27.5                                      |  |
|   | pad        |  | 0-0.5    | 11:06                   | and the set of the set | 0.78/23.8                                      | The second  |
|   |            | WS 2   | 0-0.5    | 9:30                    |  | 0.80/29.6                                      |  |
|   | pad        | and the statement of the statement of the        | 0-0.5    | 9:40                    |  | 0.64/23.0                                      | The second  |
|   | Past       |  | 0-0.5    | 9:50                    | N  | 0.20/26  | 5  |
|   | past       | WS S   | 0-0.5    | 10:00                   |  | 0.34/21.1                                      | and the second se  |
|   | Past       | w5 6   | 0-2      | 10:10                   |  | 0.31/21.3                                      | and provide the set of |
|   | Post       | a second much second of the second second second | 0-2      | 10:20                   |  | 0.30/28  |  |
|   | Past       | WS 8   | 0-2      | 10:30                   |  | 0.33/26  | 2  |
|   |            | ws9  | 0-0.5    | 10:40                   |  | 0.35/37.1                                      |  |
|   | pad        | NSIO   | 0.0.5    | 10:50                   |  | 1.31/23.0                                      |  |
|   | -          |  |          |                         |  | and an other statements                        | the second se  |
|   |            | 1  |          |                         |  | and the second second second                   |  |

Run on 4/21/2020 8:33 PM UTC

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Run on 4/21/2020 8:33 PM UTC



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#### **Summary of Daily Operations**

**9:26** Continue guidance of excavation. Collect confirmation samples throughout excavation of base and side walls, map out excavation area and sample points

#### **Next Steps & Recommendations**

1 Await lab analysis

2 Complete backfill

**3** Start closure report



# **Site Photos** Viewing Direction: West Viewing Direction: South Pad area excavated on north side of Hand dig area underneath equipment containment Viewing Direction: East Viewing Direction: Southeast Excavated area on pad going towards pasture Excavated area following road way from pad to pasture excavation

Run on 4/21/2020 8:33 PM UTC









Side wall near containment of excavation



**Daily Site Visit Signature** 

Inspector: Monica Peppin

Signature:

| Carera .   |  | GENERAT  |   | NO.  | 198912  |         |
|--|--|--|---|--|---|---------|
| erator No.   | 2  |  | Permit/RRC No.<br>Lease/Well  |  |   | -       |
| erators Name Malader   | 1650Urces  |  | Name & No.  | Tary lo  | Rosa Stions.  | 20      |
| dress  |  | and the second s | County  | 428-101  | 5-45964   | -       |
| y, State, Zip  | - 1  |  | API No.<br>Rig Name & No.   |  | 1 12 12 1   |         |
| one No. 140.390.   | 1801/972   | 11 8491  | AFE/PO No.  |  |   |         |
|  |  | ification and Amount (place  | volume next to w  | aste type in barrels or  | cubic yards)<br>(type and generation process of the waste)  |         |
| Based MudsBased Cuttings   | Washout Water (N   | Ion-Injectable)  |   | UTHER EXEMPT WASTES  | AGADE DATA DESCRIPTION DESCRIPTION  |         |
| ater Based Muds  | Completion Fluid/<br>Produced Water (  | Flow back (Non-Injectable)<br>Non-Injectable)  |   | and the second   |   |         |
| oduced Formation Solids  | Gathering Line Wa  | ater/Waste (Non-Injectable)  |   | Lallar A   | 1   |         |
| P Contaminated Soil 20 Vo  |  |  |   | Brlly o  | varp  |         |
| STE GENERATION PROCESS:  | DRILLING   |  | N   | PRODUCTION   | GATHERING LINES   |         |
|  |  | N-EXEMPT E&P Waste/Service Id  |   |  | and Deservities   |         |
| All non-exemp  | L L&P waste must be analy  | sed and be below the threshold   |   | .P), Ignitability, Corrosivity<br>om Non-Exempt Waste List   |   |         |
|  |  |  | -   |  |   |         |
| ANTITY   |  | B - BARRELS  | Cia   | VANC Y-YAR   | 100   | dand    |
| reby certify that the above listed material(s<br>kaged, and is in proper condition for transp  |  |  | 261 or any applicable   | state law. That each wast  | te has been properly described, classifie   | d and   |
|  |  | nd gas exploration and production  | on operations and are   | not mixed with non-exem  | pt waste (R360 Accepts certifications or  | n a per |
| RCRA NON-EXEMPT: Oil field w   |  | us that does not exceed the mini   | imum standards for w  | aste hazardous by characte   | eristics established in RCRA regulations,   | , 40 CF |
|  | 51.24, or listed hazardous w   | vaste as defined by 40 CFR, part 3   |   |  | mentation demonstrating the waste as  |         |
| havardou   |  |  |   |  |   |         |
| hazardou:  |  | propriate items as provided)<br>RCRA Hazardous Waste Analysis  | s 🗌   | Other (Provide Descriptio  | on Below)   |         |
|  |  |  | 5   | Other (Provide Descriptio  | on Below)   | _       |
| Joshua Val   |  | RCRA Hazardous Waste Analysis  |   | Other (Provide Descriptio  |   |         |
|  |  | RCRA Hazardous Waste Analysis  | - 70 - 7 ð<br>DATE  | Other (Provide Descriptio  | on Below)<br>Signature  |         |
| PRINT) AUTHORIZED AGENTS SIGNATURE   |  | RCRA Hazardous Waste Analysis  |   |  | SIGNATURE   |         |
| MSDS Info MSDS Info MSDS Info (PRINT) AUTHORIZED AGENTS SIGNATURE  Asporter's  Action  |  | RCRA Hazardous Waste Analysis  | DATE<br>RTER<br>Driver's Name   |  |   |         |
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| MSDS Info MSDS Info MSDS Info (PRINT) AUTHORIZED AGENTS SIGNATURE  | rycking<br>clo 16<br>yr 9764   | RCRA Hazardous Waste Analysis<br>11-<br>TRANSPO  | DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.   | Detel<br>6066/v  | SIGNATURE<br>Dom N<br>11/2 40 89  |         |
| MSDS Info<br>MSDS Info<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>Insporter's<br>ne<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Inc<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter's<br>Insporter | rycking<br>clo 16<br>yr 9764   | RCRA Hazardous Waste Analysis<br>11-<br>TRANSPO  | DATE<br>DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>e and delivered withou   | Detel<br>6066/v  | SIGNATURE<br>Dom N<br>11/2 40 89  |         |
| MSDS Info<br>MSDS Info<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>INSPORTER'S<br>ne<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info<br>Info   | ormation   | RCRA Hazardous Waste Analysis<br>11-<br>TRANSPO  | DATE<br>DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>e and delivered withou<br>DEUVE  | Logo Control C | SIGNATURE<br>Dow M<br>112 40 89<br>facility listed below.   |         |
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| MSDS Info  MSDS Info  (PRINT) AUTHORIZED AGENTS SIGNATURE  | ormation   | RCRA Hazardous Waste Analysis  | Date<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>a and delivered withou<br>DELIVE<br>ACILITY<br>Phone No.<br>If YES, was readi                                      | ADDATE<br>ADDATE<br>ADDATE<br>ADDATE<br>RI<br>Name/No  | SIGNATURE<br>Down<br>ADD 899<br>facility listed below.<br>DRIVER'S SIGNATURE<br>ECEIVING-AREA<br>D.                         | 0       |
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| MSDS Info  MSDS Info  (PRINT) AUTHORIZED AGENTS SIGNATURE  | ormation   | RCRA Hazardous Waste Analysis<br>TRANSPO   | DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>and delivered withou<br>DEUVE<br>ACILITY<br>Phone No.<br>If YES, was readi<br>Conductivity<br>(mmhos/cm)_<br>TOIMS | A32-448-4239   | SIGNATURE   |         |
| MSDS Info  MSDS Info  (PRINT) AUTHORIZED AGENTS SIGNATURE  | ormation   | RCRA Hazardous Waste Analysis<br>TRANSPO   | DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>and delivered withou<br>DEUVE<br>ACILITY<br>Phone No.<br>If YES, was readi<br>Conductivity<br>(mmhos/cm)_<br>TOIMS | A32-448-4239<br>www.balls Received<br>Free Water   | SIGNATURE<br>Dom M<br>A MO 899<br>facility listed below.<br>DRIVER'S SIGNATURE<br>ECEIVING AREA<br>D.<br>(circle one) YES M |         |
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|  | ormation   | RCRA Hazardous Waste Analysis<br>TRANSPO   | DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>and delivered withou<br>DEUVE<br>ACILITY<br>Phone No.<br>If YES, was readi<br>Conductivity<br>(mmhos/cm)_<br>TOIMS | A32-448-4239<br>W/BBLS Received<br>Free Water<br>Total Received  | SIGNATURE   |         |
| MSDS Info      MSDS Info      (PRINT) AUTHORIZED AGENTS SIGNATURE  | ormation   | RCRA Hazardous Waste Analysis  | DATE  RTER  Driver's Name Print Name Print Name Phone No. Truck No. e and delivered withou DELIVE  ACILLITY  Phone No.  If YES, was readi Conductivity (mmhos/cm)_  TOMS  BS                | A32-448-4239<br>W/BBLS Received<br>Free Water<br>Total Received  | SIGNATURE   |         |

|  |  | CENERAS  | TOD   | 110   |   |
|--|--|--|---|---|---|
| Operator No.   |  | GENERAT  | Permit/RRC No.  | NO.   | 198923  |
| Operators Name AMTAdor   | Recour   | 525  | Lease/Well<br>Name & No.  | tomy - 6  | 4 RUSSHSTElun 20  |
| Address  |  |  | County<br>API No.   | 20,010  | . YEEKY   |
| City, State, Zip   |  |  | Rig Name & No.  | -302 0 7 3  |   |
| Phone No. <u>940.390</u>   |  | 3715499  | AFE/PO No.  |   |   |
| EXEMPT E&P V<br>Oil Based Muds   | Naste/Service Identific  |  | e volume next to wa   | ste type in barrels or cubic<br>OTHER EXEMPT WASTES (type   | c yards)<br>and generation process of the waste)  |
| Oil Based Cuttings   | Washout Water (Non-<br>Completion Fluid/Flow   | -Injectable)<br>v back (Non-Injectable)  |   |   | And and a supervised on   |
| Water Based Cuttings Produced Formation Solids   | Produced Water (Non  |  |   |   | COLUMN TRADE OF TAXABLE PARTY.  |
| Tank Bottoms<br>E&P Contaminated Soil  | INTERNAL USE ONLY  |  |   |   | A REAL PROPERTY.  |
| Gas Plant Waste  | Truck Washout (exem  |  |   | Briky, du   | al  |
| WASTE GENERATION PROCESS:  | DRILLING   | COMPLETIO  | IN  | PRODUCTION  | GATHERING LINES   |
| All non-exempt E&  |  | XEMPT E&P Waste/Service Id<br>and be below the threshold   |   | ant<br>?), Ignitability, Corrosivity and F  | Reactivity.   |
| Non-Exempt Other   |  |  | *please select from   | m Non-Exempt Waste List on  | back  |
| QUANTITY   | B - E  | BARRELS  | 20  | D Y - YARDS   | E - EACH  |
| I hereby certify that the above listed material(s), is   |  |  | 261 or any applicable s   | tate law. That each waste has   | been properly described, classified and   |
| packaged, and is in proper condition for transporta  |  |  | n operations and are n  | at mixed with non-evernat wa  | ste (R360 Accepts certifications on a per   |
| RCRA EXEMPT: load basis only   | the second s   | as exploration and productio   | in operations and are n   | or made with hor exempt no  |   |
|  |  |  |   |   |   |
| RCRA NON-EXEMPT: Oil field waste   | which is non-hazardous th  |  |   |   | s established in RCRA regulations, 40 CFR   |
| RCRA NON-EXEMPT: Oil field waste<br>261.21-261.24  | which is non-hazardous th  | e as defined by 40 CFR, part 2   |   |   | es established in RCRA regulations, 40 CFR ation demonstrating the waste as non-  |
| RCRA NON-EXEMPT: Oil field waste<br>261.21-261.24  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp   | e as defined by 40 CFR, part 2   | 261, subpart D, as amer   |   | ation demonstrating the waste as non-   |
| CII Field waste<br>261.21-261.24<br>hazardous is a<br>MSDS Informa   | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ition RCR  | e as defined by 40 CFR, part 2<br>priate items as provided)<br>IA Hazardous Waste Analysis                       | 261, subpart D, as amer   | nded. The following document  | ation demonstrating the waste as non-   |
| RCRA NON-EXEMPT: Oil field waste<br>261.21-261.24<br>hazardous is a  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp   | e as defined by 40 CFR, part 2<br>priate items as provided)<br>IA Hazardous Waste Analysis                       | 261, subpart D, as amer   | nded. The following document  | ation demonstrating the waste as non-   |
| CRCRA NON-EXEMPT: Oil field waste<br>261.21-261.24<br>hazardous is a<br>MSDS Information<br>(PRINT) AUTHORIZED AGENTS SIGNATURE  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ition RCR  | e as defined by 40 CFR, part 2<br>priate items as provided)<br>IA Hazardous Waste Analysis                       | 261, subpart D, as amer   | nded. The following document  | ation demonstrating the waste as non-<br>ow)  |
| CRIANON-EXEMPT: Oil field waste<br>261.21-261.24<br>hazardous is a<br>MSDS Information<br>(PRINT) AUTHORIZED AGENTS SIGNATURE  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ition RCR  | e as defined by 40 CFR, part 2<br>priate items as provided)<br>IA Hazardous Waste Analysis                       | 261, subpart D, as amer   | nded. The following document  | ation demonstrating the waste as non-<br>ow)  |
| CREANON-EXEMPT: Oil field waste<br>261.21-261.24<br>hazardous is a<br>MSDS Information<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>CREINTY AUTHORIZED AGENTS SIGNATURE<br>CREINTY AUTHORIZED AGENTS SIGNATURE<br>CREINTY AUTHORIZED AGENTS SIGNATURE   | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR  | e as defined by 40 CFR, part 2<br>priate items as provided)<br>tA Hazardous Waste Analysis<br>TZ LI-<br>TRANSPOI | 261, subpart D, as amer<br>20 -70<br>DATE<br>RTER   | nded. The following document  | ation demonstrating the waste as non-<br>ow)  |
| CREANON-EXEMPT: Oil field waste<br>261.21-261.24<br>hazardous is a<br>MSDS Information<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>OK TOWNER<br>Transporter's<br>Name  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR  | e as defined by 40 CFR, part 2<br>priate items as provided)<br>tA Hazardous Waste Analysis<br>TZ LI-<br>TRANSPOI | 261, subpart D, as amer<br>200-70<br>Date<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.   | other (Provide Description Bel  | ation demonstrating the waste as non-<br>ow) SIGNATURE  |
| CREANON-EXEMPT: Oil field waste<br>261.21-261.24<br>hazardous is a<br>MSDS Information<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>CRENTS AGENTS AGE  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR<br>Dodr.gun<br>condr.gun   | e as defined by 40 CFR, part 2<br>priate items as provided)<br>(A Hazardous Waste Analysis<br>(2                 | 261, subpart D, as amer<br>200–70<br>DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.  | Other (Provide Description Bel  | ation demonstrating the waste as non-<br>ow)<br>SIGNATURE<br>YUSY   |
| RCRA NON-EXEMPT: Oil field waste<br>261.21-261.24<br>hazardous is a<br>MSDS Information<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>Transporter's<br>Name<br>Address<br>Phone No.<br>hereby certify that the above named material(s) v  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR<br>Madrigue<br>d. Madrigue<br>d. Madrigue<br>was/were picked up at the   | e as defined by 40 CFR, part 2<br>priate items as provided)<br>(A Hazardous Waste Analysis<br>(2                 | 261, subpart D, as amer<br>200–70<br>DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.  | Other (Provide Description Bel  | ation demonstrating the waste as non-<br>ow)<br>SIGNATURE<br>YUSY   |
| CREA NON-EXEMPT: Oil field waste<br>261.21-261.24<br>hazardous is a<br>MSDS Informa<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>CREATE AGENTS SIGNATURE<br>CREATE AGENTS SIGNATURE<br>CREATE AGENTS SIGNATURE<br>CREATE AGENTS SIGNATURE<br>CREATE AGENTS SIGNATURE<br>CREATE AGENTS SIGNATURE  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR<br>Dodr.gun<br>condr.gun   | e as defined by 40 CFR, part 2<br>priate items as provided)<br>(A Hazardous Waste Analysis<br>(2                 | 261, subpart D, as amer<br>200–70<br>DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.  | Definition of the following document:   | ation demonstrating the waste as non-<br>ow)<br>SIGNATURE   |
| CREA NON-EXEMPT: Oil field waste<br>261.21-261.24<br>hazardous is a<br>MSDS Informa<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>(PRINT) AGENTS (PRINT) AGENTS | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR<br>Madrigue<br>day and a second<br>day   | e as defined by 40 CFR, part 2<br>priate items as provided)<br>(A Hazardous Waste Analysis<br>(2                 | 261, subpart D, as amer<br>20 -70<br>DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>e and delivered without<br>DELIVER  | other (Provide Description Bel  | ation demonstrating the waste as non-<br>ow)<br>SIGNATURE   |
| RCRA NON-EXEMPT: Oil field waste<br>261.21-261.24<br>hazardous is a<br>MSDS Information<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>(PRINT) AUTHORIZED AGENTS SIGNATURE<br>Transporter's<br>Name<br>Address<br>Phone No.<br>I hereby certify that the above named material(s) waste<br>SHIPMENT DATE   | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR<br>Madrigue<br>day and the approp<br>day and the approp<br>day and the approp<br>day and the appropriate<br>and the appropriate<br>day and the appropriate<br>day appropriate day appropriate day appropriate<br>day appropriate day appropriate day appropriate day appropriate<br>day appropriate day approprist day appropriate day appropriate day ap  | e as defined by 40 CFR, part 2<br>priate items as provided)<br>tA Hazardous Waste Analysis<br>TRANSPOI           | 261, subpart D, as amer<br>20 -70<br>DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>e and delivered without<br>DELIVER  | Definition of the following document:   | ation demonstrating the waste as non-<br>ow)<br>SIGNATURE   |
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|  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR<br>Dadr.gun<br>damge<br>damge<br>was/were picked up at the<br>DRIVER'S SIGNATURE<br>P<br>19770<br>ne) YES  | e as defined by 40 CFR, part 2<br>priate items as provided)<br>A Hazardous Waste Analysis<br>TRANSPOI            | 261, subpart D, as amer<br>261, subpart D, as amer<br>200-70<br>DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>e and delivered without<br>DELIVER<br>ACILITY<br>Phone No.<br>If YES, was readin<br>Conductivity<br>(mmhos/cm)<br>TOMS | Aded. The following document:<br>Other (Provide Description Bel<br>Carlot Market<br>Correction of the disposal facility<br>V DATE<br>RECE<br>Name/NO.<br>432-448-4239<br>Ing > 50 micro roentgens? (circle<br>W/BBLS Received<br>Free Water   | ation demonstrating the waste as non-<br>ow)<br>SIGNATURE<br>SIGNATURE<br>UNING AREA<br>EIVING AREA<br>e one) YES NO<br>pH  |
|  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR<br>Dadr.gun<br>damge<br>damge<br>was/were picked up at the<br>DRIVER'S SIGNATURE<br>P<br>19770<br>ne) YES  | e as defined by 40 CFR, part 2<br>priate items as provided)<br>A Hazardous Waste Analysis<br>TRANSPOI            | 261, subpart D, as amer<br>261, subpart D, as amer<br>200-70<br>DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>e and delivered without<br>DELIVER<br>ACILITY<br>Phone No.<br>If YES, was readin<br>Conductivity<br>(mmhos/cm)<br>TOMS | other (Provide Description Bel<br>Conter (Provide Description Bel<br>C  | ation demonstrating the waste as non-<br>ow)<br>SIGNATURE<br>SIGNATURE<br>UNING AREA<br>EIVING AREA<br>e one) YES NO<br>pH  |
|  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR<br>Dedr. 944<br>Charles Construction<br>Construction<br>DRIVER'S SIGNATURE<br>IP<br>DRIVER'S SIGNATURE<br>IP<br>97770<br>ne) YES   | e as defined by 40 CFR, part 2<br>priate items as provided)<br>A Hazardous Waste Analysis<br>TRANSPOI            | 261, subpart D, as amer<br>261, subpart D, as amer<br>200-70<br>DATE<br>RTER<br>Driver's Name<br>Print Name<br>Phone No.<br>Truck No.<br>e and delivered without<br>DELIVER<br>ACILITY<br>Phone No.<br>If YES, was readin<br>Conductivity<br>(mmhos/cm)<br>TOMS | Aded. The following document:<br>Other (Provide Description Bel<br>Calada and Advention Bel<br>Calada and | ation demonstrating the waste as non-<br>ow)<br>SIGNATURE<br>SIGNATURE<br>UNING AREA<br>EIVING AREA<br>e one) YES NO<br>pH  |
|  | which is non-hazardous th<br>, or listed hazardous waste<br>ttached. (Check the approp<br>ntion RCR<br>Dedr. 944<br>2000 000<br>2000 00000000  | e as defined by 40 CFR, part 2<br>priate items as provided)<br>TA Hazardous Waste Analysis<br>TRANSPOI           | 261, subpart D, as amer   | Aded. The following document:<br>Other (Provide Description Bel<br>Calada and Advention Bel<br>Calada and | ation demonstrating the waste as non-<br>ow)<br>SIGNATURE<br>SIGNATURE<br>UNING AREA<br>EIVING AREA<br>e one) YES NO<br>pH  |

|  | 1 cover g = 1= 101 6 synthe con  | Phone No. 770 310 186   |
|--|--|---|
| perator No   | GENERATOR<br>Permit/RRC N<br>Lease/Well<br>Name & No.  | NO. 198934  |
| tdress   | County API No. Rig Name & N  | 30 015 - 45964  |
| none No. 9416 - 916 . 1867 / 976   | 371 5117 AFE/PO No.  |   |
| III Based Muds NON-INJECT Washout Wash | Identification and Amount (place volume next to<br>TABLE WATERS<br>Jater (Non-Injectable)<br>Fluid/Flow back (Non-Injectable)<br>Vater (Non-Injectable)<br>JSE ONLY<br>nout (exempt waste) | OTHER EXEMPT WASTES (type and generation process of the waste)  |
| AAS Plant Waste DRILLING DRILLING  | COMPLETION   | PRODUCTION GATHERING LINES  |
|  | NON-EXEMPT E&P Waste/Service Identification and<br>e analysed and be below the threshold limits for toxicity<br>please select  | Amount<br>(TCLP), Ignitability, Corrosivity and Reactivity.<br>ct from <b>Non-Exempt Waste List</b> on back |
| UANTITY  | B - BARRELS  | 2 CY-YARDS E-EACH   |
| ereby certify that the above listed material(s), is (are) not a haza   | rdous waste as defined by 40 CFR Part 261 or any applic  | able state law. That each waste has been properly described, classified a                                   |
| MSDS Information   | the appropriate items as provided)  RCRA Hazardous Waste Analysis  4.70.70   | Other (Provide Description Below)   |
| (PRINT) AUTHORIZED AGENTS SIGNATURE  | <u>1.70.70</u><br>DATE   | SIGNATURE   |
| Phone No.  | TRANSPORTER         S1/1/15/1/2       Driver's Name         Print Name         Phone No.         Truck No.   | · Tall Bra 2-<br>6056 [wH] 4089   |
| hereby certify that the above named material(s) was/were picked  | los p  | DELIVERY DATE DRIVER'S SIGNATURE  |
| SHIPMENT DATE  | DISDOCAL FACILITY  | DECENVING ADEA  |
| SHIPMENT DATE DRIVER'S SIGN<br>TRUCK TIME STAMP<br>N:OUT:  | DISPOSAL FACILITY  | RECEIVING AREA<br>Name/No.  |
| SHIPMENT DATE DRIVER'S SIGN<br>TRUCK TIME STAMP<br>N:  | Phone No.  | city in   |
| SHIPMENT DATE     DRIVER'S SIGN       TRUCK TIME STAMP     OUT:       Site Name/     OUT:       remit No.     Red Bluff Facility/ STF-065       So53 US Highway 285, Orla, TX 79770     SORM READINGS TAKEN? (Circle One)       NORM READINGS TAKEN? (Circle One)     YES  | Phone No.<br>NO If YES, was n<br>Conductivity  | Name/No.       432-448-4239       reading > 50 micro roentgens? (circle one)       YES                      |
| SHIPMENT DATE DRIVER'S SIGN TRUCK TIME STAMP OUT: Site Name/ Vermit No. Address Red Bluff Facility/ STF-065 S053 US Highway 285, Orla, TX 79770 NORM READINGS TAKEN? (Circle One) YES  | Phone No.  | Name/No.       432-448-4239       reading > 50 micro roentgens? (circle one)       YES                      |
| SHIPMENT DATE DRIVER'S SIGN TRUCK TIME STAMP N:  | Phone No.<br>NO If YES, was n<br>Conductivity<br>(mmhos/cm   | Name/No.       432-448-4239       reading > 50 micro roentgens? (circle one)       YES                      |

| RBOR  | TEXAS NON-HAZARDOUS OILFIEL<br>(PLEASE PRINT   | ) *REQUIR                            | FEST Company Man Contact Information<br>ED INFORMATION* Name Contact Information<br>Phone No. 7410, 390, 1867                             |
|---|--|--------------------------------------|---|
|   | GENERATO   |                                      | NO. 10002E  |
| Operator No.  |  | Permit/RRC No.                       | 198935  |
| Operators Name Monte, de Rese.  | -11(4)   | Lease/Well<br>Name & No.             | Ton la Russai St Ton Toky   |
| Address   |  | County                               | I ddy   |
|   |  | API No.                              | 30= 015 - 95969   |
| City, State, Zip<br>Phone No. 740, 390, 1867 19   | 23 Jal 11123   | Rig Name & No.                       | The I I am the second   |
|   | Service Identification and Amount (place vo  | AFE/PO No.                           | to type in barrels or cubic vards)  |
| Oil Based Muds NON  | I-INJECTABLE WATERS  | iume next to was                     | DTHER EXEMPT WASTES (type and generation process of the waste)  |
|   | hout Water (Non-Injectable)<br>pletion Fluid/Flow back (Non-Injectable)  |                                      |   |
|   | duced Water (Non-Injectable)<br>hering Line Water/Waste (Non-Injectable)   |                                      |   |
| Tank Bottoms  | RNAL USE ONLY  |                                      |   |
| Gas Plant Waste   | k Washout (exempt waste)   |                                      | Belly Dunp  |
| WASTE GENERATION PROCESS:   |  | F                                    | PRODUCTION GATHERING LINES  |
|   | NON-EXEMPT E&P Waste/Service Ident   |                                      |   |
| Ail non-exempt E&P waste<br>Non-Exempt Other  | must be analysed and be below the threshold limi   |                                      | , Ignitability, Corrosivity and Reactivity.<br>Non-Exempt Waste List on back  |
|   |  | preuse sereer from                   |   |
| QUANTITY  | B - BARRELS  |                                      | Z -Y-YARDS E-EACH   |
| I hereby certify that the above listed material(s), is (are) not<br>packaged, and is in proper condition for transportation according |  | or any applicable sta                | te law. That each waste has been properly described, classified and   |
|   |  | perations and are no                 | t mixed with non-exempt waste (R360 Accepts certifications on a per   |
| load basis only)  |  |                                      | hand a business with the bad in DCDA approximations 40 CER  |
|   |  |                                      | e hazardous by characteristics established in RCRA regulations, 40 CFR<br>ed. The following documentation demonstrating the waste as non- |
|   | (Check the appropriate items as provided)  |                                      | he (Denide Denedation Delay)  |
| MSDS Information  | RCRA Hazardous Waste Analysis  |                                      | her (Provide Description Below)   |
| Tal Reduces   | 4.7  | 0.70                                 |   |
| (PRINT) AUTHORIZED AGENTS SIGNATURE   | DA   | TE                                   | SIGNATURE   |
| 1 111   | TRANSPORT  | ER                                   |   |
| Name Day Trides   | 2 APTSLET 11   | Priver's Name                        | Ischel Par  |
| Address   |  | Print Name                           |   |
| 1201 Kench  |  | hone No.                             | table to use shows  |
| Phone No.   | and the second | ruck No.                             | 0066 / WHIP 4089  |
| I hereby certify that the above named material(s) was/were  | Picked up at the Generator's site listed above and   | delivered without in                 | cident to the disposal facility listed below.   |
|   | VER'S SIGNATURE  | DELIVERY DA                          | DRIVER'S SIGNATURE  |
| TRUCK TIME STAMP  | DISPOSAL FAC   | ILITY                                | RECEIVING AREA  |
| IN: OUT:  |  | L                                    | Name/No. Salsi 15   |
| Site Name/<br>Permit No. Red Bluff Facility/ STF-065  | P  | hone No. 43                          | 2-448-4239  |
| Address 5053 US Highway 285, Orla, TX 79770   |  |                                      | 0   |
| NORM READINGS TAKEN? (Circle One)<br>Chloride   |  | If YES, was reading ><br>onductivity | 50 micro roentgens? (circle one) YES NO   |
| Chemical Analysis (Mg/I)  |  | (mmhos/cm)                           | pH  |
|   | TANK BOTTO   | MS                                   |   |
| Feet Ist Gauge  | Inches   | DCR.M                                | /BBLS Received BS&W (%)   |
| 2nd Gauge   |  |                                      | Free Water  |
| Received  |  |                                      | Total Received  |
| I hereby certify that the above load material has been (cir   | rcle one): ACCEPTED DENIED   | If denied, why?                      | -A-E  |
| To196 (1997)  | 1/20/20 700  | P. Vice                              | ( )   |
| NAME (PRINT)  | DATE   |                                      | SIGNATURE   |
|   |  |                                      |   |
| White   | ORIGINAL Blue - TRANSPOR   | TER Valle                            | w - GENERATOR Version 1   |
| write   |  | Teno                                 | w - GENERATOR Version 1   |

### **ATTACHMENT 5**

Client Name: Matador Production Company Site Name: Tony La Russa State Com 201H/202H NM OCD Tracking Number: NRM2008758101 Project #: 20E-00239-006 Lab Report: 2003982

|           | Table 2. Characterization Sample Field Screening and Laboratory Data - Depth to Groundwater 50 < 100 ft |                |                                     |   |                                    |                        |                |                                  |                                |                                   |             |                                       |           |  |
|-----------|---|----------------|-------------------------------------|---|------------------------------------|------------------------|----------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|-----------|--|
|           | Sample Description  | on             | F                                   | ield Screenir                                 | ng                                 | Petroleum Hydrocarbons |                |                                  |                                |                                   |             |                                       | Inorganic |  |
|           |   |                |                                     |   |                                    | Vol                    | Volatile Extra |                                  |                                |                                   |             | xtractable                            |           |  |
| Sample ID | Depth (ft)  | Sample Date    | Volatile Organic<br>Compounds (PID) | Extractable Organic<br>Compounds (Petro Flag) | Inorganics (Quantab -<br>High/Low) | 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  |  |
|           |   |                | (ppm)                               | (ppm)   | (+/-)                              | (mg/kg)                | (mg/kg)        | (mg/kg)                          | (mg/kg)                        | (mg/kg)                           | (mg/kg)     | (mg/kg)                               | (mg/kg)   |  |
| BH 20-01  | 0   | March 19, 2020 | -                                   | -   | 8,265                              | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| BH 20-01  | 0.5   | March 19, 2020 | -                                   | -   | 535                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | 250       |  |
| BH 20-01  | 1   | March 19, 2020 | -                                   | -   | 419                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| BH 20-02  | 0   | March 19, 2020 | -                                   | -   | 9,639                              | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| BH 20-02  | 0.5   | March 19, 2020 | -                                   | -   | 584                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| BH 20-02  | 1   | March 19, 2020 | -                                   | -   | 554                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     |           |  |
| BH 20-03  | 0   | March 19, 2020 | -                                   | -   | 10,801                             | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| BH 20-03  | 0.5   | March 19, 2020 | -                                   | -   | 435                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| BH 20-03  | 1   | March 19, 2020 | -                                   | -   | 290                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| BH 20-04  | 0   | March 19, 2020 | -                                   | -   | 15,034                             | -                      | -              | -                                | -                              | -                                 | -           | -                                     | 16,000    |  |
| BH 20-04  | 0.5   | March 19, 2020 | -                                   | -   | 2,488                              | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| BH 20-04  | 1   | March 19, 2020 | -                                   | -   | 1,195                              | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| BH 20-04  | 2   | March 19, 2020 | -                                   | -   | 724                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| BH 20-04  | 3   | March 19, 2020 | -                                   | -   | 545                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | 100       |  |
| SS 20-01  | 0   | March 19, 2020 | -                                   | -   | 1,242                              | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| SS 20-01  | 0.5   | March 19, 2020 | -                                   | -   | 558                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| SS 20-02  | 0   | March 19, 2020 | -                                   | -   | 125                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| SS 20-02  | 0.5   | March 19, 2020 | -                                   | -   | 186                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| SS 20-03  | 0   | March 19, 2020 | -                                   | -   | 212                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| SS 20-03  | 0.5   | March 19, 2020 | -                                   | -   | 353                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| SS 20-04  | 0   | March 19, 2020 | -                                   | -   | 95                                 | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |
| SS 20-04  | 0.5   | March 19, 2020 | -                                   | -   | 414                                | -                      | -              | -                                | -                              | -                                 | -           | -                                     | -         |  |

"-" Not assessed/analyzed

Bold and shaded indicates exceedance outside of applied action level



.

**Client Name: Matador Production Company** Site Name: Tony La Russa State Com #201H/202H NM OCD Incident Tracking #: NRM2008758101 Project #: 20E-00239-006 Lab Report: 2004997/2004999/2012234

|           |                    | Table 3. Confirm | natory Sam                          | pling Field                                   | Screen and                          | d Laborato | ry Data: De          | pth-to-Gro                       | undwater                       | < 50 feet                         |             |                                       |           |
|-----------|--------------------|------------------|-------------------------------------|---|-------------------------------------|------------|----------------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|-----------|
|           | Sample Description | on               | Fi                                  | ield Screenir                                 | ng                                  |            |                      | Petrol                           | eum Hydroc                     | arbons                            |             |                                       | Inorganic |
|           |                    |                  |                                     | g)  |                                     | Vol        | Volatile Extractable |                                  |                                |                                   |             |                                       |           |
| Sample ID | Depth (ft)         | Sample Date      | Volatile Organic<br>Compounds (PID) | Extractable Organic<br>Compounds (Petro Flag) | Inorganics<br>(Electroconductivity) | 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  |
|           |                    |                  | (ppm)                               | (ppm)   | (ppm)                               | (mg/kg)    | (mg/kg)              | (mg/kg)                          | (mg/kg)                        | (mg/kg)                           | (mg/kg)     | (mg/kg)                               | (mg/kg)   |
| BS 20-01  | 0.5                | April 21, 2020   | -                                   | -   | 921                                 | <0.024     | <0.219               | <4.9                             | <9.4                           | <47                               | <14.3       | <61.3                                 | 200       |
| BS 20-02  | 0.5                | April 21, 2020   | -                                   | -   | 856                                 | <0.025     | <0.221               | <4.9                             | <9.7                           | <48                               | <14.6       | <62.6                                 | 790       |
| BS 20-02  | 0.5                | December 2, 2020 | -                                   | -   | -                                   | <0.025     | <0.224               | <5.0                             | <9.9                           | <49                               | <14.9       | <63.9                                 | <60       |
| BS 20-03  | 0.5                | April 21, 2020   | -                                   | -   | 357                                 | <0.025     | <0.221               | <4.9                             | <9.7                           | <48                               | <14.6       | <62.6                                 | 230       |
| BS 20-04  | 0.5                | April 21, 2020   | -                                   | -   | <0                                  | <0.025     | <0.221               | <4.9                             | <9.5                           | <48                               | <14.4       | <62.4                                 | 170       |
| BS 20-05  | 0.5                | 43942            | -                                   | -   | <0                                  | <0.024     | <0.213               | <4.7                             | <9.6                           | <48                               | <14.3       | <62.3                                 | <60       |
| BS 20-06  | 2                  | 43942            | -                                   | -   | 175                                 | <0.024     | <0.217               | <4.8                             | <9.5                           | <47                               | <14.3       | <61.3                                 | 140       |
| BS 20-07  | 2                  | 43942            | -                                   | -   | <0                                  | <0.024     | <0.213               | <4.7                             | <9.8                           | <49                               | <14.5       | <63.5                                 | 63        |
| BS 20-08  | 2                  | 43942            | -                                   | -   | 52                                  | <0.023     | <0.207               | <4.6                             | <9.7                           | <48                               | <14.3       | <62.3                                 | 100       |
| WS 20-01  | 0-0.5              | April 21, 2020   | -                                   | -   | 905                                 | <0.025     | <0.222               | <4.9                             | <9.5                           | <47                               | <14.4       | <61.4                                 | 380       |
| WS 20-02  | 0-0.5              | April 21, 2020   | -                                   | -   | 683                                 | <0.024     | <0.215               | <4.8                             | <9.3                           | <47                               | <14.1       | <61.1                                 | 330       |
| WS 20-03  | 0-0.5              | April 21, 2020   | -                                   | -   | 969                                 | <0.024     | <0.219               | <4.9                             | <9.4                           | <47                               | <14.3       | <61.3                                 | 250       |
| WS 20-04  | 0-0.5              | 43942            | -                                   | -   | <0                                  | <0.024     | <0.216               | <4.8                             | <9.8                           | <49                               | <14.6       | <63.6                                 | <60       |
| WS 20-05  | 0-0.5              | 43942            | -                                   | -   | 387                                 | <0.024     | <0.217               | <4.8                             | <9.6                           | <48                               | <14.4       | <62.4                                 | 260       |
| WS 20-06  | 0-2                | 43942            | -                                   | -   | 335                                 | <0.023     | <0.207               | <4.6                             | <9.6                           | <48                               | <14.2       | <62.2                                 | 220       |
| WS 20-07  | 0-2                | 43942            | -                                   | -   | 22                                  | <0.023     | <0.208               | <4.6                             | <10                            | <50                               | <14.6       | <64.6                                 | 82        |
| WS 20-08  | 0-2                | 43942            | -                                   | -   | 8                                   | <0.025     | <0.224               | <5.0                             | <9.3                           | <47                               | <14.3       | <61.3                                 | 120       |
| WS 20-09  | 0-0.5              | 43942            | -                                   | -   | <0                                  | <0.025     | <0.221               | <4.9                             | <9.9                           | <50                               | <14.8       | <64.8                                 | 250       |
| WS 20-10  | 0-0.5              | April 21, 2020   | -                                   | -   | <0                                  | <0.025     | <0.224               | <5.0                             | <9.4                           | <47                               | <14.4       | <61.4                                 | 1,800     |
| WS 20-10  | 0-0.5              | December 2, 2020 |                                     | -   | -                                   | <0.025     | <0.221               | <4.9                             | <9.8                           | <49                               | <14.7       | <63.7                                 | <60       |

"-" - Not assessed/analyzed

Green shading indicates samples from off-lease. Bold and grey shaded indicates exceedance outside of, or near, NM OCD Closure Criteria Bold and green-shaded indicates recollection of sample previously exceeding NM OCD Closure Criteria

.

## **ATTACHMENT 6**

#### **Natalie Gordon**

| From:    | Dhugal Hanton <vertexresourcegroupusa@gmail.com></vertexresourcegroupusa@gmail.com> |
|----------|---|
| Sent:    | Thursday, April 16, 2020 4:01 PM  |
| То:      | Natalie Gordon  |
| Subject: | Fwd: NRM2008758101: Tony La Russa State Com 201H/202H - 48-hr Notification of       |
| -        | Confirmation Sampling   |

----- Forwarded message ------

From: Dhugal Hanton <<u>vertexresourcegroupusa@gmail.com</u>>

Date: Thu, Apr 16, 2020 at 4:00 PM

Subject: NRM2008758101: Tony La Russa State Com 201H/202H - 48-hr Notification of Confirmation Sampling To: Bratcher, Mike, EMNRD <<u>Mike.Bratcher@state.nm.us</u>>, Venegas, Victoria, EMNRD <<u>Victoria.Venegas@state.nm.us</u>>, Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>, <<u>rmann@slo.state.nm.us</u>>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled remediation field activities and confirmatory sampling to be conducted at Tony La Russa for the produced water release that occurred on March 18, 2020, incident tracking # NRM2008758101.

This work will be completed on behalf of Matador Production Company.

On Monday, April 20, 2020 at approximately 8:00 a.m., Monica Peppin of Vertex will be onsite to guide remediation activities. On Tuesday, April 21, 2020 starting at approximately 8:00 a.m. she will begin collecting confirmatory sampling as the remediation activities finish up. Monica can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions or concerns regarding this notification, please give me a call at 505-506-0040.

Thank you, Natalie

**Natalie Gordon** Project Manager

Vertex Resource Group Ltd. 213 S. Mesa Street Carlsbad, NM 88220

P 575.725.5001 ext 709 C 505.506.0040 F

www.vertex.ca

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#### **Natalie Gordon**

| From:    | Dhugal Hanton <vertexresourcegroupusa@gmail.com></vertexresourcegroupusa@gmail.com> |
|----------|---|
| Sent:    | Friday, November 27, 2020 3:07 PM   |
| То:      | Natalie Gordon  |
| Subject: | Fwd: NRM2008758101: Tony La Russa State Com 201H/202H - 48-hr Notification of       |
|          | Confirmatory Sampling   |

------ Forwarded message -------From: **Dhugal Hanton** <<u>vertexresourcegroupusa@gmail.com</u>> Date: Fri, Nov 27, 2020 at 3:01 PM Subject: NRM2008758101: Tony La Russa State Com 201H/202H - 48-hr Notification of Confirmatory Sampling To: Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>>, <<u>spills@slo.state.nm.us</u>>, <<u>rmann@slo.state.nm.us</u>>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled additional remediation field activities and confirmatory sampling to be conducted at Tony La Russa for the produced water release that occurred on March 18, 2020, incident tracking # NRM2008758101.

This work will be completed on behalf of Matador Production Company.

On Wednesday, December 2, 2020 at approximately 8:00 a.m., Monica Peppin of Vertex will be onsite to guide additional remediation activities and conduct additional confirmatory sampling. She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions or concerns regarding this notification, please give me a call at 505-506-0040.

Thank you, Natalie

Natalie Gordon Project Manager

Vertex Resource Group Ltd. 213 S. Mesa Street Carlsbad, NM 88220

P 575.725.5001 ext 709 C 505.506.0040 F

#### www.vertex.ca

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## **ATTACHMENT 7**



March 30, 2020 Natalie Gordon Vertex Resource Group Ltd. 213 S. Mesa St 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: Tony La Russa State Com 201H

OrderNo.: 2003982

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/21/2020 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

| Hall Enviro                 | nmental Analysis Lab                                       | oratory, Inc | •   |          |                   | Ι     | Analytical Repor<br>Lab Order: 200398<br>Date Reported: 3/3 | 2                                |
|-----------------------------|--|--------------|-----|----------|-------------------|-------|---|----------------------------------|
| CLIENT:<br>Project:         | Vertex Resource Group Ltd.<br>Tony La Russa State Com 201H | [            |     |          | L                 | ab C  | <b>)rder:</b> 2003  | 3982                             |
| Lab ID:<br>Client Sample ID | 2003982-001<br>: BH20-01 0.5'                              |              | C   | Collecti | on Date<br>Matrix |       | 19/2020 12:20:00<br>DIL                                     | PM                               |
| Analyses                    |  | Result       | RL  | Qual     | Units             | DF    | Date Analyzed   | Batch ID                         |
| EPA METHOD 30<br>Chloride   | 00.0: ANIONS   | 250          | 60  |          | mg/Kg             | 20    |   | nalyst: <b>JMT</b><br>1 PM 51338 |
| Lab ID:                     | 2003982-003  |              | C   | ollecti  | on Date           | : 3/1 | 19/2020 1:00:00 H   | РМ                               |
| Client Sample ID            | <b>:</b> BH20-04 0'  |              |     |          | Matrix            | : SC  | DIL   |                                  |
| Analyses                    |  | Result       | RL  | Qual     | Units             | DF    | Date Analyzed   | Batch ID                         |
| EPA METHOD 30<br>Chloride   | 00.0: ANIONS   | 16000        | 600 |          | mg/Kg             | 20    | Aı<br>0 3/27/2020 4:19:33                                   | nalyst: <b>JMT</b><br>3 PM 51338 |
| Lab ID:                     | 2003982-004  |              | C   | ollecti  | on Date           | : 3/1 | 19/2020 1:20:00 I   | РМ                               |
| Client Sample ID            | : BH20-04 3'   |              |     |          | Matrix            | : SC  | DIL   |                                  |
| Analyses                    |  | Result       | RL  | Qual     | Units             | DF    | Date Analyzed   | Batch ID                         |
| EPA METHOD 30<br>Chloride   | 00.0: ANIONS   | 100          | 60  |          | mg/Kg             | 20    |   | nalyst: <b>JMT</b><br>3 PM 51338 |

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 2

.

|                      | x Resource Group Ltd.<br>La Russa State Com 201H |                           |                |               |  |  |
|----------------------|--|---------------------------|----------------|---------------|--|--|
| Sample ID: MB-51338  | 300.0: Anions                                    |                           |                |               |  |  |
| Client ID: PBS       | Batch ID: 51338                                  | RunNo: 67593              |                |               |  |  |
| Prep Date: 3/26/2020 | Analysis Date: 3/26/2020                         | SeqNo: 2334120            | Units: mg/Kg   |               |  |  |
| Analyte              | Result PQL SPK value                             | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |  |  |
| Chloride             | ND 1.5   |                           |                |               |  |  |
| Sample ID: LCS-51338 | SampType: Ics                                    | TestCode: EPA Method      | 300.0: Anions  |               |  |  |
| Client ID: LCSS      | Batch ID: 51338                                  | RunNo: 67593              |                |               |  |  |
| Prep Date: 3/26/2020 | Analysis Date: 3/26/2020                         | SeqNo: 2334121            | Units: mg/Kg   |               |  |  |
| Analyte              | Result PQL SPK value                             | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |  |  |
| Chloride             | 14 1.5 15.00                                     | 0 92.5 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 range due to dilution or matrix

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

Page 2 of 2

2003982

30-Mar-20

WO#:

| ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY  | TEL: 505-34      | mental Analysis Lab<br>4901 Haw<br>Albuquerque, NM<br>5-3975 FAX: 505-34<br>ww.hallenvironmen | kins NE<br>187109 <b>Sa</b><br>15-4107 | Sample Log-In Check List      |           |  |  |  |
|--|------------------|---|--|-------------------------------|-----------|--|--|--|
| Client Name: VERTEX CARLSBAD   | Work Order Nu    | mber: 2003982   |  | RcptNo: 1                     |           |  |  |  |
|  | 3/21/2020 8:06:0 | 0 AM  | rifezmin literia                       | ম                             |           |  |  |  |
|  | /21/2020 10:23:  | 41 AM   | Nozmine Worder                         | ۵                             |           |  |  |  |
| Reviewed By: ICO 3   | 23/20            |   | ų v                                    |                               |           |  |  |  |
| Chain of Custody   |                  |   |  |                               |           |  |  |  |
| <ol> <li>Is Chain of Custody sufficiently complete?</li> </ol>   |                  | Yes 🗸   | No 🗍                                   | Not Present                   |           |  |  |  |
| 2. How was the sample delivered?   |                  | Courier   |  |                               |           |  |  |  |
| Log In   |                  |   |  |                               |           |  |  |  |
| 3. Was an attempt made to cool the samples?  |                  | Yes 🔽   | No 🗌                                   | NA 🗌                          |           |  |  |  |
| <ol> <li>Were all samples received at a temperature of &gt;</li> </ol>                                     | >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) properly pre   | served?          | Yes 🔽   | No 🗍                                   |                               |           |  |  |  |
| 8. Was preservative added to bottles?  |                  | Yes   | No 🗹                                   | NA 🗌                          |           |  |  |  |
| 9. Received at least 1 vial with headspace <1/4" for   |                  | Yes   | No. [7]                                | _                             |           |  |  |  |
| 10. Were any sample containers received broken?  |                  | Yes   | No 🛄                                   | NA 🗹                          |           |  |  |  |
|  |                  |   | No 🗹                                   | # of preserved                |           |  |  |  |
| <ol> <li>Does paperwork match bottle labels?<br/>(Note discrepancies on chain of custody)</li> </ol>       |                  | Yes 🗹   | No 🗌                                   | bottles checked<br>for pH:    |           |  |  |  |
| 12. Are matrices correctly identified on Chain of Custo  | ody?             | Yes 🗹   | No 🗌                                   | (<2 or >12 unles<br>Adjusted? | ss noted) |  |  |  |
| 13. Is it clear what analyses were requested?  |                  | Yes 🗹   |  |                               | ——        |  |  |  |
| <ol> <li>Were all holding times able to be met?<br/>(If no, notify customer for authorization.)</li> </ol> |                  | Yes 🗹   |  | Checked by: DAD 3/z           | 3/20      |  |  |  |
| Special Handling (if applicable)   |                  |   |  |                               |           |  |  |  |
| 15. Was client notified of all discrepancies with this or  | der?             | Yes   | No 🗌                                   | NA 🗹                          |           |  |  |  |
| Person Notified:   | Date             |   |  |                               |           |  |  |  |
| By Whom:   | Via:             | l<br>∏ eMail ∏ Ph   |  |                               |           |  |  |  |
| Regarding:   |                  |   | none 🗌 Fax [                           | In Person                     |           |  |  |  |
| Client Instructions:   |                  |   |  |                               |           |  |  |  |
| 16. Additional remarks:  |                  |   |  |                               |           |  |  |  |
| 17. <u>Cooler Information</u><br>Cooler No Temp °C Condition Seal Inte                                     | ict   Seal No    |   |  |                               |           |  |  |  |
| 1 0.1 Good<br>2 0.5 Good   |                  | Seal Date S   | Signed By                              |                               |           |  |  |  |
|  |                  | ·   |  |                               |           |  |  |  |

Page 1 of 1

Received 0 0 0 1245/2022 11:28:01 AM

|  | 1:28:01 AM  | $\square$ |  |  | Page 83 of 134   |
|--|---|-----------|--|--|--|
| HALL ENVIRONMENTAL<br>ANALYSIS LABORATORY<br>www.hallenvironmental.com<br>kins NE - Albuquerque, NM 87109<br>345-3975 Fax 505-345-4107<br>Analysis Request | RCRA 8 Metals<br>CI) 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)<br>Total Coliform (Present/Absent)  |           |  |  | 232 Time Remarks: C.C.: Natalie Grodon<br>Date Time<br>UN OSO Matador<br>This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.  |
| HALL<br>ANAL<br>www.hall<br>4901 Hawkins NE -<br>Tel. 505-345-3975   | EDB (Method 504.1)<br>2MI20728 or 82705IMS  |           | <i>v</i> i   |  |  |
| 01 Ha  | 8081 Pesticides/8082 PCB's  |           | ₩  |  | in sub-  |
|  | ВТЕХ / МТВЕ / ТМВ's (8021)<br>ТРН:8015D(GRO / DRO / МRO)  |           |  |  | Remarks: C<br>Madador<br>possibility. Any sub-cont   |
| 5 Doul<br>Ish<br>a State Contibult   | 100 den<br>100 den<br>100 - 101 - 01<br>100 - 01 - 05 (°C)<br>100 - 01 - 05 (°C)  |           | 100,<br>200,<br>200,<br>200,<br>200,<br>200,<br>200,<br>200, |  | US 3/2 (UW) Re<br>Date Time<br>3/21/20 (BOV N<br>ories. This serves as notice of this pos  |
|  | uger:<br>مالی<br>کرلار<br>کر<br>آ<br>آ<br>آ<br>آ<br>آ<br>آ<br>آ   | -15       |  |  | Mura:<br>Via:<br>COUMIC  |
| Turn-Around Time: ∠<br>Broject Name:<br>Tony La Russ<br>Project #:<br>Project #:   | Project Manager:<br>いったのし、<br>Sampler: ハゴア<br>Sampler: ハゴア<br>On Ice: Y Yes<br>On Ice: Y Yes<br>Cooler Temp(moducting cr):<br>Cooler Temp(moducting cr):<br>Type and # Type   | 407       |  |  | Received by:<br>Received by:   |
| Client: Vurtux<br>Mailing Address: On デリレ  | Iail or Fax#:         /QC Package:         /QC Package:         Standard          □ Level 4 (Fult Validation)         creditation:          □ Az Compliance         NELAC          □ Other         EDD (Type)          ■         te          Time         Matrix          Sample Name |           |  |  | Date:     Time:     Relinquished by:       7/b     1/200     0.000       Date:     11me:     Relinquished by:       0.000     0.000     0.000       0.000     0.000     0.000       1f necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. |



April 29, 2020

Natalie Gordon Vertex Resource Group Ltd. 213 S. Mesa St Carlsbad, NM 88220 TEL: (505) 506-0040 FAX

RE: Tony La Russa State Com 201H Pasture

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

OrderNo.: 2004997

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 11 sample(s) on 4/23/2020 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 Resource Group Ltd.

2004997-001

Analytical Report
Lab Order 2004997

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pasture

Date Reported: 4/29/2020 Client Sample ID: BS20-04 0.5' Collection Date: 4/21/2020 11:45:00 AM

**Received Date:** 4/23/2020 9:40:00 AM

| Analyses                               | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA  | NICS   |          |      |       |    | Analyst: BRM          |
| Diesel Range Organics (DRO)            | ND     | 9.5      |      | mg/Kg | 1  | 4/24/2020 5:07:33 PM  |
| Motor Oil Range Organics (MRO)         | ND     | 48       |      | mg/Kg | 1  | 4/24/2020 5:07:33 PM  |
| Surr: DNOP                             | 37.4   | 55.1-146 | S    | %Rec  | 1  | 4/24/2020 5:07:33 PM  |
| EPA METHOD 300.0: ANIONS               |        |          |      |       |    | Analyst: JMT          |
| Chloride                               | 170    | 60       |      | mg/Kg | 20 | 4/26/2020 10:46:33 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST |        |          |      |       |    | Analyst: JMR          |
| Benzene                                | ND     | 0.025    |      | mg/Kg | 1  | 4/27/2020 2:19:13 PM  |
| Toluene                                | ND     | 0.049    |      | mg/Kg | 1  | 4/27/2020 2:19:13 PM  |
| Ethylbenzene                           | ND     | 0.049    |      | mg/Kg | 1  | 4/27/2020 2:19:13 PM  |
| Xylenes, Total                         | ND     | 0.098    |      | mg/Kg | 1  | 4/27/2020 2:19:13 PM  |
| Surr: 1,2-Dichloroethane-d4            | 81.0   | 70-130   |      | %Rec  | 1  | 4/27/2020 2:19:13 PM  |
| Surr: 4-Bromofluorobenzene             | 99.2   | 70-130   |      | %Rec  | 1  | 4/27/2020 2:19:13 PM  |
| Surr: Dibromofluoromethane             | 88.4   | 70-130   |      | %Rec  | 1  | 4/27/2020 2:19:13 PM  |
| Surr: Toluene-d8                       | 95.6   | 70-130   |      | %Rec  | 1  | 4/27/2020 2:19:13 PM  |
| EPA METHOD 8015D MOD: GASOLINE RANGE   |        |          |      |       |    | Analyst: JMR          |
| Gasoline Range Organics (GRO)          | ND     | 4.9      |      | mg/Kg | 1  | 4/27/2020 2:19:13 PM  |
| Surr: BFB                              | 98.5   | 70-130   |      | %Rec  | 1  | 4/27/2020 2:19:13 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
- 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

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

Page 1 of 17

**Analytical Report** Lab Order 2004997

Date Reported: 4/29/2020

Analyst: BRM

Analyst: JMT

Analyst: JMR

4/27/2020 3:44:57 PM

4/27/2020 3:44:57 PM

4/27/2020 3:44:57 PM

4/27/2020 3:44:57 PM

Analyst: JMR

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS20-05 0.5' **Project:** Tony La Russa State Com 201H Pasture Collection Date: 4/21/2020 11:55:00 AM Lab ID: 2004997-002 Matrix: SOIL Received Date: 4/23/2020 9:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 4/27/2020 3:42:04 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/27/2020 3:42:04 PM Surr: DNOP 78.5 55.1-146 %Rec 1 4/27/2020 3:42:04 PM **EPA METHOD 300.0: ANIONS** Chloride ND 4/26/2020 11:23:32 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Benzene ND 0.024 mg/Kg 4/27/2020 3:44:57 PM 1 Toluene ND 0.047 mg/Kg 4/27/2020 3:44:57 PM 1 Ethvlbenzene ND 0.047 mg/Kg 1 4/27/2020 3:44:57 PM Xylenes, Total ND 0.095 mg/Kg 1 4/27/2020 3:44:57 PM Surr: 1.2-Dichloroethane-d4 81.4 70-130 %Rec 1 4/27/2020 3:44:57 PM Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 4/27/2020 3:44:57 PM

87.5

97.6

70-130

70-130

70-130

47

%Rec

%Rec

mg/Kg

%Rec

1

1

1

1

#### Surr: Toluene-d8 94.1 **EPA METHOD 8015D MOD: GASOLINE RANGE** Gasoline Range Organics (GRO) ND

Surr: Dibromofluoromethane

Surr: BFB

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 range due to dilution or matrix

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

Page 2 of 17

**Analytical Report** Lab Order 2004997

Date Reported: 4/29/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS20-06 2' **Project:** Tony La Russa State Com 201H Pasture 2004997-003 Lab ID: Matrix: SOIL Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIFSEL RANGE ORGANICS Dies Moto Sι EPA N Chlo EPA N Benz Tolu Ethy Xylei Sι Sι Sι

#### Sι EPA N Gase

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 range due to dilution or matrix S

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

Page 3 of 17

Collection Date: 4/21/2020 12:05:00 PM Received Date: 4/23/2020 9:40:00 AM

| ICS  |  |   |   |  | Analyst: BRM   |
|------|--|---|---|--|--|
| ND   | 9.5  |   | mg/Kg   | 1  | 4/24/2020 5:55:43 PM   |
| ND   | 47   |   | mg/Kg   | 1  | 4/24/2020 5:55:43 PM   |
| 25.4 | 55.1-146   | S   | %Rec  | 1  | 4/24/2020 5:55:43 PM   |
|      |  |   |   |  | Analyst: JMT   |
| 140  | 60   |   | mg/Kg   | 20   | 4/27/2020 12:14:51 AM  |
|      |  |   |   |  | Analyst: JMR   |
| ND   | 0.024  |   | mg/Kg   | 1  | 4/27/2020 5:10:26 PM   |
| ND   | 0.048  |   | mg/Kg   | 1  | 4/27/2020 5:10:26 PM   |
| ND   | 0.048  |   | mg/Kg   | 1  | 4/27/2020 5:10:26 PM   |
| ND   | 0.097  |   | mg/Kg   | 1  | 4/27/2020 5:10:26 PM   |
| 78.0 | 70-130   |   | %Rec  | 1  | 4/27/2020 5:10:26 PM   |
| 100  | 70-130   |   | %Rec  | 1  | 4/27/2020 5:10:26 PM   |
| 88.9 | 70-130   |   | %Rec  | 1  | 4/27/2020 5:10:26 PM   |
| 94.2 | 70-130   |   | %Rec  | 1  | 4/27/2020 5:10:26 PM   |
|      |  |   |   |  | Analyst: JMR   |
| ND   | 4.8  |   | mg/Kg   | 1  | 4/27/2020 5:10:26 PM   |
| 98.6 | 70-130   |   | %Rec  | 1  | 4/27/2020 5:10:26 PM   |
|      | ND<br>25.4<br>140<br>ND<br>ND<br>ND<br>78.0<br>100<br>88.9<br>94.2<br>ND | ND         9.5           ND         47           25.4         55.1-146           140         60           ND         0.024           ND         0.048           ND         0.048           ND         0.097           78.0         70-130           100         70-130           88.9         70-130           94.2         70-130           ND         4.8 | ND         9.5           ND         47           25.4         55.1-146         S           140         60           ND         0.024           ND         0.048           ND         0.048           ND         0.097           78.0         70-130           100         70-130           88.9         70-130           94.2         70-130           ND         4.8 | ND         9.5         mg/Kg           ND         47         mg/Kg           25.4         55.1-146         S         %Rec           140         60         mg/Kg           ND         0.024         mg/Kg           ND         0.048         mg/Kg           ND         0.048         mg/Kg           ND         0.048         mg/Kg           ND         0.097         mg/Kg           ND         70-130         %Rec           100         70-130         %Rec           94.2         70-130         %Rec           ND         4.8         mg/Kg | ND         9.5         mg/Kg         1           ND         47         mg/Kg         1           25.4         55.1-146         S         %Rec         1           140         60         mg/Kg         20           ND         0.024         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.097         mg/Kg         1           ND         0.097         mg/Kg         1           100         70-130         %Rec         1           94.2         70-130         %Rec         1           ND         4.8         mg/Kg         1 |

Lab ID:

CLIENT: Vertex Resource Group Ltd.

2004997-004

Analytical Report Lab Order 2004997

Date Reported: 4/29/2020

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pasture

Client Sample ID: BS20-07 2' Collection Date: 4/21/2020 12:15:00 PM Received Date: 4/23/2020 9:40:00 AM

| 2001/// 001                    |             |          |          |    |                       |  |  |  |
|--------------------------------|-------------|----------|----------|----|-----------------------|--|--|--|
| Analyses                       | Result      | RL Qu    | al Units | DF | Date Analyzed         |  |  |  |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS |          |          |    | Analyst: BRM          |  |  |  |
| Diesel Range Organics (DRO)    | ND          | 9.8      | mg/Kg    | 1  | 4/28/2020 12:42:45 PM |  |  |  |
| Motor Oil Range Organics (MRO) | ND          | 49       | mg/Kg    | 1  | 4/28/2020 12:42:45 PM |  |  |  |
| Surr: DNOP                     | 84.8        | 55.1-146 | %Rec     | 1  | 4/28/2020 12:42:45 PM |  |  |  |
| EPA METHOD 300.0: ANIONS       |             |          |          |    | Analyst: JMT          |  |  |  |
| Chloride                       | 63          | 60       | mg/Kg    | 20 | 4/27/2020 12:27:16 AM |  |  |  |
| EPA METHOD 8260B: VOLATILES SH | IORT LIST   |          |          |    | Analyst: JMR          |  |  |  |
| Benzene                        | ND          | 0.024    | mg/Kg    | 1  | 4/27/2020 5:38:56 PM  |  |  |  |
| Toluene                        | ND          | 0.047    | mg/Kg    | 1  | 4/27/2020 5:38:56 PM  |  |  |  |
| Ethylbenzene                   | ND          | 0.047    | mg/Kg    | 1  | 4/27/2020 5:38:56 PM  |  |  |  |
| Xylenes, Total                 | ND          | 0.095    | mg/Kg    | 1  | 4/27/2020 5:38:56 PM  |  |  |  |
| Surr: 1,2-Dichloroethane-d4    | 79.2        | 70-130   | %Rec     | 1  | 4/27/2020 5:38:56 PM  |  |  |  |
| Surr: 4-Bromofluorobenzene     | 103         | 70-130   | %Rec     | 1  | 4/27/2020 5:38:56 PM  |  |  |  |
| Surr: Dibromofluoromethane     | 85.7        | 70-130   | %Rec     | 1  | 4/27/2020 5:38:56 PM  |  |  |  |
| Surr: Toluene-d8               | 94.4        | 70-130   | %Rec     | 1  | 4/27/2020 5:38:56 PM  |  |  |  |
| EPA METHOD 8015D MOD: GASOLIN  | E RANGE     |          |          |    | Analyst: JMR          |  |  |  |
| Gasoline Range Organics (GRO)  | ND          | 4.7      | mg/Kg    | 1  | 4/27/2020 5:38:56 PM  |  |  |  |
| Surr: BFB                      | 101         | 70-130   | %Rec     | 1  | 4/27/2020 5:38:56 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
- 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

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

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**Analytical Report** Lab Order 2004997

DF

1

mg/Kg

Date Reported: 4/29/2020

**Date Analyzed** 

Analyst: BRM

4/24/2020 6:44:00 PM

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS20-08 2' **Project:** Tony La Russa State Com 201H Pasture Collection Date: 4/21/2020 12:25:00 PM Lab ID: 2004997-005 Matrix: SOIL Received Date: 4/23/2020 9:40:00 AM Analyses Result **RL** Qual Units **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.7 Motor Oil D ..... 0 ... Е

| Diesei Range Organics (DRO)            | ND   | 9.7      |   | mg/kg | 1  | 4/24/2020 6.44.00 PIVI |
|--|------|----------|---|-------|----|------------------------|
| Motor Oil Range Organics (MRO)         | ND   | 48       |   | mg/Kg | 1  | 4/24/2020 6:44:00 PM   |
| Surr: DNOP                             | 20.3 | 55.1-146 | S | %Rec  | 1  | 4/24/2020 6:44:00 PM   |
| EPA METHOD 300.0: ANIONS               |      |          |   |       |    | Analyst: JMT           |
| Chloride                               | 100  | 60       |   | mg/Kg | 20 | 4/27/2020 1:04:30 AM   |
| EPA METHOD 8260B: VOLATILES SHORT LIST |      |          |   |       |    | Analyst: JMR           |
| Benzene                                | ND   | 0.023    |   | mg/Kg | 1  | 4/27/2020 6:07:27 PM   |
| Toluene                                | ND   | 0.046    |   | mg/Kg | 1  | 4/27/2020 6:07:27 PM   |
| Ethylbenzene                           | ND   | 0.046    |   | mg/Kg | 1  | 4/27/2020 6:07:27 PM   |
| Xylenes, Total                         | ND   | 0.092    |   | mg/Kg | 1  | 4/27/2020 6:07:27 PM   |
| Surr: 1,2-Dichloroethane-d4            | 80.2 | 70-130   |   | %Rec  | 1  | 4/27/2020 6:07:27 PM   |
| Surr: 4-Bromofluorobenzene             | 97.6 | 70-130   |   | %Rec  | 1  | 4/27/2020 6:07:27 PM   |
| Surr: Dibromofluoromethane             | 85.7 | 70-130   |   | %Rec  | 1  | 4/27/2020 6:07:27 PM   |
| Surr: Toluene-d8                       | 93.8 | 70-130   |   | %Rec  | 1  | 4/27/2020 6:07:27 PM   |
| EPA METHOD 8015D MOD: GASOLINE RANGE   |      |          |   |       |    | Analyst: JMR           |
| Gasoline Range Organics (GRO)          | ND   | 4.6      |   | mg/Kg | 1  | 4/27/2020 6:07:27 PM   |
| Surr: BFB                              | 94.0 | 70-130   |   | %Rec  | 1  | 4/27/2020 6:07:27 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 range due to dilution or matrix S

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

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CLIENT: Vertex Resource Group Ltd.

Analytical Report
Lab Order 2004997

Date Reported: 4/29/2020

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pasture

Client Sample ID: WS20-04 0-0.5' Collection Date: 4/21/2020 9:50:00 AM Received Date: 4/23/2020 9:40:00 AM

| Lab ID: 2004997-006            | Matrix: SOIL | Receiv   | ed Date: | 4/23/2 | 2020 9:40:00 AM      |
|--------------------------------|--------------|----------|----------|--------|----------------------|
| Analyses                       | Result       | RL Qual  | Units    | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RA  | NGE ORGANICS |          |          |        | Analyst: BRM         |
| Diesel Range Organics (DRO)    | ND           | 9.8      | mg/Kg    | 1      | 4/27/2020 4:30:04 PM |
| Motor Oil Range Organics (MRO) | ND           | 49       | mg/Kg    | 1      | 4/27/2020 4:30:04 PM |
| Surr: DNOP                     | 111          | 55.1-146 | %Rec     | 1      | 4/27/2020 4:30:04 PM |
| EPA METHOD 300.0: ANIONS       |              |          |          |        | Analyst: JMT         |
| Chloride                       | ND           | 60       | mg/Kg    | 20     | 4/27/2020 1:16:54 AM |
| EPA METHOD 8260B: VOLATILES S  | HORT LIST    |          |          |        | Analyst: JMR         |
| Benzene                        | ND           | 0.024    | mg/Kg    | 1      | 4/27/2020 6:36:09 PM |
| Toluene                        | ND           | 0.048    | mg/Kg    | 1      | 4/27/2020 6:36:09 PM |
| Ethylbenzene                   | ND           | 0.048    | mg/Kg    | 1      | 4/27/2020 6:36:09 PM |
| Xylenes, Total                 | ND           | 0.096    | mg/Kg    | 1      | 4/27/2020 6:36:09 PM |
| Surr: 1,2-Dichloroethane-d4    | 77.3         | 70-130   | %Rec     | 1      | 4/27/2020 6:36:09 PM |
| Surr: 4-Bromofluorobenzene     | 99.9         | 70-130   | %Rec     | 1      | 4/27/2020 6:36:09 PM |
| Surr: Dibromofluoromethane     | 88.2         | 70-130   | %Rec     | 1      | 4/27/2020 6:36:09 PM |
| Surr: Toluene-d8               | 97.6         | 70-130   | %Rec     | 1      | 4/27/2020 6:36:09 PM |
| EPA METHOD 8015D MOD: GASOLI   | NE RANGE     |          |          |        | Analyst: JMR         |
| Gasoline Range Organics (GRO)  | ND           | 4.8      | mg/Kg    | 1      | 4/27/2020 6:36:09 PM |
| Surr: BFB                      | 103          | 70-130   | %Rec     | 1      | 4/27/2020 6:36:09 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

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

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Lab ID:

CLIENT: Vertex Resource Group Ltd.

2004997-007

Analytical Report Lab Order 2004997

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pasture

Date Reported: 4/29/2020 Client Sample ID: WS20-05 0-0.5' Collection Date: 4/21/2020 10:00:00 AM

Received Date: 4/23/2020 9:40:00 AM

| Analyses                               | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGAI | NICS   |          |      |       |    | Analyst: BRM         |
| Diesel Range Organics (DRO)            | ND     | 9.6      |      | mg/Kg | 1  | 4/24/2020 7:32:32 PM |
| Motor Oil Range Organics (MRO)         | ND     | 48       |      | mg/Kg | 1  | 4/24/2020 7:32:32 PM |
| Surr: DNOP                             | 25.7   | 55.1-146 | S    | %Rec  | 1  | 4/24/2020 7:32:32 PM |
| EPA METHOD 300.0: ANIONS               |        |          |      |       |    | Analyst: JMT         |
| Chloride                               | 260    | 60       |      | mg/Kg | 20 | 4/27/2020 1:29:19 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST |        |          |      |       |    | Analyst: JMR         |
| Benzene                                | ND     | 0.024    |      | mg/Kg | 1  | 4/27/2020 7:04:37 PM |
| Toluene                                | ND     | 0.048    |      | mg/Kg | 1  | 4/27/2020 7:04:37 PM |
| Ethylbenzene                           | ND     | 0.048    |      | mg/Kg | 1  | 4/27/2020 7:04:37 PM |
| Xylenes, Total                         | ND     | 0.097    |      | mg/Kg | 1  | 4/27/2020 7:04:37 PM |
| Surr: 1,2-Dichloroethane-d4            | 79.2   | 70-130   |      | %Rec  | 1  | 4/27/2020 7:04:37 PM |
| Surr: 4-Bromofluorobenzene             | 99.1   | 70-130   |      | %Rec  | 1  | 4/27/2020 7:04:37 PM |
| Surr: Dibromofluoromethane             | 89.3   | 70-130   |      | %Rec  | 1  | 4/27/2020 7:04:37 PM |
| Surr: Toluene-d8                       | 93.6   | 70-130   |      | %Rec  | 1  | 4/27/2020 7:04:37 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE   |        |          |      |       |    | Analyst: JMR         |
| Gasoline Range Organics (GRO)          | ND     | 4.8      |      | mg/Kg | 1  | 4/27/2020 7:04:37 PM |
| Surr: BFB                              | 98.4   | 70-130   |      | %Rec  | 1  | 4/27/2020 7:04:37 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
- 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

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

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Lab ID:

CLIENT: Vertex Resource Group Ltd.

2004997-008

Analytical Report Lab Order 2004997

Date Reported: 4/29/2020

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pasture

Client Sample ID: WS20-06 0-2' Collection Date: 4/21/2020 10:10:00 AM Received Date: 4/23/2020 9:40:00 AM

| Analyses                          | Result   | RL       | Qual | Units  | DF | Date Analyzed        |  |  |
|-----------------------------------|----------|----------|------|--------|----|----------------------|--|--|
| EPA METHOD 8015M/D: DIESEL RANGE  | ORGANICS |          |      |        |    | Analyst: BRM         |  |  |
| Diesel Range Organics (DRO)       | ND       | 9.6      |      | mg/Kg  | 1  | 4/24/2020 7:56:37 PM |  |  |
| Motor Oil Range Organics (MRO)    | ND       | 48       |      | mg/Kg  | 1  | 4/24/2020 7:56:37 PM |  |  |
| Surr: DNOP                        | 29.2     | 55.1-146 | S    | %Rec   | 1  | 4/24/2020 7:56:37 PM |  |  |
| EPA METHOD 300.0: ANIONS          |          |          |      |        |    | Analyst: <b>JMT</b>  |  |  |
| Chloride                          | 220      | 60       |      | mg/Kg  | 20 | 4/27/2020 1:41:44 AM |  |  |
| EPA METHOD 8260B: VOLATILES SHOR  | T LIST   |          |      |        |    | Analyst: JMR         |  |  |
| Benzene                           | ND       | 0.023    |      | mg/Kg  | 1  | 4/27/2020 7:33:05 PM |  |  |
| Toluene                           | ND       | 0.046    |      | mg/Kg  | 1  | 4/27/2020 7:33:05 PM |  |  |
| Ethylbenzene                      | ND       | 0.046    |      | mg/Kg  | 1  | 4/27/2020 7:33:05 PM |  |  |
| Xylenes, Total                    | ND       | 0.092    |      | mg/Kg  | 1  | 4/27/2020 7:33:05 PM |  |  |
| Surr: 1,2-Dichloroethane-d4       | 79.5     | 70-130   |      | %Rec   | 1  | 4/27/2020 7:33:05 PM |  |  |
| Surr: 4-Bromofluorobenzene        | 101      | 70-130   |      | %Rec   | 1  | 4/27/2020 7:33:05 PM |  |  |
| Surr: Dibromofluoromethane        | 88.3     | 70-130   |      | %Rec   | 1  | 4/27/2020 7:33:05 PM |  |  |
| Surr: Toluene-d8                  | 96.4     | 70-130   |      | %Rec   | 1  | 4/27/2020 7:33:05 PM |  |  |
| EPA METHOD 8015D MOD: GASOLINE RA | ANGE     |          |      |        |    | Analyst: JMR         |  |  |
| Gasoline Range Organics (GRO)     | ND       | 4.6      |      | mg/Kg  | 1  | 4/27/2020 7:33:05 PM |  |  |
| Surr: BFB                         | 100      | 70-130   |      | %Rec   | 1  | 4/27/2020 7:33:05 PM |  |  |
|                                   | 100      | 10-100   |      | /01/00 |    | 7/21/20              |  |  |

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

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

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CLIENT: Vertex Resource Group Ltd.

**Analytical Report** Lab Order 2004997

Date Reported: 4/29/2020

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pasture

Client Sample ID: WS20-07 0-2' Collection Date: 4/21/2020 10:20:00 AM Received Date: 4/23/2020 9:40:00 AM

| Lab ID: 2004997-009             | Matrix: SOIL | Rece     | Received Date: 4/23/2020 9:40:00 AM |    |                      |  |  |  |
|---------------------------------|--------------|----------|-------------------------------------|----|----------------------|--|--|--|
| Analyses                        | Result       | RL Qua   | al Units                            | DF | Date Analyzed        |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |                                     |    | Analyst: BRM         |  |  |  |
| Diesel Range Organics (DRO)     | ND           | 10       | mg/Kg                               | 1  | 4/27/2020 4:54:04 PM |  |  |  |
| Motor Oil Range Organics (MRO)  | ND           | 50       | mg/Kg                               | 1  | 4/27/2020 4:54:04 PM |  |  |  |
| Surr: DNOP                      | 69.3         | 55.1-146 | %Rec                                | 1  | 4/27/2020 4:54:04 PM |  |  |  |
| EPA METHOD 300.0: ANIONS        |              |          |                                     |    | Analyst: JMT         |  |  |  |
| Chloride                        | 82           | 61       | mg/Kg                               | 20 | 4/27/2020 1:54:09 AM |  |  |  |
| EPA METHOD 8260B: VOLATILES SHO | RT LIST      |          |                                     |    | Analyst: JMR         |  |  |  |
| Benzene                         | ND           | 0.023    | mg/Kg                               | 1  | 4/27/2020 8:01:37 PM |  |  |  |
| Toluene                         | ND           | 0.046    | mg/Kg                               | 1  | 4/27/2020 8:01:37 PM |  |  |  |
| Ethylbenzene                    | ND           | 0.046    | mg/Kg                               | 1  | 4/27/2020 8:01:37 PM |  |  |  |
| Xylenes, Total                  | ND           | 0.093    | mg/Kg                               | 1  | 4/27/2020 8:01:37 PM |  |  |  |
| Surr: 1,2-Dichloroethane-d4     | 79.8         | 70-130   | %Rec                                | 1  | 4/27/2020 8:01:37 PM |  |  |  |
| Surr: 4-Bromofluorobenzene      | 102          | 70-130   | %Rec                                | 1  | 4/27/2020 8:01:37 PM |  |  |  |
| Surr: Dibromofluoromethane      | 87.7         | 70-130   | %Rec                                | 1  | 4/27/2020 8:01:37 PM |  |  |  |
| Surr: Toluene-d8                | 96.3         | 70-130   | %Rec                                | 1  | 4/27/2020 8:01:37 PM |  |  |  |
| EPA METHOD 8015D MOD: GASOLINE  | RANGE        |          |                                     |    | Analyst: JMR         |  |  |  |
| Gasoline Range Organics (GRO)   | ND           | 4.6      | mg/Kg                               | 1  | 4/27/2020 8:01:37 PM |  |  |  |
| Surr: BFB                       | 99.2         | 70-130   | %Rec                                | 1  | 4/27/2020 8:01:37 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 range due to dilution or matrix S

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

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CLIENT: Vertex Resource Group Ltd.

**Analytical Report** Lab Order 2004997

Date Reported: 4/29/2020

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pasture

Client Sample ID: WS20-08 0-2' Collection Date: 4/21/2020 10:30:00 AM Received Date: 4/23/2020 9:40:00 AM

| Lab ID: 2004997-010            | Matrix: SOIL | Recei      | <b>Received Date:</b> 4/23/2020 9:40:00 AM |    |                      |  |  |  |  |
|--------------------------------|--------------|------------|--|----|----------------------|--|--|--|--|
| Analyses                       | Result       | RL Qua     | l Units                                    | DF | Date Analyzed        |  |  |  |  |
| EPA METHOD 8015M/D: DIESEL RA  | NGE ORGANICS |            |  |    | Analyst: BRM         |  |  |  |  |
| Diesel Range Organics (DRO)    | ND           | 9.3        | mg/Kg                                      | 1  | 4/24/2020 8:44:52 PM |  |  |  |  |
| Motor Oil Range Organics (MRO) | ND           | 47         | mg/Kg                                      | 1  | 4/24/2020 8:44:52 PM |  |  |  |  |
| Surr: DNOP                     | 16.0         | 55.1-146 S | %Rec                                       | 1  | 4/24/2020 8:44:52 PM |  |  |  |  |
| EPA METHOD 300.0: ANIONS       |              |            |  |    | Analyst: JMT         |  |  |  |  |
| Chloride                       | 120          | 60         | mg/Kg                                      | 20 | 4/27/2020 2:06:34 AM |  |  |  |  |
| EPA METHOD 8260B: VOLATILES S  | HORT LIST    |            |  |    | Analyst: JMR         |  |  |  |  |
| Benzene                        | ND           | 0.025      | mg/Kg                                      | 1  | 4/27/2020 8:30:03 PM |  |  |  |  |
| Toluene                        | ND           | 0.050      | mg/Kg                                      | 1  | 4/27/2020 8:30:03 PM |  |  |  |  |
| Ethylbenzene                   | ND           | 0.050      | mg/Kg                                      | 1  | 4/27/2020 8:30:03 PM |  |  |  |  |
| Xylenes, Total                 | ND           | 0.099      | mg/Kg                                      | 1  | 4/27/2020 8:30:03 PM |  |  |  |  |
| Surr: 1,2-Dichloroethane-d4    | 79.2         | 70-130     | %Rec                                       | 1  | 4/27/2020 8:30:03 PM |  |  |  |  |
| Surr: 4-Bromofluorobenzene     | 97.0         | 70-130     | %Rec                                       | 1  | 4/27/2020 8:30:03 PM |  |  |  |  |
| Surr: Dibromofluoromethane     | 85.2         | 70-130     | %Rec                                       | 1  | 4/27/2020 8:30:03 PM |  |  |  |  |
| Surr: Toluene-d8               | 95.5         | 70-130     | %Rec                                       | 1  | 4/27/2020 8:30:03 PM |  |  |  |  |
| EPA METHOD 8015D MOD: GASOLI   | NE RANGE     |            |  |    | Analyst: JMR         |  |  |  |  |
| Gasoline Range Organics (GRO)  | ND           | 5.0        | mg/Kg                                      | 1  | 4/27/2020 8:30:03 PM |  |  |  |  |
| Surr: BFB                      | 98.2         | 70-130     | %Rec                                       | 1  | 4/27/2020 8:30:03 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
- н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Lab ID:

Analyses

Surr: DNOP

CLIENT: Vertex Resource Group Ltd.

**Analytical Report** Lab Order 2004997

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/29/2020 Client Sample ID: WS20-09 0-0.5'

Tony La Russa State Com 201H Pasture Collection Date: 4/21/2020 10:40:00 AM 2004997-011 Matrix: SOIL Received Date: 4/23/2020 9:40:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME **Diesel Range Organics (DRO)** 4/24/2020 9:29:16 AM ND 9.9 mg/Kg 1 Motor Oil Range Organics (MRO) ND 4/24/2020 9:29:16 AM 50 mg/Kg 1 100 55.1-146 %Rec 1 4/24/2020 9:29:16 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT

| Chloride                               | 250  | 60     | mg/Kg | 20 | 4/27/2020 2:18:59 AM |
|--|------|--------|-------|----|----------------------|
| EPA METHOD 8260B: VOLATILES SHORT LIST |      |        |       |    | Analyst: JMR         |
| Benzene                                | ND   | 0.025  | mg/Kg | 1  | 4/27/2020 8:58:30 PM |
| Toluene                                | ND   | 0.049  | mg/Kg | 1  | 4/27/2020 8:58:30 PM |
| Ethylbenzene                           | ND   | 0.049  | mg/Kg | 1  | 4/27/2020 8:58:30 PM |
| Xylenes, Total                         | ND   | 0.098  | mg/Kg | 1  | 4/27/2020 8:58:30 PM |
| Surr: 1,2-Dichloroethane-d4            | 79.1 | 70-130 | %Rec  | 1  | 4/27/2020 8:58:30 PM |
| Surr: 4-Bromofluorobenzene             | 97.0 | 70-130 | %Rec  | 1  | 4/27/2020 8:58:30 PM |
| Surr: Dibromofluoromethane             | 88.4 | 70-130 | %Rec  | 1  | 4/27/2020 8:58:30 PM |
| Surr: Toluene-d8                       | 94.1 | 70-130 | %Rec  | 1  | 4/27/2020 8:58:30 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE   |      |        |       |    | Analyst: JMR         |
| Gasoline Range Organics (GRO)          | ND   | 4.9    | mg/Kg | 1  | 4/27/2020 8:58:30 PM |
| Surr: BFB                              | 97.2 | 70-130 | %Rec  | 1  | 4/27/2020 8:58:30 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 range due to dilution or matrix S

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

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|                      | ertex Resource Group Ltd.<br>ony La Russa State Com 201H Pastu | Ire                       |                     |               |  |  |
|----------------------|--|---------------------------|---------------------|---------------|--|--|
|                      | •  |                           |                     |               |  |  |
| Sample ID: MB-52089  | SampType: <b>mblk</b>  | TestCode: EPA Method      | 300.0: Anions       |               |  |  |
| Client ID: PBS       | Batch ID: 52089  | RunNo: <b>68426</b>       |                     |               |  |  |
| Prep Date: 4/26/2020 | Analysis Date: 4/26/2020                                       | SeqNo: 2367641            | Units: mg/Kg        |               |  |  |
| Analyte              | Result PQL SPK value   | SPK Ref Val %REC LowLimit | HighLimit %RPD      | RPDLimit Qual |  |  |
| Chloride             | ND 1.5   |                           |                     |               |  |  |
| Sample ID: LCS-52089 | SampType: Ics  | TestCode: EPA Method      | 300.0: Anions       |               |  |  |
| Client ID: LCSS      | Batch ID: 52089  | RunNo: 68426              |                     |               |  |  |
| Prep Date: 4/26/2020 | Analysis Date: 4/26/2020                                       | SeqNo: 2367642            | 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 93.8 90                 | 110                 |               |  |  |
| Sample ID: MB-52092  | SampType: mblk   | TestCode: EPA Method      | 300.0: Anions       |               |  |  |
| Client ID: PBS       | Batch ID: 52092  | RunNo: 68439              |                     |               |  |  |
| Prep Date: 4/26/2020 | Analysis Date: 4/26/2020                                       | SeqNo: 2368151            | 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-52092 | SampType: Ics  | TestCode: EPA Method      | 300.0: Anions       |               |  |  |
| Client ID: LCSS      | Batch ID: 52092  | RunNo: 68439              |                     |               |  |  |
| Prep Date: 4/26/2020 | Analysis Date: 4/27/2020                                       | SeqNo: 2368152            | 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 94.0 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 range due to dilution or matrix

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

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2004997

29-Apr-20

WO#:

| Client: Vertex Re<br>Project: Tony La F  |                              | -                                  | l.<br>201H Pastu    | re                          |                                     |                             |                             |            |            |      |  |  |  |
|--|------------------------------|------------------------------------|---------------------|-----------------------------|-------------------------------------|-----------------------------|-----------------------------|------------|------------|------|--|--|--|
| Sample ID: MB-52053  | SampT                        | ype: ME                            | BLK                 | Tes                         | tCode: El                           | PA Method                   | 8015M/D: Die                | esel Range | e Organics |      |  |  |  |
| Client ID: PBS   | Batch                        | n ID: 520                          | 053                 | F                           | RunNo: <b>6</b>                     | 8394                        |                             |            |            |      |  |  |  |
| Prep Date: 4/23/2020   | Analysis D                   | ate: 4/                            | 24/2020             | S                           | SeqNo: 2                            | 366387                      | 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   | 13                           |                                    | 10.00               |                             | 130                                 | 55.1                        | 146                         |            |            |      |  |  |  |
| Sample ID: MB-52057  | SampT                        | уре: МЕ                            | BLK                 | Tes                         | tCode: El                           | PA Method                   | 8015M/D: Die                | esel Range | e Organics |      |  |  |  |
| Client ID: PBS   | Batch                        | n ID: 520                          | 057                 | RunNo: 68394                |                                     |                             |                             |            |            |      |  |  |  |
| Prep Date: 4/23/2020   | Analysis D                   | ate: 4/                            | 24/2020             | S                           | SeqNo: 2                            | 366388                      | 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   | 11                           |                                    | 10.00               |                             | 113                                 | 55.1                        | 146                         |            |            |      |  |  |  |
| Sample ID: LCS-52053   | SampT                        | ype: LC                            | S                   | Tes                         | tCode: El                           | PA Method                   | 8015M/D: Die                | esel Range | e Organics |      |  |  |  |
| Client ID: LCSS  | Batch                        | n ID: 520                          | 053                 | RunNo: <b>68394</b>         |                                     |                             |                             |            |            |      |  |  |  |
| Prep Date: 4/23/2020   | Analysis D                   | )ate: 4/                           | 24/2020             | SeqNo: 2366389 Units: mg/Kg |                                     |                             |                             |            |            |      |  |  |  |
| Analyte  | Result                       | PQL                                | SPK value           | SPK Ref Val                 | %REC                                | LowLimit                    | HighLimit                   | %RPD       | RPDLimit   | Qual |  |  |  |
| Diesel Range Organics (DRO)  | 64                           | 10                                 | 50.00               | 0                           | 128                                 | 70                          | 130                         |            |            |      |  |  |  |
| Surr: DNOP   | 6.4                          |                                    | 5.000               |                             | 129                                 | 55.1                        | 146                         |            |            |      |  |  |  |
| Sample ID: LCS-52057   | SampT                        | -<br>ype: <b>LC</b>                | S                   | Tes                         | tCode: El                           | PA Method                   | 8015M/D: Die                | esel Range | e Organics |      |  |  |  |
| Client ID: LCSS  | Batch                        | n ID: 520                          | 057                 | F                           | RunNo: 6                            | 8394                        |                             |            |            |      |  |  |  |
| Prep Date: 4/23/2020   | Analysis D                   | ate: 4/                            | 24/2020             | S                           | SeqNo: 2                            | 366390                      | Units: mg/K                 | g          |            |      |  |  |  |
| Analyte  | Result                       | PQL                                | SPK value           | SPK Ref Val                 | %REC                                | LowLimit                    | HighLimit                   | %RPD       | RPDLimit   | Qual |  |  |  |
| Diesel Range Organics (DRO)  | 65                           | 10                                 | 50.00               | 0                           | 129                                 | 70                          | 130                         |            |            |      |  |  |  |
|  | ~ -                          |                                    | 5.000               |                             | 129                                 | 55.1                        | 146                         |            |            |      |  |  |  |
| Surr: DNOP   | 6.5                          |                                    | 5.000               |                             |                                     |                             |                             |            |            |      |  |  |  |
| Surr: DNOP Sample ID: 2004997-011AMS   |                              | ype: <b>MS</b>                     |                     | Tes                         |                                     |                             |                             | esel Range | e Organics |      |  |  |  |
|  | SampT                        | ype: <b>MS</b><br>n ID: <b>52</b>  | ;                   |                             |                                     | PA Method                   |                             | esel Range | e Organics |      |  |  |  |
| Sample ID: 2004997-011AMS  | SampT                        | n ID: 520                          | 5<br>057            | F                           | tCode: Ef                           | PA Method<br>8394           |                             | _          | e Organics |      |  |  |  |
| Sample ID:         2004997-011AMS           Client ID:         WS20-09 0-0.5'           Prep Date:         4/23/2020 | SampT<br>Batch               | n ID: 520                          | 5<br>057<br>24/2020 | F                           | tCode: EF<br>RunNo: 68<br>SeqNo: 23 | PA Method<br>8394           | 8015M/D: Die                | _          | e Organics | Qual |  |  |  |
| Sample ID: 2004997-011AMS<br>Client ID: WS20-09 0-0.5'   | SampT<br>Batch<br>Analysis D | n ID: <b>52</b><br>Date: <b>4/</b> | 5<br>057<br>24/2020 | F                           | tCode: EF<br>RunNo: 68<br>SeqNo: 23 | PA Method<br>8394<br>366398 | 8015M/D: Die<br>Units: mg/K | g          | -          | Qual |  |  |  |

#### Qualifiers:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

2004997

29-Apr-20

WO#:

| Client:<br>Project: | Vertex Re<br>Tony La R  |                          | 1              | 1.<br>201H Pastu | re           |                 |           |                    |              |            |      |  |
|---------------------|---|--------------------------|----------------|------------------|--------------|-----------------|-----------|--------------------|--------------|------------|------|--|
| Sample ID:          | 2004997-011AMSD   | SampT                    | ype: <b>MS</b> | SD.              | Tes          | tCode: EF       | PA Method | 8015M/D: Die       | esel Range   | e Organics |      |  |
| Client ID:          | WS20-09 0-0.5'  | Batch                    | n ID: 520      | 057              | RunNo: 68394 |                 |           |                    |              |            |      |  |
| Prep Date:          | 4/23/2020   | Analysis D               | ate: 4/        | 24/2020          | S            | SeqNo: 2        | 366399    | Units: mg/K        | g            |            |      |  |
| Analyte             |   | Result                   | PQL            | SPK value        | SPK Ref Val  | %REC            | LowLimit  | HighLimit          | %RPD         | RPDLimit   | Qual |  |
| Diesel Range C      | Organics (DRO)  | 41                       | 9.6            | 48.03            | 0            | 86.3            | 47.4      | 136                | 5.22         | 43.4       |      |  |
| Surr: DNOP          |   | 3.2                      |                | 4.803            |              | 67.4            | 55.1      | 146                | 0            | 0          |      |  |
| Sample ID:          | LCS-52131         SampType: LCS         TestCode: EPA Method 8015M/D: Diesel Range Organics |                          |                |                  |              |                 |           |                    |              |            |      |  |
| Client ID:          | LCSS  | Batch                    | n ID: 52       | 131              | F            | RunNo: 68       | 3463      |                    |              |            |      |  |
| Prep Date:          | 4/28/2020   | Analysis Date: 4/28/2020 |                |                  | S            | SeqNo: 2369456  |           |                    | Units: mg/Kg |            |      |  |
| Analyte             |   | Result                   | PQL            | SPK value        | SPK Ref Val  | %REC            | LowLimit  | HighLimit          | %RPD         | RPDLimit   | Qual |  |
| Diesel Range C      | Organics (DRO)  | 47                       | 10             | 50.00            | 0            | 94.2            | 70        | 130                |              |            |      |  |
| Surr: DNOP          |   | 4.2                      |                | 5.000            |              | 84.2            | 55.1      | 146                |              |            |      |  |
| Sample ID:          | MB-52131  | SampT                    | ype: <b>ME</b> | BLK              | Tes          | tCode: EF       | PA Method | 8015M/D: Die       | esel Range   | e Organics |      |  |
| Client ID:          | PBS   | Batch                    | n ID: 52       | 131              | F            | RunNo: <b>6</b> | 3463      |                    |              |            |      |  |
| Prep Date:          | 4/28/2020   | Analysis D               | ate: 4/        | 28/2020          | S            | SeqNo: 2        | 369457    | Units: <b>mg/K</b> | g            |            |      |  |
| Analyte             |   | Result                   | PQL            | SPK value        | SPK Ref Val  | %REC            | LowLimit  | HighLimit          | %RPD         | RPDLimit   | Qual |  |
| Diesel Range C      | Organics (DRO)  | ND                       | 10             |                  |              |                 |           |                    |              |            |      |  |
|                     |   |                          |                |                  |              |                 |           |                    |              |            |      |  |
| Motor Oil Rang      | e Organics (MRO)  | ND                       | 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
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#: 2004997 29-Apr-20 **Client:** 

**Project:** 

Analyte Benzene Toluene Ethylbenzene Xylenes, Total

Sample ID: mb-52049 Client ID: PBS Prep Date: 4/23/2020

Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane

Surr: Toluene-d8

Analyte Benzene Toluene Ethylbenzene Xylenes, Total

Sample ID: Ics-52049 Client ID: LCSS Prep Date: 4/23/2020

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

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

Vertex Resource Group Ltd.

0.49

0.47

0.49

0.5000

0.5000

0.5000

Tony La Russa State Com 201H Pasture

| *   | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank |
|-----|---|----|---|
| D   | Sample Diluted Due to Matrix                          | Е  | Value above quantitation range                  |
| Н   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
| ND  | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                          |
| PQL | Practical Quanitative Limit                           | RL | Reporting Limit                                 |
| S   | % Recovery outside of range due to dilution or matrix |    |   |
|     |   |    |   |
|     |   |    |   |

| SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List |                 |           |             |           |           |              |            |          |      |  |  |
|---|-----------------|-----------|-------------|-----------|-----------|--------------|------------|----------|------|--|--|
| Batc  | h ID: 520       | 049       | R           | lunNo: 6  | 8429      |              |            |          |      |  |  |
| Analysis [  | Date: 4/        | 26/2020   | S           | eqNo: 2   | 367765    | Units: mg/K  | g          |          |      |  |  |
| Result  | PQL             | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual |  |  |
| ND  | 0.025           |           |             |           |           |              |            |          |      |  |  |
| ND  | 0.050           |           |             |           |           |              |            |          |      |  |  |
| ND  | 0.050           |           |             |           |           |              |            |          |      |  |  |
| ND  | 0.10            |           |             |           |           |              |            |          |      |  |  |
| 0.42  |                 | 0.5000    |             | 84.5      | 70        | 130          |            |          |      |  |  |
| 0.49  |                 | 0.5000    |             | 98.2      | 70        | 130          |            |          |      |  |  |
| 0.47  |                 | 0.5000    |             | 94.8      | 70        | 130          |            |          |      |  |  |
| 0.49  |                 | 0.5000    |             | 98.4      | 70        | 130          |            |          |      |  |  |
| Samp  | Гуре: <b>LC</b> | S         | Tes         | tCode: El | PA Method | 8260B: Volat | iles Short | List     |      |  |  |
| Batc  | h ID: 520       | 049       | R           | unNo: 6   | 8429      |              |            |          |      |  |  |
| Analysis [  | Date: 4/        | 26/2020   | S           | eqNo: 2   | 367766    | Units: mg/K  | g          |          |      |  |  |
| Result  | PQL             | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual |  |  |
| 0.85  | 0.025           | 1.000     | 0           | 85.3      | 70        | 130          |            |          |      |  |  |
| 0.98  | 0.050           | 1.000     | 0           | 97.9      | 70        | 130          |            |          |      |  |  |
| 1.0   | 0.050           | 1.000     | 0           | 104       | 70        | 130          |            |          |      |  |  |
| 3.1   | 0.10            | 3.000     | 0           | 103       | 70        | 130          |            |          |      |  |  |
| 0.44  |                 | 0.5000    |             | 88.3      | 70        | 130          |            |          |      |  |  |

70

70

70

130

130

130

| Sample ID: 2004997-001ams<br>Client ID: BS20-04 0.5' | TestCode: EPA Method 8260B: Volatiles Short List<br>RunNo: 68461 |  |           |             |      |          |           |      |          |      |
|--|--|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Prep Date: 4/23/2020                                 | Analysis D   | alysis Date: 4/27/2020 SeqNo: 2368886 Units: mg/Kg |           |             |      | ٢g       |           |      |          |      |
| Analyte  | Result   | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene  | 0.80   | 0.025  | 0.9872    | 0           | 81.1 | 70       | 130       |      |          |      |
| Toluene  | 0.97   | 0.049  | 0.9872    | 0           | 98.7 | 70       | 130       |      |          |      |
| Ethylbenzene   | 1.1  | 0.049  | 0.9872    | 0           | 107  | 70       | 130       |      |          |      |
| Xylenes, Total                                       | 3.1  | 0.099  | 2.962     | 0           | 105  | 70       | 130       |      |          |      |
| Surr: 1,2-Dichloroethane-d4                          | 0.40   |  | 0.4936    |             | 80.2 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene                           | 0.50   |  | 0.4936    |             | 101  | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane                           | 0.44   |  | 0.4936    |             | 89.4 | 70       | 130       |      |          |      |
| Surr: Toluene-d8                                     | 0.48   |  | 0.4936    |             | 96.3 | 70       | 130       |      |          |      |

97.8

94.6

97.6

WO#:

Vertex Resource Group Ltd.

## Project: Tony La Russa State Com 201H Pasture

**Client:** 

| Sample ID: 2004997-001ams   | TestCode: EPA Method 8260B: Volatiles Short List |           |           |             |          |          |                    |       |          |      |
|-----------------------------|--|-----------|-----------|-------------|----------|----------|--------------------|-------|----------|------|
| Client ID: BS20-04 0.5'     | Batc   | h ID: 520 | 049       | F           | RunNo: 6 | 8461     |                    |       |          |      |
| Prep Date: 4/23/2020        | Analysis [                                       | Date: 4/  | 27/2020   | 5           | SeqNo: 2 | 368887   | Units: <b>mg/K</b> | ſg    |          |      |
| Analyte                     | Result   | PQL       | SPK value | SPK Ref Val | %REC     | LowLimit | HighLimit          | %RPD  | RPDLimit | Qual |
| Benzene                     | 0.83   | 0.025     | 0.9980    | 0           | 83.0     | 70       | 130                | 3.42  | 20       |      |
| Toluene                     | 1.0  | 0.050     | 0.9980    | 0           | 101      | 70       | 130                | 3.68  | 20       |      |
| Ethylbenzene                | 1.0  | 0.050     | 0.9980    | 0           | 105      | 70       | 130                | 0.833 | 0        |      |
| Xylenes, Total              | 3.2  | 0.10      | 2.994     | 0           | 106      | 70       | 130                | 1.96  | 0        |      |
| Surr: 1,2-Dichloroethane-d4 | 0.40   |           | 0.4990    |             | 81.1     | 70       | 130                | 0     | 0        |      |
| Surr: 4-Bromofluorobenzene  | 0.48   |           | 0.4990    |             | 97.1     | 70       | 130                | 0     | 0        |      |
| Surr: Dibromofluoromethane  | 0.44   |           | 0.4990    |             | 87.4     | 70       | 130                | 0     | 0        |      |
| Surr: Toluene-d8            | 0.47   |           | 0.4990    |             | 93.8     | 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 range due to dilution or matrix

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

WO#: 2004997 29-Apr-20

| Client:<br>Project:  |   | esource Gro<br>Russa State  | -  |  | re   |  |  |   |                          |                   |      |  |
|--|---|---|--|--|--|--|--|---|--------------------------|-------------------|------|--|
| Sample ID:   | mb-52049  | SampTy  | pe: <b>ME</b>  | BLK  | TestCode: EPA Method 8015D Mod: Gasoline Range |  |  |   |                          |                   |      |  |
| Client ID:   | PBS   | Batch   | ID: <b>52</b>  | 049  | R  | unNo: 68   | 3429   |   |                          |                   |      |  |
| Prep Date:   | 4/23/2020   | Analysis Da   | ite: 4/  | 26/2020  | S  | eqNo: 23   | 867784   | Units: mg/k   | ٤g                       |                   |      |  |
| Analyte  |   | Result  | PQL  | SPK value  | SPK Ref Val                                    | %REC   | LowLimit   | HighLimit   | %RPD                     | RPDLimit          | Qual |  |
| Gasoline Rang<br>Surr: BFB   | ge Organics (GRO)   | ND<br>490   | 5.0  | 500.0  |  | 98.9   | 70   | 130   |                          |                   |      |  |
| Sample ID:   | mple ID: Ics-52049 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range   |   |  |  |  |  |  |   |                          |                   |      |  |
| Client ID:   | LCSS  | R   | unNo: 68   | 3429   |  |  |  |   |                          |                   |      |  |
| Prep Date:   | 4/23/2020   | Analysis Da   | ite: 4/  | 26/2020  | S  | eqNo: 23   | 867785   | Units: <b>mg/#</b>  | ٢g                       |                   |      |  |
| Analyte  |   | Result  | PQL  | SPK value  | SPK Ref Val                                    | %REC   | LowLimit   | HighLimit   | %RPD                     | RPDLimit          | Qual |  |
|  | ge Organics (GRO)   | 24  | 5.0  | 25.00  | 0  | 97.8   | 70   | 130   |                          |                   |      |  |
| Curr DED   |   | E00   |  | E00 0  |  | 100  | 70   | 130   |                          |                   |      |  |
| Surr: BFB  |   | 500   |  | 500.0  |  | 100  | 70   | 130   |                          |                   |      |  |
|  | 2004997-002ams  | SampTy  | pe: <b>MS</b>  |  | Test   |  |  | 8015D Mod:  | Gasoline                 | Range             |      |  |
| Sample ID:   | 2004997-002ams<br>BS20-05 0.5'  | SampTy  | pe: <b>MS</b><br>ID: <b>52</b>   | 5  |  |  | PA Method  |   | Gasoline                 | Range             |      |  |
| Sample ID:   | BS20-05 0.5'  | SampTy  | ID: <b>52</b> (  | S<br>049   | R  | Code: EF   | PA Method<br>3461  |   |                          | Range             |      |  |
| Sample ID:<br>Client ID:   | BS20-05 0.5'  | SampTy<br>Batch   | ID: <b>52</b> (  | 5<br>049<br>27/2020  | R  | Code: EF   | PA Method<br>3461  | 8015D Mod:  |                          | Range<br>RPDLimit | Qual |  |
| Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte  | BS20-05 0.5'  | SampTy<br>Batch<br>Analysis Da  | ID: <b>52</b> 0<br>Ite: <b>4/</b>  | 5<br>049<br>27/2020  | R  | Code: EF   | PA Method<br>3461<br>368924  | 8015D Mod:<br>Units: mg/k   | ζg                       | U                 | Qual |  |
| Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte  | BS20-05 0.5'<br>4/23/2020   | SampTy<br>Batch<br>Analysis Da<br>Result  | ID: <b>52</b><br>ite: <b>4/</b><br>PQL   | 5<br>049<br>27/2020<br>SPK value   | R<br>S<br>SPK Ref Val                          | Code: EF<br>unNo: 68<br>eqNo: 23<br>%REC   | PA Method<br>3461<br>368924<br>LowLimit  | 8015D Mod:<br>Units: <b>mg/k</b><br>HighLimit                                     | ζg                       | U                 | Qual |  |
| Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB  | BS20-05 0.5'<br>4/23/2020   | SampTy<br>Batch<br>Analysis Da<br>Result<br>23<br>490                                     | ID: <b>52</b> (<br>ite: <b>4/</b><br>PQL<br>4.9  | 5<br>049<br>27/2020<br>SPK value<br>24.46<br>489.2                         | R<br>S<br>SPK Ref Val<br>0                     | Code: EF<br>JunNo: 68<br>GeqNo: 23<br>%REC<br>92.5<br>99.1                                       | PA Method<br>3461<br>368924<br>LowLimit<br>70<br>70                                | 8015D Mod:<br>Units: mg/k<br>HighLimit<br>130                                     | <b>(g</b><br>%RPD        | RPDLimit          | Qual |  |
| Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB  | BS20-05 0.5'<br>4/23/2020<br>ge Organics (GRO)                                    | SampTy<br>Batch<br>Analysis Da<br>Result<br>23<br>490<br>I SampTy                         | ID: <b>52</b> (<br>ite: <b>4/</b><br>PQL<br>4.9  | 5<br>049<br>27/2020<br>SPK value<br>24.46<br>489.2                         | R<br>S<br>SPK Ref Val<br>0<br>Test             | Code: EF<br>JunNo: 68<br>GeqNo: 23<br>%REC<br>92.5<br>99.1                                       | PA Method<br>3461<br>368924<br>LowLimit<br>70<br>70<br>PA Method                   | 8015D Mod:<br>Units: mg/k<br>HighLimit<br>130<br>130                              | <b>(g</b><br>%RPD        | RPDLimit          | Qual |  |
| Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID:  | BS20-05 0.5'<br>4/23/2020<br>ge Organics (GRO)<br>2004997-002amsd<br>BS20-05 0.5' | SampTy<br>Batch<br>Analysis Da<br>Result<br>23<br>490<br>I SampTy                         | ID: <b>52</b> 0<br>Ite: <b>4/</b><br>PQL<br>4.9<br>ID: <b>52</b> 0   | 5<br>049<br>27/2020<br>SPK value<br>24.46<br>489.2<br>5D<br>049            | R<br>S<br>SPK Ref Val<br>0<br>Test<br>R        | Code: EF<br>aunNo: 68<br>beqNo: 23<br>%REC<br>92.5<br>99.1<br>Code: EF                           | PA Method<br>3461<br>368924<br>LowLimit<br>70<br>70<br>PA Method<br>3461           | 8015D Mod:<br>Units: mg/k<br>HighLimit<br>130<br>130                              | (g<br>%RPD<br>Gasoline I | RPDLimit          | Qual |  |
| Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID:<br>Client ID:                          | BS20-05 0.5'<br>4/23/2020<br>ge Organics (GRO)<br>2004997-002amsd<br>BS20-05 0.5' | SampTy<br>Batch<br>Analysis Da<br>Result<br>23<br>490<br>SampTy<br>Batch                  | ID: <b>52</b> 0<br>Ite: <b>4/</b><br>PQL<br>4.9<br>ID: <b>52</b> 0   | 5<br>049<br>27/2020<br>SPK value<br>24.46<br>489.2<br>5D<br>049<br>27/2020 | R<br>S<br>SPK Ref Val<br>0<br>Test<br>R        | Code: EF<br>JunNo: 68<br>SeqNo: 23<br>%REC<br>92.5<br>99.1<br>Code: EF<br>JunNo: 68<br>SeqNo: 23 | PA Method<br>3461<br>368924<br>LowLimit<br>70<br>70<br>PA Method<br>3461           | 8015D Mod:<br>Units: mg/k<br>HighLimit<br>130<br>130<br>8015D Mod:                | (g<br>%RPD<br>Gasoline I | RPDLimit          | Qual |  |
| Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte | BS20-05 0.5'<br>4/23/2020<br>ge Organics (GRO)<br>2004997-002amsd<br>BS20-05 0.5' | SampTy<br>Batch<br>Analysis Da<br>Result<br>23<br>490<br>I SampTy<br>Batch<br>Analysis Da | ID: <b>52</b> (<br>tte: <b>4</b> /<br><u>PQL</u><br>4.9<br>Pe: <b>MS</b><br>ID: <b>52</b> (<br>tte: <b>4</b> / | 5<br>049<br>27/2020<br>SPK value<br>24.46<br>489.2<br>5D<br>049<br>27/2020 | R<br>S<br>SPK Ref Val<br>0<br>Test<br>R<br>S   | Code: EF<br>JunNo: 68<br>SeqNo: 23<br>%REC<br>92.5<br>99.1<br>Code: EF<br>JunNo: 68<br>SeqNo: 23 | PA Method<br>3461<br>368924<br>LowLimit<br>70<br>70<br>PA Method<br>3461<br>368925 | 8015D Mod:<br>Units: mg/k<br>HighLimit<br>130<br>130<br>8015D Mod:<br>Units: mg/k | Kg<br>%RPD<br>Gasoline I | RPDLimit          |      |  |

#### 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
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- B Analyte detected in the associated Method Blank
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2004997

29-Apr-20

WO#:

| Page | <i>102</i> | of 134 |
|------|------------|--------|
|      |            |        |

| HALL<br>ENVIRONME<br>ANALYSIS<br>LABORATOR          | Hall Environment<br>Ai<br>TEL: 505-345-39<br>Website: www.   | 490<br>buquero<br>75 FAX: | )1 Hawkins N<br>nue, NM 8710<br>505-345-410 | 7E<br>99 San<br>97 | Page<br>Sample Log-In Check List |  |     |  |  |
|---|--|---------------------------|---|--------------------|----------------------------------|--|-----|--|--|
| Client Name: VERT                                   | EX CARLSBAD  | Work Order Numbe          | er: 200                                     | 4997               |                                  | RcptNo: 1                                    |     |  |  |
| Received By: Juan                                   | Rojas  | 4/23/2020 9:40:00 A       | м   |                    | Junia                            |  |     |  |  |
| Completed By: Isaia                                 | n Ortiz  | 4/23/2020 8:49:48 Al      | м   |                    | Junnang)                         | 4  |     |  |  |
| Reviewed By: JQ                                     | 1/23/20  |                           |   |                    |                                  | 101  |     |  |  |
| Chain of Custody                                    |  |                           |   |                    |                                  |  |     |  |  |
| 1. Is Chain of Custody s                            | ufficiently complete   | ?                         | Yes   | ~                  | No 🗌                             | Not Present                                  |     |  |  |
| 2. How was the sample                               | delivered?   |                           | Cou   | rier               |                                  |  |     |  |  |
| Log In  |  |                           |   |                    |                                  |  |     |  |  |
| 3. Was an attempt mad                               | e to cool the sample   | s?                        | Yes   |                    | No 🗌                             |  |     |  |  |
| 4. Were all samples rec                             | eived at a temperatu   | re of >0° C to 6.0°C      | Yes   |                    | No 🗌                             |  |     |  |  |
| 5. Sample(s) in proper c                            | ontainer(s)?   |                           | Yes   |                    | No 🗌                             |  |     |  |  |
| 6. Sufficient sample volu                           | me for indicated tes   | t(s)?                     | Yes   |                    | No 🗌                             |  |     |  |  |
| 7. Are samples (except)                             | /OA and ONG) prop  | erly preserved?           | Yes   |                    | No 🗌                             |  |     |  |  |
| 8. Was preservative add                             | ed to bottles?   |                           | Yes   |                    | No 🗹                             | NA 🗌   |     |  |  |
| 9. Received at least 1 vi                           | al with headspace <  | 1/4" for AQ VOA?          | Yes   |                    | No 🗌                             |  | 7   |  |  |
| 10. Were any sample cor                             |  |                           | Yes   |                    | No 🔽                             |  |     |  |  |
| 11. Does paperwork matc                             | h bottle labels?   |                           | Yes   |                    | No 🗌                             | # of preserved<br>bottles checked<br>for pH: |     |  |  |
| (Note discrepancies o<br>12. Are matrices correctly |  | of Quetodu?               |   |                    | No 🗔                             | (<2 of >12 unless note<br>Adjusted?          | 3a) |  |  |
| 13. Is it clear what analys                         |  | of Custody?               | Yes<br>Yes                                  |                    | No 🗌                             |  |     |  |  |
| 14. Were all holding times                          |  |                           | Yes   |                    |                                  | Checked by: 9M 4 23                          | ŀ   |  |  |
| (If no, notify customer                             |  |                           | 103   |                    |                                  |  | 1   |  |  |
| Special Handling (if                                | applicable)  |                           |   |                    |                                  | 1  |     |  |  |
| 15. Was client notified of                          | all discrepancies wit  | h this order?             | Yes   |                    | No 🗌                             | NA 🗹   |     |  |  |
| Person Notified                                     |  | Date:                     | -   |                    |                                  |  |     |  |  |
| By Whom:  | 1  | Via:                      | eM  | ail 🗌 Pho          | ne 🗌 Fax                         | In Person                                    |     |  |  |
| Regarding:  | T  |                           |   |                    |                                  |  |     |  |  |
| Client Instruction                                  | ns:  |                           |   |                    |                                  |  |     |  |  |
| 16. Additional remarks:                             |  |                           |   |                    |                                  |  |     |  |  |
| 17. <u>Cooler Information</u><br>Cooler No Tem      | p °C Condition   | Seal Intact Seal No       | Seal D                                      | ato Si             | anod Pu                          |  |     |  |  |
| 1 0.2   |  | Not Present               | Seal D                                      | ale SI             | gned By                          |  |     |  |  |
| 2 3.3   | and the second | lot Present               |   |                    |                                  |  |     |  |  |

Page 1 of 1

| ENTAL<br>ENTAL                           |                           |                       | /20               | 221              | :28            |                | M                         |                         |               | 4                          |                                    |          | 0.90    |           |         |         |        |        |         |         |         | 24.0         | 1000 |                 | <del>e 103 of</del>        |
|--|---------------------------|-----------------------|-------------------|------------------|----------------|----------------|---------------------------|-------------------------|---------------|----------------------------|------------------------------------|----------|---------|-----------|---------|---------|--------|--------|---------|---------|---------|--------------|------|-----------------|----------------------------|
| HALL ENVIRONMENTAL<br>ANALYSIS LABORATOR | www.hallenvironmental.com | Albuquerque, NM 87109 | Fax 505-345-4107  | Analysis Request | (tu            | əsdA           | tnə                       |                         | 0             | -imə                       | 8260 (V<br>8270 (S<br>Total Cc     |          |         |           |         |         |        |        |         |         |         |              |      | li condon       | Ladar                      |
| ALL EN                                   | ww.hallenvii              | - 1                   |                   | Analys           | *O*            |                |                           |                         | elst          | эM                         | РАНs by<br>В АЯСКА 8<br>В , न , В  | 5        | >       | 1         | >       | 5       | 7      | >      | 5       | 5       | 2       | 2            |      | Netal           | Z                          |
| H  | <br>                      | 4901 Hawkins NE       | Tel. 505-345-3975 | 144              | 1              |                | (                         | (1.40                   | g p           | oqtə                       | ed 1808<br>8081 Pe                 | N I I    |         |           |         |         |        |        |         |         |         |              | _    |                 |                            |
|  |                           | 49                    | Te                | ,<br>(*          |                | .208)<br>AM \  |                           | 1.10                    |               |                            | TPH:80                             | 5        | 1       | ~~        | 5       | 5       | へく     | 5      | 5       | ンン      | 5       | 7            | -    | Kemarks:        |                            |
| Dery                                     | State Contal              |                       |                   | 59               |                | Jop            |                           | No                      |               | 7-0-5.2 (°C)               | 3.3-05 3.5<br>HEAL No.<br>20004997 | 100-     | 100-    | -003      | -00 4   | -00S    | -006   | -007   | -008    | -004    | - 010   | -011         |      | y/22/2e 1300    | Date Time<br>4/23/70 9: UO |
| Time:                                    | nussa                     | sture)                |                   | -00239           | ger:           | li Chorde      |                           | d f w                   | 100           | 0                          | Preservative<br>Type               | ice      |         |           |         |         |        |        |         | ÷       |         | 7            |      | VIA:            | Via:<br>16UN ler           |
| Turr Around Time:                        | Project Name:             | (Pas                  | Project #:        | 30E.             | Project Manage | Natali         |                           | Campler: 1              | # of Coolers: | Cooler Temp(including CP): | Container<br>Type and #            | 405      |         |           |         |         |        |        |         |         |         | 4            |      | Received by:    | Received by:               |
| 1  | N. V                      |                       |                   |                  |                |                | alidation                 | N. M.                   |               |                            |                                    | 0.51     | 0.5'    | 2'        | 2       | 3,      | 0-0.5' | 0-0.5' | 0-2'    | 0-2'    | n-2'    | 0.0.5        |      | $\checkmark$    |                            |
| Chain-of-Custody Record                  | dur                       | HilC                  |                   | 140              | 3              | VIII-14 (F-14) | Level 4 (ruil validation) | Az Compliance     Other |               |                            | Sample Name                        | B520-04  | BS20-05 | 3520-0628 | 10-0253 | BS20-08 | 2.2.2  |        | 20-062m | ro-resm | W520-08 | M530-09      | Q    | A Sharp         | ed by:                     |
| -of-Cu                                   | 2                         | - UOs                 | Constantion -     | ~                | - l-y          |                |                           | □ Az Col                |               | 1.1940                     | Matrix                             | 1:05     |         |           |         |         |        |        |         |         |         | $\mathbb{A}$ |      | Relinquished by | Relinquished by:           |
| Client: VON                              | latalie                   | Mailing Address:      |                   | Phone #:         | email or Fax#: | QA/QC Package: |                           | Accreditation:          | EDD (Tvpe)    |                            | e Time                             | 21/11/18 | 10:55   | 12:05     | 51:61   | 56:61   | 9:50   | 10:00  | 10:16   | 10:00   | 10:30   | 01:01        |      | : Time:         | T of                       |
| eleased to I                             |                           |                       | 124               |                  |                |                |                           |                         |               |                            | Date                               | 1        |         |           |         |         |        |        |         |         |         | P            |      | Date            | Date                       |



April 29, 2020

Natalie Gordon Vertex Resource Group Ltd. 213 S. Mesa St Carlsbad, NM 88220 TEL: (505) 506-0040 FAX

RE: Tony La Russa State Com 201H Pad

OrderNo.: 2004999

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/23/2020 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 Resource Group Ltd.

2004999-001

**Analytical Report** Lab Order 2004999

Date Reported: 4/29/2020

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pad

Client Sample ID: BS20-01 0.5' Collection Date: 4/21/2020 11:15:00 AM Received Date: 4/23/2020 9:40:00 AM

| Analyses                               | Result | RL Qu    | al Units | DF | Date Analyzed         |
|--|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG   | ANICS  |          |          |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)            | ND     | 9.4      | mg/Kg    | 1  | 4/24/2020 10:41:10 AM |
| Motor Oil Range Organics (MRO)         | ND     | 47       | mg/Kg    | 1  | 4/24/2020 10:41:10 AM |
| Surr: DNOP                             | 66.5   | 55.1-146 | %Rec     | 1  | 4/24/2020 10:41:10 AM |
| EPA METHOD 300.0: ANIONS               |        |          |          |    | Analyst: <b>JMT</b>   |
| Chloride                               | 200    | 60       | mg/Kg    | 20 | 4/27/2020 2:31:23 AM  |
| EPA METHOD 8260B: VOLATILES SHORT LIST | Г      |          |          |    | Analyst: JMR          |
| Benzene                                | ND     | 0.024    | mg/Kg    | 1  | 4/27/2020 9:27:24 PM  |
| Toluene                                | ND     | 0.049    | mg/Kg    | 1  | 4/27/2020 9:27:24 PM  |
| Ethylbenzene                           | ND     | 0.049    | mg/Kg    | 1  | 4/27/2020 9:27:24 PM  |
| Xylenes, Total                         | ND     | 0.097    | mg/Kg    | 1  | 4/27/2020 9:27:24 PM  |
| Surr: 1,2-Dichloroethane-d4            | 79.1   | 70-130   | %Rec     | 1  | 4/27/2020 9:27:24 PM  |
| Surr: 4-Bromofluorobenzene             | 96.5   | 70-130   | %Rec     | 1  | 4/27/2020 9:27:24 PM  |
| Surr: Dibromofluoromethane             | 88.0   | 70-130   | %Rec     | 1  | 4/27/2020 9:27:24 PM  |
| Surr: Toluene-d8                       | 99.0   | 70-130   | %Rec     | 1  | 4/27/2020 9:27:24 PM  |
| EPA METHOD 8015D MOD: GASOLINE RANGE   | 1      |          |          |    | Analyst: JMR          |
| Gasoline Range Organics (GRO)          | ND     | 4.9      | mg/Kg    | 1  | 4/27/2020 9:27:24 PM  |
| Surr: BFB                              | 98.3   | 70-130   | %Rec     | 1  | 4/27/2020 9:27:24 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 range due to dilution or matrix S

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

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Lab ID:

CLIENT: Vertex Resource Group Ltd.

2004999-002

Analytical Report
Lab Order 2004999

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pad

Date Reported: 4/29/2020 Client Sample ID: BS20-02 0.5' Collection Date: 4/21/2020 11:25:00 AM

Received Date: 4/23/2020 9:40:00 AM

| Analyses                               | Result | RL Q     | ual Units | DF | Date Analyzed         |
|--|--------|----------|-----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGAN | NICS   |          |           |    | Analyst: JME          |
| Diesel Range Organics (DRO)            | ND     | 9.7      | mg/Kg     | 1  | 4/24/2020 11:05:09 AM |
| Motor Oil Range Organics (MRO)         | ND     | 48       | mg/Kg     | 1  | 4/24/2020 11:05:09 AM |
| Surr: DNOP                             | 102    | 55.1-146 | %Rec      | 1  | 4/24/2020 11:05:09 AM |
| EPA METHOD 300.0: ANIONS               |        |          |           |    | Analyst: JMT          |
| Chloride                               | 790    | 60       | mg/Kg     | 20 | 4/27/2020 3:33:27 AM  |
| EPA METHOD 8260B: VOLATILES SHORT LIST |        |          |           |    | Analyst: JMR          |
| Benzene                                | ND     | 0.025    | mg/Kg     | 1  | 4/27/2020 9:56:01 PM  |
| Toluene                                | ND     | 0.049    | mg/Kg     | 1  | 4/27/2020 9:56:01 PM  |
| Ethylbenzene                           | ND     | 0.049    | mg/Kg     | 1  | 4/27/2020 9:56:01 PM  |
| Xylenes, Total                         | ND     | 0.098    | mg/Kg     | 1  | 4/27/2020 9:56:01 PM  |
| Surr: 1,2-Dichloroethane-d4            | 80.0   | 70-130   | %Rec      | 1  | 4/27/2020 9:56:01 PM  |
| Surr: 4-Bromofluorobenzene             | 95.7   | 70-130   | %Rec      | 1  | 4/27/2020 9:56:01 PM  |
| Surr: Dibromofluoromethane             | 89.3   | 70-130   | %Rec      | 1  | 4/27/2020 9:56:01 PM  |
| Surr: Toluene-d8                       | 98.1   | 70-130   | %Rec      | 1  | 4/27/2020 9:56:01 PM  |
| EPA METHOD 8015D MOD: GASOLINE RANGE   |        |          |           |    | Analyst: JMR          |
| Gasoline Range Organics (GRO)          | ND     | 4.9      | mg/Kg     | 1  | 4/27/2020 9:56:01 PM  |
| Surr: BFB                              | 99.3   | 70-130   | %Rec      | 1  | 4/27/2020 9:56:01 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
- 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

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

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CLIENT: Vertex Resource Group Ltd.

**Analytical Report** Lab Order 2004999

Date Reported: 4/29/2020

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pad

Client Sample ID: BS20-03 0.5' Collection Date: 4/21/2020 11:35:00 AM Received Date: 4/23/2020 9:40:00 AM

| Lab ID: 2004999-003            | Matrix: SOIL | Rece     | ived Date: | 4/23/2 | 020 9:40:00 AM        |
|--------------------------------|--------------|----------|------------|--------|-----------------------|
| Analyses                       | Result       | RL Qua   | al Units   | DF     | Date Analyzed         |
| EPA METHOD 8015M/D: DIESEL RA  | NGE ORGANICS |          |            |        | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)    | ND           | 9.7      | mg/Kg      | 1      | 4/24/2020 2:17:23 PM  |
| Motor Oil Range Organics (MRO) | ND           | 48       | mg/Kg      | 1      | 4/24/2020 2:17:23 PM  |
| Surr: DNOP                     | 98.7         | 55.1-146 | %Rec       | 1      | 4/24/2020 2:17:23 PM  |
| EPA METHOD 300.0: ANIONS       |              |          |            |        | Analyst: JMT          |
| Chloride                       | 230          | 60       | mg/Kg      | 20     | 4/27/2020 3:45:51 AM  |
| EPA METHOD 8260B: VOLATILES S  | HORT LIST    |          |            |        | Analyst: JMR          |
| Benzene                        | ND           | 0.025    | mg/Kg      | 1      | 4/27/2020 10:24:46 PM |
| Toluene                        | ND           | 0.049    | mg/Kg      | 1      | 4/27/2020 10:24:46 PM |
| Ethylbenzene                   | ND           | 0.049    | mg/Kg      | 1      | 4/27/2020 10:24:46 PM |
| Xylenes, Total                 | ND           | 0.098    | mg/Kg      | 1      | 4/27/2020 10:24:46 PM |
| Surr: 1,2-Dichloroethane-d4    | 79.5         | 70-130   | %Rec       | 1      | 4/27/2020 10:24:46 PM |
| Surr: 4-Bromofluorobenzene     | 98.4         | 70-130   | %Rec       | 1      | 4/27/2020 10:24:46 PM |
| Surr: Dibromofluoromethane     | 87.5         | 70-130   | %Rec       | 1      | 4/27/2020 10:24:46 PM |
| Surr: Toluene-d8               | 98.4         | 70-130   | %Rec       | 1      | 4/27/2020 10:24:46 PM |
| EPA METHOD 8015D MOD: GASOLI   | NE RANGE     |          |            |        | Analyst: JMR          |
| Gasoline Range Organics (GRO)  | ND           | 4.9      | mg/Kg      | 1      | 4/27/2020 10:24:46 PM |
| Surr: BFB                      | 99.2         | 70-130   | %Rec       | 1      | 4/27/2020 10:24:46 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 range due to dilution or matrix S

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

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Lab ID:

CLIENT: Vertex Resource Group Ltd.

2004999-004

Analytical Report
Lab Order 2004999

## Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pad

Date Reported: 4/29/2020 Client Sample ID: WS20-01 0-0.5' Collection Date: 4/21/2020 11:00:00 AM

Received Date: 4/23/2020 9:40:00 AM

| Analyses                               | Result | RL Qua   | al Units | DF | Date Analyzed        |
|--|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA  | NICS   |          |          |    | Analyst: <b>JME</b>  |
| Diesel Range Organics (DRO)            | ND     | 9.5      | mg/Kg    | 1  | 4/24/2020 2:41:35 PM |
| Motor Oil Range Organics (MRO)         | ND     | 47       | mg/Kg    | 1  | 4/24/2020 2:41:35 PM |
| Surr: DNOP                             | 108    | 55.1-146 | %Rec     | 1  | 4/24/2020 2:41:35 PM |
| EPA METHOD 300.0: ANIONS               |        |          |          |    | Analyst: <b>JMT</b>  |
| Chloride                               | 380    | 60       | mg/Kg    | 20 | 4/27/2020 3:58:16 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST |        |          |          |    | Analyst: JMR         |
| Benzene                                | ND     | 0.025    | mg/Kg    | 1  | 4/28/2020 2:14:57 AM |
| Toluene                                | ND     | 0.049    | mg/Kg    | 1  | 4/28/2020 2:14:57 AM |
| Ethylbenzene                           | ND     | 0.049    | mg/Kg    | 1  | 4/28/2020 2:14:57 AM |
| Xylenes, Total                         | ND     | 0.099    | mg/Kg    | 1  | 4/28/2020 2:14:57 AM |
| Surr: 1,2-Dichloroethane-d4            | 78.2   | 70-130   | %Rec     | 1  | 4/28/2020 2:14:57 AM |
| Surr: 4-Bromofluorobenzene             | 97.9   | 70-130   | %Rec     | 1  | 4/28/2020 2:14:57 AM |
| Surr: Dibromofluoromethane             | 87.7   | 70-130   | %Rec     | 1  | 4/28/2020 2:14:57 AM |
| Surr: Toluene-d8                       | 99.1   | 70-130   | %Rec     | 1  | 4/28/2020 2:14:57 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE   |        |          |          |    | Analyst: JMR         |
| Gasoline Range Organics (GRO)          | ND     | 4.9      | mg/Kg    | 1  | 4/28/2020 2:14:57 AM |
| Surr: BFB                              | 102    | 70-130   | %Rec     | 1  | 4/28/2020 2:14:57 AM |

Matrix: SOIL

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

**Qualifiers:** 

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- P Sample pH Not In Range
- RL Reporting Limit

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CLIENT: Vertex Resource Group Ltd.

Gasoline Range Organics (GRO)

Surr: BFB

Project: Tony La Russa State Com 201H Pad

Analytical Report
Lab Order 2004999

Date Reported: 4/29/2020

4/28/2020 2:43:53 AM

4/28/2020 2:43:53 AM

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS20-02 0-0.5' Collection Date: 4/21/2020 9:30:00 AM

| Lab ID: 2004999-005             | Matrix: SOIL | Rece     | ived Date: | 4/23/2 | 020 9:40:00 AM       |
|---------------------------------|--------------|----------|------------|--------|----------------------|
| Analyses                        | Result       | RL Qu    | al Units   | DF     | Date Analyzed        |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS   |          |            |        | Analyst: JME         |
| Diesel Range Organics (DRO)     | ND           | 9.3      | mg/Kg      | 1      | 4/24/2020 3:05:38 PM |
| Motor Oil Range Organics (MRO)  | ND           | 47       | mg/Kg      | 1      | 4/24/2020 3:05:38 PM |
| Surr: DNOP                      | 114          | 55.1-146 | %Rec       | 1      | 4/24/2020 3:05:38 PM |
| EPA METHOD 300.0: ANIONS        |              |          |            |        | Analyst: JMT         |
| Chloride                        | 330          | 60       | mg/Kg      | 20     | 4/27/2020 4:10:40 AM |
| EPA METHOD 8260B: VOLATILES SHO | ORT LIST     |          |            |        | Analyst: JMR         |
| Benzene                         | ND           | 0.024    | mg/Kg      | 1      | 4/28/2020 2:43:53 AM |
| Toluene                         | ND           | 0.048    | mg/Kg      | 1      | 4/28/2020 2:43:53 AM |
| Ethylbenzene                    | ND           | 0.048    | mg/Kg      | 1      | 4/28/2020 2:43:53 AM |
| Xylenes, Total                  | ND           | 0.095    | mg/Kg      | 1      | 4/28/2020 2:43:53 AM |
| Surr: 1,2-Dichloroethane-d4     | 77.7         | 70-130   | %Rec       | 1      | 4/28/2020 2:43:53 AM |
| Surr: 4-Bromofluorobenzene      | 97.0         | 70-130   | %Rec       | 1      | 4/28/2020 2:43:53 AM |
| Surr: Dibromofluoromethane      | 88.4         | 70-130   | %Rec       | 1      | 4/28/2020 2:43:53 AM |
| Surr: Toluene-d8                | 99.4         | 70-130   | %Rec       | 1      | 4/28/2020 2:43:53 AM |
| EPA METHOD 8015D MOD: GASOLINE  | RANGE        |          |            |        | Analyst: JMR         |

ND

98.4

4.8

70-130

mg/Kg

%Rec

1

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

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

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CLIENT: Vertex Resource Group Ltd.

**Analytical Report** Lab Order 2004999

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/29/2020 Client Sample ID: WS20-03 0-0.5' Collection Date: 4/21/2020 9:40:00 AM

| Project: | Tony La Russa State Com 20 | )1H Pad      | Colle    | ction Date: | 4/21/2 | 020 9:40:00 AM       |
|----------|----------------------------|--------------|----------|-------------|--------|----------------------|
| Lab ID:  | 2004999-006                | Matrix: SOIL | Rece     | eived Date: | 4/23/2 | 020 9:40:00 AM       |
| Analyses |                            | Result       | RL Qu    | al Units    | DF     | Date Analyzed        |
| EPA ME   | THOD 8015M/D: DIESEL RAN   | IGE ORGANICS |          |             |        | Analyst: <b>JME</b>  |
| Diesel R | ange Organics (DRO)        | ND           | 9.4      | mg/Kg       | 1      | 4/24/2020 3:29:45 PM |
| Motor O  | il Range Organics (MRO)    | ND           | 47       | mg/Kg       | 1      | 4/24/2020 3:29:45 PM |
| Surr:    | DNOP                       | 69.2         | 55.1-146 | %Rec        | 1      | 4/24/2020 3:29:45 PM |
| EPA ME   | THOD 300.0: ANIONS         |              |          |             |        | Analyst: <b>JMT</b>  |
| Chloride |                            | 250          | 60       | mg/Kg       | 20     | 4/27/2020 4:23:04 AM |
| EPA ME   | THOD 8260B: VOLATILES SH   | IORT LIST    |          |             |        | Analyst: JMR         |
| Benzene  | 9                          | ND           | 0.024    | mg/Kg       | 1      | 4/28/2020 3:12:47 AM |
| Toluene  |                            | ND           | 0.049    | mg/Kg       | 1      | 4/28/2020 3:12:47 AM |
| Ethylber | izene                      | ND           | 0.049    | mg/Kg       | 1      | 4/28/2020 3:12:47 AM |
| Xylenes, | Total                      | ND           | 0.097    | mg/Kg       | 1      | 4/28/2020 3:12:47 AM |
| Surr:    | 1,2-Dichloroethane-d4      | 78.3         | 70-130   | %Rec        | 1      | 4/28/2020 3:12:47 AM |
| Surr: 4  | 4-Bromofluorobenzene       | 95.7         | 70-130   | %Rec        | 1      | 4/28/2020 3:12:47 AM |
| Surr:    | Dibromofluoromethane       | 88.2         | 70-130   | %Rec        | 1      | 4/28/2020 3:12:47 AM |
| Surr:    | Toluene-d8                 | 98.3         | 70-130   | %Rec        | 1      | 4/28/2020 3:12:47 AM |
| EPA ME   | THOD 8015D MOD: GASOLIN    | IE RANGE     |          |             |        | Analyst: JMR         |
| Gasoline | e Range Organics (GRO)     | ND           | 4.9      | mg/Kg       | 1      | 4/28/2020 3:12:47 AM |
| Surr:    | BFB                        | 97.8         | 70-130   | %Rec        | 1      | 4/28/2020 3:12:47 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 range due to dilution or matrix S

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

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**Project:** 

Lab ID:

CLIENT: Vertex Resource Group Ltd.

2004999-007

**Analytical Report** Lab Order 2004999

Date Reported: 4/29/2020

# Hall Environmental Analysis Laboratory, Inc.

Tony La Russa State Com 201H Pad

Client Sample ID: WS20-10 0-0.5' Collection Date: 4/21/2020 10:50:00 AM

Received Date: 4/23/2020 9:40:00 AM

| Analyses                              | Result | RL Qu    | al Units | DF | Date Analyzed        |
|---------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG  | ANICS  |          |          |    | Analyst: <b>JME</b>  |
| Diesel Range Organics (DRO)           | ND     | 9.4      | mg/Kg    | 1  | 4/24/2020 3:53:55 PM |
| Motor Oil Range Organics (MRO)        | ND     | 47       | mg/Kg    | 1  | 4/24/2020 3:53:55 PM |
| Surr: DNOP                            | 99.6   | 55.1-146 | %Rec     | 1  | 4/24/2020 3:53:55 PM |
| EPA METHOD 300.0: ANIONS              |        |          |          |    | Analyst: JMT         |
| Chloride                              | 1800   | 60       | mg/Kg    | 20 | 4/27/2020 4:35:29 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIS | т      |          |          |    | Analyst: JMR         |
| Benzene                               | ND     | 0.025    | mg/Kg    | 1  | 4/28/2020 3:41:38 AM |
| Toluene                               | ND     | 0.050    | mg/Kg    | 1  | 4/28/2020 3:41:38 AM |
| Ethylbenzene                          | ND     | 0.050    | mg/Kg    | 1  | 4/28/2020 3:41:38 AM |
| Xylenes, Total                        | ND     | 0.099    | mg/Kg    | 1  | 4/28/2020 3:41:38 AM |
| Surr: 1,2-Dichloroethane-d4           | 77.5   | 70-130   | %Rec     | 1  | 4/28/2020 3:41:38 AM |
| Surr: 4-Bromofluorobenzene            | 99.7   | 70-130   | %Rec     | 1  | 4/28/2020 3:41:38 AM |
| Surr: Dibromofluoromethane            | 87.3   | 70-130   | %Rec     | 1  | 4/28/2020 3:41:38 AM |
| Surr: Toluene-d8                      | 97.3   | 70-130   | %Rec     | 1  | 4/28/2020 3:41:38 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE  | E      |          |          |    | Analyst: <b>JMR</b>  |
| Gasoline Range Organics (GRO)         | ND     | 5.0      | mg/Kg    | 1  | 4/28/2020 3:41:38 AM |
| Surr: BFB                             | 99.7   | 70-130   | %Rec     | 1  | 4/28/2020 3:41:38 AM |

Matrix: SOIL

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

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- н
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- PQL Practical Quanitative Limit
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- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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|                      | x Resource Group Ltc<br>La Russa State Com 2 |           |             |                  |          |              |      |          |      |
|----------------------|--|-----------|-------------|------------------|----------|--------------|------|----------|------|
| Sample ID: MB-52092  | SampType: mb                                 | olk       | Tes         | tCode: EP        | A Method | 300.0: Anion | S    |          |      |
| Client ID: PBS       | Batch ID: 520                                | 092       | F           | RunNo: <b>68</b> | 8439     |              |      |          |      |
| Prep Date: 4/26/2020 | Analysis Date: 4/2                           | 26/2020   | S           | SeqNo: 23        | 68151    | 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-52092 | SampType: Ics                                |           | Tes         | tCode: EP        | A Method | 300.0: Anion | s    |          |      |
| Client ID: LCSS      | Batch ID: 520                                | 092       | F           | RunNo: <b>68</b> | 8439     |              |      |          |      |
| Prep Date: 4/26/2020 | Analysis Date: 4/2                           | 27/2020   | S           | SeqNo: 23        | 68152    | 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           | 94.0             | 90       | 110          |      |          |      |

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2004999

29-Apr-20

| Client: Vertex F               | Vertex Resource Group Ltd. |   |           |             |           |           |                    |            |            |      |  |
|--------------------------------|----------------------------|---|-----------|-------------|-----------|-----------|--------------------|------------|------------|------|--|
| <b>Project:</b> Tony La        | Russa Stat                 | e Com   | 201H Pad  |             |           |           |                    |            |            |      |  |
| Sample ID: MB-52057            | SampT                      | ype: ME   | BLK       | Tes         | tCode: El | PA Method | 8015M/D: Die       | esel Range | e Organics |      |  |
| Client ID: PBS                 | Batc                       | Batch ID: 52057 RunNo: 68394                    |           |             |           |           |                    |            |            |      |  |
| Prep Date: 4/23/2020           | Analysis E                 | sis Date: 4/24/2020 SeqNo: 2366388 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                     | 11                         |   | 10.00     |             | 113       | 55.1      | 146                |            |            |      |  |
| Sample ID: LCS-52057           | SampT                      | ype: LC   | s         | Tes         | tCode: El | PA Method | 8015M/D: Die       | esel Range | e Organics |      |  |
| Client ID: LCSS                | Batcl                      | h ID: 52  | 057       | F           | RunNo: 6  | 8394      |                    |            |            |      |  |
| Prep Date: 4/23/2020           | Analysis E                 | Date: 4/  | 24/2020   | 5           | SeqNo: 2  | 366390    | Units: <b>mg/K</b> | g          |            |      |  |
| Analyte                        | Result                     | PQL   | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit          | %RPD       | RPDLimit   | Qual |  |
| Diesel Range Organics (DRO)    | 65                         | 10  | 50.00     | 0           | 129       | 70        | 130                |            |            |      |  |
| Surr: DNOP                     | 6.5                        |   | 5.000     |             | 129       | 55.1      | 146                |            |            |      |  |

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- P Sample pH Not In Range
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2004999

29-Apr-20

WO#:

Date

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

|   | Resource G  | -  |   |                                      |  |  |  |            |                         |      |
|---|---|--|---|--------------------------------------|--|--|--|------------|-------------------------|------|
| Project: Tony La  | a Russa Stat  | e Com 2  | 201H Pad  |                                      |  |  |  |            |                         |      |
| Sample ID: mb-52049   | SampT   | Гуре: <b>МЕ</b>  | BLK   | Test                                 | Code: El   | PA Method  | 8260B: Volat   | iles Short | List                    |      |
| Client ID: PBS  | Batcl   | h ID: 52   | 049   | R                                    | unNo: 6  | 8429   |  |            |                         |      |
| Prep Date: 4/23/2020  | Analysis D  | Date: 4/   | 26/2020   | S                                    | SeqNo: 2367765   |  |  | 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: 1,2-Dichloroethane-d4   | 0.42  |  | 0.5000  |                                      | 84.5   | 70   | 130  |            |                         |      |
| Surr: 4-Bromofluorobenzene  | 0.49  |  | 0.5000  |                                      | 98.2   | 70   | 130  |            |                         |      |
| Surr: Dibromofluoromethane  | 0.47  |  | 0.5000  |                                      | 94.8   | 70   | 130  |            |                         |      |
| Surr: Toluene-d8  | 0.49  |  | 0.5000  |                                      | 98.4   | 70   | 130  |            |                         |      |
| Sample ID: Las 52040  | SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List      |  |   |                                      |  |  |  |            |                         |      |
| Sample ID: Ics-52049  | Sampl   | Гуре: <b>LC</b>  | S   | Batch ID: 52049 RunNo: 68429         |  |  |  |            |                         |      |
| Client ID: LCSS   |   |  |   |                                      |  |  | 8260B: Volat   | lies Short | List                    |      |
|   |   | h ID: 52   | 049   | R                                    |  | 8429   | 8260B: Volat   |            | List                    |      |
| Client ID: LCSS   | Batcl   | h ID: 52   | 049<br>26/2020  | R                                    | unNo: 6  | 8429   |  |            | <b>List</b><br>RPDLimit | Qual |
| Client ID: LCSS<br>Prep Date: 4/23/2020   | Batcl<br>Analysis D   | h ID: 52<br>Date: 4/   | 049<br>26/2020  | R                                    | unNo: <b>6</b><br>eqNo: <b>2</b>   | 3429<br>367766   | Units: mg/K  | g          |                         | Qual |
| Client ID: LCSS<br>Prep Date: 4/23/2020<br>Analyte  | Batcl<br>Analysis D<br>Result                                       | h ID: <b>52</b> 0<br>Date: <b>4/</b><br>PQL                                  | 049<br>26/2020<br>SPK value   | R<br>S<br>SPK Ref Val                | unNo: 6<br>eqNo: 2<br>%REC   | 8429<br>367766<br>LowLimit   | Units: <b>mg/K</b><br>HighLimit                                    | g          |                         | Qual |
| Client ID: LCSS<br>Prep Date: 4/23/2020<br>Analyte<br>Benzene   | Batcl<br>Analysis D<br>Result<br>0.85                               | h ID: <b>52</b><br>Date: <b>4/</b><br>PQL<br>0.025                           | 049<br>26/2020<br>SPK value<br>1.000                                    | R<br>S<br>SPK Ref Val<br>0           | tunNo: 68<br>6eqNo: 23<br>%REC<br>85.3                                     | <b>3429</b><br>367766<br>LowLimit<br>70                                      | Units: <b>mg/K</b><br>HighLimit<br>130                             | g          |                         | Qual |
| Client ID: LCSS<br>Prep Date: 4/23/2020<br>Analyte<br>Benzene<br>Toluene  | Batcl<br>Analysis D<br>Result<br>0.85<br>0.98                       | h ID: <b>52</b><br>Date: <b>4</b> /<br>PQL<br>0.025<br>0.050                 | 049<br>26/2020<br>SPK value<br>1.000<br>1.000                           | R<br>S<br>SPK Ref Val<br>0<br>0      | tunNo: 66<br>6eqNo: 23<br>%REC<br>85.3<br>97.9                             | 8429<br>367766<br>LowLimit<br>70<br>70                                       | Units: <b>mg/K</b><br>HighLimit<br>130<br>130                      | g          |                         | Qual |
| Client ID: LCSS<br>Prep Date: 4/23/2020<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene  | Batcl<br>Analysis E<br>Result<br>0.85<br>0.98<br>1.0                | h ID: <b>52</b><br>Date: <b>4</b> /<br><u>PQL</u><br>0.025<br>0.050<br>0.050 | 049<br>26/2020<br>SPK value<br>1.000<br>1.000<br>1.000                  | R<br>S<br>SPK Ref Val<br>0<br>0<br>0 | unNo: 6<br>eqNo: 2<br><u>%REC</u><br>85.3<br>97.9<br>104                   | <b>3429</b><br><b>367766</b><br>LowLimit<br>70<br>70<br>70                   | Units: <b>mg/K</b><br>HighLimit<br>130<br>130<br>130               | g          |                         | Qual |
| Client ID: LCSS<br>Prep Date: 4/23/2020<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total                                | Batch<br>Analysis D<br>Result<br>0.85<br>0.98<br>1.0<br>3.1         | h ID: <b>52</b><br>Date: <b>4</b> /<br><u>PQL</u><br>0.025<br>0.050<br>0.050 | 049<br>26/2020<br>SPK value<br>1.000<br>1.000<br>1.000<br>3.000         | R<br>S<br>SPK Ref Val<br>0<br>0<br>0 | eunNo: 6<br>6<br>7<br>8<br>7<br>8<br>5<br>.3<br>9<br>7<br>.9<br>104<br>103 | <b>3429</b><br><b>367766</b><br>LowLimit<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          |                         | Qual |
| Client ID: LCSS<br>Prep Date: 4/23/2020<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 1,2-Dichloroethane-d4 | Batcl<br>Analysis D<br>Result<br>0.85<br>0.98<br>1.0<br>3.1<br>0.44 | h ID: <b>52</b><br>Date: <b>4</b> /<br><u>PQL</u><br>0.025<br>0.050<br>0.050 | 049<br>26/2020<br><u>SPK value</u><br>1.000<br>1.000<br>3.000<br>0.5000 | R<br>S<br>SPK Ref Val<br>0<br>0<br>0 | eunNo: 6<br>6<br>7<br>85.3<br>97.9<br>104<br>103<br>88.3                   | <b>3429</b><br><b>367766</b><br>LowLimit<br>70<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<br>130 | 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 range due to dilution or matrix

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

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2004999

29-Apr-20

|                               | Resource Gr<br>1 Russa Stat | •               |           |                                |           |           |             |            |          |      |
|-------------------------------|-----------------------------|-----------------|-----------|--------------------------------|-----------|-----------|-------------|------------|----------|------|
| Sample ID: mb-52049           | SampT                       | ype: ME         | BLK       | Test                           | tCode: EF | PA Method | 8015D Mod:  | Gasoline I | Range    |      |
| Client ID: PBS                | Batch                       | n ID: <b>52</b> | 049       | RunNo: 68429                   |           |           |             |            |          |      |
| Prep Date: 4/23/2020          | Analysis D                  | ate: 4/         | 26/2020   | 20 SeqNo: 2367784 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                     | 490                         |                 | 500.0     |                                | 98.9      | 70        | 130         |            |          |      |
| Sample ID: Ics-52049          | SampT                       | ype: LC         | S         | Test                           | tCode: EF | PA Method | 8015D Mod:  | Gasoline I | Range    |      |
| Client ID: LCSS               | Batch                       | n ID: 52        | 049       | R                              | unNo: 6   | 3429      |             |            |          |      |
| Prep Date: 4/23/2020          | Analysis D                  | ate: 4/         | 26/2020   | S                              | eqNo: 2   | 367785    | Units: mg/K | g          |          |      |
| Analyte                       | Result                      | PQL             | SPK value | SPK Ref Val                    | %REC      | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24                          | 5.0             | 25.00     | 0                              | 97.8      | 70        | 130         |            |          |      |
| Surr: BFB                     | 500                         |                 | 500.0     |                                | 100       | 70        | 130         |            |          |      |

- \* 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

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

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2004999

29-Apr-20

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| Page | 11 | 60  | £121   |
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| ruge | 11 | U U | 1 1 34 |
|      |    |     |        |

| ENVI<br>ANAL                          | HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY  |                                 |                  | ll Environme<br>L: 505-345-2<br>Website: www | 490<br>Albuquero<br>3975 FAX: | 01 Hawkin<br>nue, NM 8<br>505-345- | s NE<br>7109 <b>Sa</b><br>4107 | mple Log-In C                                | Page 11<br>Check List |
|---------------------------------------|--|---------------------------------|------------------|--|-------------------------------|------------------------------------|--------------------------------|--|-----------------------|
| Client Name:                          | VERTEX (   | ARLSBAD                         | Work             | Order Num                                    | ber: 200                      | 4999                               | . I                            | RcptNo:                                      | 1                     |
| Received By:                          | Juan Roj   | as                              | 4/23/20          | 20 9:40:00                                   | АМ                            |                                    | Juanan                         |  |                       |
| Completed By:                         | Isaiah Or  | tiz                             | 4/23/20          | 20 10:04:40                                  | MAC                           |                                    | Juanang)<br>I- (               | 24   |                       |
| Reviewed By:                          | JRY  | 23/20                           |                  |  |                               |                                    |                                |  |                       |
| Chain of Cu                           | stody  |                                 |                  |  |                               |                                    |                                |  |                       |
| 1. Is Chain of C                      | Custody suffic   | iently complet                  | e?               |  | Yes                           | $\checkmark$                       | No 🗌                           | Not Present                                  |                       |
| 2. How was the                        | e sample deliv   | vered?                          |                  |  | Cou                           | rier                               |                                |  |                       |
| Log In                                |  |                                 |                  |  |                               |                                    |                                |  |                       |
| 3. Was an atte                        | mpt made to  | cool the sampl                  | les?             |  | Yes                           |                                    | No 🗌                           |  |                       |
| 4. Were all sam                       | ples received  | l at a temperat                 | ture of >0° C    | to 6.0°C                                     | Yes                           |                                    | No 🗌                           |  |                       |
| 5. Sample(s) in                       | proper conta   | iner(s)?                        |                  |  | Yes                           | ~                                  | No 🗌                           |  |                       |
| 6. Sufficient sar                     | nple volume  | or indicated te                 | est(s)?          |  | Yes                           | ~                                  | No 🗌                           |  |                       |
| 7. Are samples                        |  |                                 |                  | ed?  | Yes                           |                                    | No 🗌                           |  |                       |
| 8. Was preserv                        | ative added to   | bottles?                        |                  |  | Yes                           |                                    | No 🔽                           | NA 🗌   |                       |
| 9. Received at I                      | east 1 vial wil  | h headspace ·                   | <1/4" for AQ \   | /OA?   | Yes                           |                                    | No 🗌                           | NA 🔽   | /                     |
| 10. Were any sa                       |  |                                 |                  | C. T.  | Yes                           | _                                  | No 🔽                           |  | /                     |
| 11.Does paperw                        |  |                                 |                  |  | Yes                           |                                    | No 🗌                           | # of preserved<br>bottles checked<br>for pH: | /                     |
|                                       |  | ain of custody)                 | )                |  | 103                           | <u>ت</u>                           |                                |  | >12 unless noted)     |
| 12. Are matrices                      | correctly ider   | tified on Chair                 | n of Custody?    |  | Yes                           | $\checkmark$                       | No 🗌                           | Adjusted?                                    |                       |
| 13. Is it clear what                  | at analyses w  | ere requested                   | ?                |  | Yes                           | V                                  | No 🗌                           | 1  | · · · ·               |
| 14. Were all hold<br>(If no, notify o |  | e to be met?<br>authorization.) |                  |  | Yes                           |                                    | No 🗌                           | Checked by: 7                                | °m 4/23/2             |
| Special Hand                          |  |                                 |                  |  |                               |                                    |                                | /  |                       |
| 15. Was client n                      | 5.) S  |                                 | vith this order? | 2  | Yes                           |                                    | No 🗌                           | NA 🔽   |                       |
| Persor                                | Notified:  |                                 |                  | Date   | -                             |                                    |                                |  |                       |
| By Wh                                 | om:  |                                 |                  | Via:   | eM                            | ail 🗆 P                            | hone 🦳 Fax                     | In Person                                    |                       |
| Regard                                |  |                                 |                  |  |                               |                                    |                                |  |                       |
| Client                                | Instructions:  | 1                               |                  |  |                               |                                    |                                |  |                       |
| 16. Additional re                     | emarks:  |                                 |                  |  |                               |                                    |                                |  |                       |
| 17. <u>Cooler Info</u>                | rmation  |                                 |                  |  |                               |                                    |                                |  |                       |
| Cooler N                              | And the second |                                 | Seal Intact      | Seal No                                      | Seal D                        | ate                                | Signed By                      |  |                       |
| 1                                     | 0.2  | Good                            | Not Present      |  |                               |                                    |                                |  |                       |
| 2                                     | 3.3  | Good                            | Not Present      |  |                               |                                    |                                |  |                       |

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| Received by OCD: 12/5/2022  | 1:28:01 AM  |  | Page 117 of 134  |
|---|---|--|--|
| <ul> <li>HALL ENVIRONMENTAL</li> <li>HALL ENVIRONMENTAL</li> <li>ANALYSIS LABORATORY</li> <li>Mww.hallenvironmental.com</li> <li>Www.hallenvironmental.com</li> <li>Hot Hawkins NE - Albuquerque, NM 87109</li> <li>Hot Hawkins NE - Albuquerque, NM 87109</li> <li>Tel. 505-345-3975 Fax 505-345-4107</li> <li>Tel. 505-345-3975 Fax 505-345-4107</li> </ul> | PH:8015D(GRO / DRO / MRO)<br>1081 Pesticides/8082 PCB's<br>2DB (Method 504.1)<br>2DB (Method 504.1)<br>2CRA 8 Metals<br>2DF, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub><br>2D60 (VOA)<br>1270 (Semi-VOA)<br>1270 (Semi-VOA) | 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | Time:       Relinquisped by:       Received by:       Via:       Date       Time       Remarks:       CC '. Natali. Gordon         [3:00] $1/20$ $1/22/20$ $1/300$ $1/22/20$ $1/300$ $1/22/20$ $1/300$ Time:       Relinquished by:       Received by:       Via:       Date       Time $1/22/20$ $1/300$ 19:00 $1/20$ $1/20$ $1/20$ $1/20$ $1/20$ $1/200$ If eccessary, 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. |
|   | BTEX) MTBE / TMB's (8021)   |  | Remarks:   |
| Dary  |   |  | Date Time<br>$i/\sqrt{2z}/2c$ /305<br>Date Time<br>u/73/7c $9.'U/Ds. This serves as notice of this$  |
| nd Time: 5 (<br>me: Pusso -<br>DH (Pab)   | ager:<br>L Clordon<br>DTP<br>DTPS D<br>Intervative 2  |  | Via:<br>Via:<br>Via:<br>COUV , 4 /   |
| Turn-Around Time.<br>Existandard<br>Project Name:<br>Hony Lo Nu<br>Hony Lo Nu<br>Project #:<br>20E - 00   | Project Manager:<br>Nortal, Coo<br>Sampler: MJ P<br>On Ice: DYes<br># of Coolers: 2<br>Cooler Temp(metuding cr):<br>Cooler Temp(metuding cr):   |  | Received by:<br>Received by:   |
| Chain-of-Custody Record<br>T. Vortex<br>Jodic Gordon<br>19 Address:<br>File<br>e#:  | a: Level 4 (Full Validation)  | Matrix     Sample Name       5     50:1     75     0.5       5     8520-02     0.5'       5     8520-02     0.5'       0     W530-01     0.5'       0     W530-03     0.5'       0     W530-03     0.5'       0     W530-10     0.5' | Relinquished by:<br>Relinquished by:<br>aary, samples submitted to Hall Environmental may be subc  |
| Client: VUCH<br>Client: VUCH<br>Nailing Address:<br>ON File<br>Phone #:   |   | ч/21 11:15<br>11:35<br>11:35<br>11:35<br>9:40<br>№ 10:50   | Date: Time:<br><i>Ulaza 13.00</i><br>Date: Time:<br><i>Date</i> : If <i>a</i>  |

ł



December 10, 2020

Natalie Gordon Vertex Resource Group Ltd. 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: clients.hallenvironmental.com

RE: Tony La Russa St Com 201H

OrderNo.: 2012234

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/4/2020 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

2012234-001

**Project:** 

Lab ID:

Analyses

**Analytical Report** Lab Order 2012234

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/10/2020 CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS20-02 0.5' Tony La Russa St Com 201H Collection Date: 12/2/2020 8:10:00 AM Matrix: SOIL Received Date: 12/4/2020 8:00:00 AM Result **RL** Qual Units DF **Date Analyzed** EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: CLP Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 12/5/2020 12:06:16 PM ND Motor Oil Range Organics (MRO) 49 mg/Kg 1 12/5/2020 12:06:16 PM 440 20 4 4 5 4 0/ .... 1 12/5/2020 12:06:16 PM В

| Surr: DNOP                       | 113 | 30.4-154 | %Rec  | 1  | 12/5/2020 12:06:16 PM |
|----------------------------------|-----|----------|-------|----|-----------------------|
| EPA METHOD 8015D: GASOLINE RANGE |     |          |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)    | ND  | 5.0      | mg/Kg | 1  | 12/5/2020 1:22:15 PM  |
| Surr: BFB                        | 102 | 75.3-105 | %Rec  | 1  | 12/5/2020 1:22:15 PM  |
| EPA METHOD 8021B: VOLATILES      |     |          |       |    | Analyst: NSB          |
| Benzene                          | ND  | 0.025    | mg/Kg | 1  | 12/5/2020 1:22:15 PM  |
| Toluene                          | ND  | 0.050    | mg/Kg | 1  | 12/5/2020 1:22:15 PM  |
| Ethylbenzene                     | ND  | 0.050    | mg/Kg | 1  | 12/5/2020 1:22:15 PM  |
| Xylenes, Total                   | ND  | 0.099    | mg/Kg | 1  | 12/5/2020 1:22:15 PM  |
| Surr: 4-Bromofluorobenzene       | 101 | 80-120   | %Rec  | 1  | 12/5/2020 1:22:15 PM  |
| EPA METHOD 300.0: ANIONS         |     |          |       |    | Analyst: VP           |
| Chloride                         | ND  | 60       | mg/Kg | 20 | 12/7/2020 4:40:30 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 range due to dilution or matrix S

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

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**Analytical Report** Lab Order 2012234

Date Reported: 12/10/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS20-10 0-0.5' **Project:** Tony La Russa St Com 201H Collection Date: 12/2/2020 8:20:00 AM Lab ID: 2012234-002 Matrix: SOIL Received Date: 12/4/2020 8:00:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 12/5/2020 12:35:16 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 12/5/2020 12:35:16 PM Surr: DNOP 110 30.4-154 %Rec 1 12/5/2020 12:35:16 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 12/5/2020 2:33:52 PM 4.9 mg/Kg 1 Surr: BFB 103 75.3-105 %Rec 1 12/5/2020 2:33:52 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 12/5/2020 2:33:52 PM 1 Toluene ND 0.049 mg/Kg 1 12/5/2020 2:33:52 PM Ethylbenzene ND 0.049 mg/Kg 1 12/5/2020 2:33:52 PM Xylenes, Total ND 0.098 mg/Kg 1 12/5/2020 2:33:52 PM Surr: 4-Bromofluorobenzene 103 80-120 %Rec 1 12/5/2020 2:33:52 PM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 60 12/7/2020 4:52:54 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 range due to dilution or matrix

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

Page 2 of 7

| Client:<br>Project: |           | ex Resource Gr<br>7 La Russa St C |          |           |             |           |           |              |      |          |      |
|---------------------|-----------|-----------------------------------|----------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Sample ID: N        | /IB-56826 | SampT                             | ype: ME  | BLK       | Tes         | tCode: El | PA Method | 300.0: Anion | s    |          |      |
| Client ID: F        | PBS       | Batch                             | n ID: 56 | 826       | F           | RunNo: 7  | 3830      |              |      |          |      |
| Prep Date:          | 12/7/2020 | Analysis D                        | ate: 12  | 2/7/2020  | S           | SeqNo: 2  | 604047    | Units: mg/K  | g    |          |      |
| Analyte             |           | Result                            | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Chloride            |           | ND                                | 1.5      |           |             |           |           |              |      |          |      |
| Sample ID: L        | -CS-56826 | SampT                             | ype: LC  | s         | Tes         | tCode: El | PA Method | 300.0: Anion | s    |          |      |
| Client ID:          | CSS       | Batch                             | n ID: 56 | 826       | F           | RunNo: 7  | 3830      |              |      |          |      |
| Prep Date:          | 12/7/2020 | Analysis D                        | ate: 12  | 2/7/2020  | S           | SeqNo: 2  | 604048    | 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           | 90.6      | 90        | 110          |      |          |      |

- \* 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

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

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| Hall Environmen                | tal Analysis Labo                           | ratory, Inc.      |   |                     |               | 10-Dec-20 |  |
|--------------------------------|---|-------------------|---|---------------------|---------------|-----------|--|
|                                | Resource Group Ltd.<br>La Russa St Com 201H |                   |   |                     |               |           |  |
| Sample ID: MB-56804            | SampType: MBLK                              | Te                | stCode: EPA Method                                  | 8015M/D: Diesel Ra  | ange Organics |           |  |
| Client ID: PBS                 | Batch ID: 56804                             |                   | RunNo: <b>73808</b>                                 |                     |               |           |  |
| Prep Date: 12/4/2020           | Analysis Date: 12/5/2020                    | D                 | SeqNo: <b>2601641</b>                               | Units: mg/Kg        |               |           |  |
| Analyte                        | Result PQL SPK                              | alue SPK Ref Val  | %REC LowLimit                                       | HighLimit %RF       | D RPDLimit    | Qual      |  |
| Diesel Range Organics (DRO)    | ND 10                                       |                   |   |                     |               |           |  |
| Motor Oil Range Organics (MRO) | ND 50                                       |                   |   |                     |               |           |  |
| Surr: DNOP                     | 13 1  | 0.00              | 133 30.4  | 154                 |               |           |  |
| Sample ID: LCS-56804           | SampType: LCS                               | Те                | stCode: EPA Method                                  | 8015M/D: Diesel Ra  | ange Organics |           |  |
| Client ID: LCSS                | Batch ID: 56804                             |                   | RunNo: <b>73808</b>                                 |                     |               |           |  |
| Prep Date: 12/4/2020           | Analysis Date: 12/5/2020                    | D                 | SeqNo: 2601643                                      | Units: mg/Kg        |               |           |  |
| Analyte                        | Result PQL SPK                              | value SPK Ref Val | %REC LowLimit                                       | HighLimit %RF       | PD RPDLimit   | Qual      |  |
| Diesel Range Organics (DRO)    | 46 10 5                                     | 0.00 0            | 92.9 70   | 130                 |               |           |  |
| Surr: DNOP                     | 5.1 5                                       | 5.000             | 103 30.4  | 154                 |               |           |  |
| Sample ID: 2012234-001AM       | IS SampType: MS                             | Те                | TestCode: EPA Method 8015M/D: Diesel Range Organics |                     |               |           |  |
| Client ID: BS20-02 0.5'        | Batch ID: 56804                             |                   | RunNo: <b>73808</b>                                 |                     |               |           |  |
| Prep Date: 12/4/2020           | Analysis Date: 12/5/2020                    | D                 | SeqNo: <b>2601672</b>                               | Units: mg/Kg        |               |           |  |
| Analyte                        | Result PQL SPK                              | alue SPK Ref Val  | %REC LowLimit                                       | HighLimit %RF       | D RPDLimit    | Qual      |  |
| Diesel Range Organics (DRO)    | 48 9.6 4                                    | 7.76 0            | 100 15  | 184                 |               |           |  |
| Surr: DNOP                     | 5.0 4                                       | .776              | 105 30.4  | 154                 |               |           |  |
| Sample ID: 2012234-001AM       | ISD SampType: MSD                           | Те                | stCode: EPA Method                                  | 8015M/D: Diesel Ra  | ange Organics |           |  |
| Client ID: BS20-02 0.5'        | Batch ID: 56804                             |                   | RunNo: <b>73808</b>                                 |                     |               |           |  |
| Prep Date: 12/4/2020           | Analysis Date: 12/5/2020                    | 0                 | SeqNo: 2601673                                      | Units: <b>mg/Kg</b> |               |           |  |
| Analyte                        | Result PQL SPK                              | alue SPK Ref Val  | %REC LowLimit                                       | HighLimit %RF       | PD RPDLimit   | Qual      |  |
| Diesel Range Organics (DRO)    | 46 9.9 4                                    | 9.41 0            | 93.7 15   | 184 3.1             | 15 23.9       |           |  |
| Surr: DNOP                     | 4.6 4                                       | .941              | 93.6 30.4   | 154                 | 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 range due to dilution or matrix S

Analyte detected in the associated Method Blank в

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

| Client:<br>Project:   |   | esource G1<br>Russa St C   | -   |  |                                     |  |  |   |                                       |                    |           |
|---|---|--|---|--|-------------------------------------|--|--|---|---------------------------------------|--------------------|-----------|
| Sample ID:  | mb-56802  | mb-56802 SampType: MBLK  |   |  |                                     | TestCode: EPA Method 8015D: Gasoline Range   |  |   |                                       |                    |           |
| Client ID:  | PBS   | Batch  | h ID: 568   | 302  | R                                   | RunNo: 73  | 3815   |   |                                       |                    |           |
| Prep Date:  | 12/4/2020   | Analysis D   | ate: 12   | /5/2020  | S                                   | SeqNo: 26  | 602132   | Units: mg/K   | g                                     |                    |           |
| Analyte   |   | Result   | PQL   | SPK value  | SPK Ref Val                         | %REC   | LowLimit   | HighLimit   | %RPD                                  | RPDLimit           | Qual      |
| Gasoline Rang<br>Surr: BFB  | ge Organics (GRO)                                 | ND<br>1000   | 5.0   | 1000   |                                     | 105  | 75.3   | 105   |                                       |                    |           |
| Sample ID:  | lcs-56802   | SampT  | ype: LC   | S  | Tes                                 | tCode: EF  | PA Method  | 8015D: Gaso   | line Rang                             | e                  |           |
| Client ID:  | LCSS  | Batch  | h ID: 568   | 302  | R                                   | RunNo: 73  | 3815   |   |                                       |                    |           |
| Prep Date:  | 12/4/2020   | Analysis D   | ate: 12   | /5/2020  | S                                   | SeqNo: 26  | 602133   | Units: mg/K   | g                                     |                    |           |
| Analyte   |   | Result   | PQL   | SPK value  | SPK Ref Val                         | %REC   | LowLimit   | HighLimit   | %RPD                                  | RPDLimit           | Qual      |
| -   | ge Organics (GRO)                                 | 25   | 5.0   | 25.00  | 0                                   | 99.3   | 72.5   | 106   |                                       |                    |           |
| Surr: BFB   |   | 1100   |   | 1000   |                                     | 112  | 75.3   | 105   |                                       |                    | S         |
| Sample ID:  | 2012234-002AMS                                    | SampT  | ype: <b>MS</b>  | ;  | Tes                                 | tCode: EF  | PA Method  | 8015D: Gaso   | line Rang                             | e                  |           |
| Client ID:  | WS20-10 0-0.5'                                    | Batch  | h ID: 568   | 302  | R                                   | RunNo: 73  | 3815   |   |                                       |                    |           |
| Prep Date:  | 12/4/2020   | Analysis D   | )ate: 12  | /5/2020  | S                                   | SeqNo: 26  | 602136   | Units: mg/K   | g                                     |                    |           |
| Analyte   |   | Result   | PQL   | SPK value  | SPK Ref Val                         | %REC   | LowLimit   | HighLimit   | %RPD                                  | RPDLimit           | Qual      |
| -   | ge Organics (GRO)                                 | 26   | 4.9   | 24.46  | 0                                   | 105  | 61.3   | 114   |                                       |                    |           |
| Surr: BFB   |   | 1100   |   | 978.5  |                                     | 115  | 75.3   | 105   |                                       |                    | S         |
| Sample ID:  | 2012234-002AMS                                    | D SampT  | ype: <b>MS</b>  | D  | Tes                                 | tCode: EF  | PA Method  | 8015D: Gaso   | line Rang                             | 9                  |           |
| Client ID:  | WS20-10 0-0.5'                                    | Batch  | h ID: 568   | 302  | R                                   | RunNo: 73  | 3815   |   |                                       |                    |           |
| Prep Date:  | 12/4/2020   | Analysis D   | ate: 12   | /5/2020  | S                                   | SeqNo: 26  | 602137   | Units: mg/K   | g                                     |                    |           |
| Analyte   |   | Result   | PQL   | SPK value  | SPK Ref Val                         | %REC   | LowLimit   | HighLimit   | %RPD                                  | RPDLimit           | Qual      |
| Gasoline Rang   |   |  |   |  |                                     | , o <b>E O</b>   | LOWLINK  | riigii∟iiiit  |                                       |                    |           |
|   | ge Organics (GRO)                                 | 24   | 4.9   | 24.63  | 0                                   | 99.0   | 61.3   | 114   | 5.01                                  | 20                 |           |
| Surr: BFB   | je Organics (GRO)                                 | 24<br>1100   | 4.9   | 24.63<br>985.2   | 0                                   |  |  | -   | 5.01<br>0                             | 20<br>0            | S         |
| Surr: BFB   | mb-56805  | 1100   | 4.9<br>-<br>ype: <b>MB</b>  | 985.2  |                                     | 99.0<br>111  | 61.3<br>75.3   | 114   | 0                                     | 0                  | S         |
| Surr: BFB   | mb-56805  | 1100<br>SampT  |   | 985.2  | Tes                                 | 99.0<br>111  | 61.3<br>75.3<br>PA Method  | 114<br>105  | 0                                     | 0                  | S         |
| Surr: BFB<br>Sample ID:<br>Client ID:   | mb-56805  | 1100<br>SampT  | -ype: <b>MB</b><br>n ID: <b>568</b>                                       | 985.2<br>BLK<br>805  | Tes                                 | 99.0<br>111<br>tCode: <b>EF</b>  | 61.3<br>75.3<br>PA Method<br>3815  | 114<br>105  | 0<br>line Rang                        | 0                  | S         |
| Surr: BFB<br>Sample ID:<br>Client ID:   | mb-56805<br>PBS                                   | 1100<br>SampT<br>Batch   | -ype: <b>MB</b><br>n ID: <b>568</b>                                       | 985.2<br>BLK<br>305<br>%/6/2020  | Tes                                 | 99.0<br>111<br>tCode: EF<br>RunNo: 73<br>SeqNo: 26   | 61.3<br>75.3<br>PA Method<br>3815  | 114<br>105<br>8015D: Gaso   | 0<br>line Rang                        | 0                  | S<br>Qual |
| Surr: BFB<br>Sample ID:<br>Client ID:<br>Prep Date:   | mb-56805<br>PBS                                   | 1100<br>SampT<br>Batch<br>Analysis D                                     | ype: ME<br>n ID: 568<br>Date: 12  | 985.2<br>BLK<br>305<br>%/6/2020  | Tes<br>R<br>S                       | 99.0<br>111<br>tCode: EF<br>RunNo: 73<br>SeqNo: 26   | 61.3<br>75.3<br>PA Method<br>3815<br>602155  | 114<br>105<br>8015D: Gaso<br>Units: %Rec                                    | 0<br>line Rang                        | 0<br>e             |           |
| Surr: BFB<br>Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte  | mb-56805<br>PBS<br>12/4/2020                      | 1100<br>SampT<br>Batch<br>Analysis D<br>Result<br>1000                   | ype: ME<br>n ID: 568<br>Date: 12  | 985.2<br>BLK<br>305<br>2/6/2020<br>SPK value<br>1000                                 | Tes<br>R<br>S<br>SPK Ref Val        | 99.0<br>111<br>tCode: EF<br>RunNo: 73<br>SeqNo: 26<br>%REC<br>100  | 61.3<br>75.3<br>PA Method<br>3815<br>502155<br>LowLimit<br>75.3                      | 114<br>105<br>8015D: Gaso<br>Units: %Rec<br>HighLimit<br>105                | 0<br>line Range<br>%RPD               | 0<br>e<br>RPDLimit |           |
| Surr: BFB<br>Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte<br>Surr: BFB                             | mb-56805<br>PBS<br>12/4/2020<br>Ics-56805         | 1100<br>SampT<br>Batch<br>Analysis D<br>Result<br>1000<br>SampT          | <sup>-</sup> ype: <b>MB</b><br>h ID: <b>568</b><br>Date: <b>12</b><br>PQL | 985.2<br>BLK<br>305<br>2/6/2020<br>SPK value<br>1000                                 | Tesi<br>R<br>SPK Ref Val<br>Tesi    | 99.0<br>111<br>tCode: EF<br>RunNo: 73<br>SeqNo: 26<br>%REC<br>100  | 61.3<br>75.3<br>PA Method<br>3815<br>602155<br>LowLimit<br>75.3<br>PA Method         | 114<br>105<br>8015D: Gaso<br>Units: %Rec<br>HighLimit                       | 0<br>line Range<br>%RPD               | 0<br>e<br>RPDLimit |           |
| Surr: BFB<br>Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte<br>Surr: BFB<br>Sample ID:<br>Client ID: | mb-56805<br>PBS<br>12/4/2020<br>Ics-56805         | 1100<br>SampT<br>Batch<br>Analysis D<br>Result<br>1000<br>SampT          | ype: ME<br>n ID: 568<br>Pate: 12<br>PQL                                   | 985.2<br>BLK<br>305<br>2/6/2020<br>SPK value<br>1000<br>S<br>305                     | Tes<br>R<br>SPK Ref Val<br>Tes<br>R | 99.0<br>111<br>tCode: EF<br>RunNo: 73<br>SeqNo: 26<br>%REC<br>100<br>tCode: EF                           | 61.3<br>75.3<br>PA Method<br>3815<br>502155<br>LowLimit<br>75.3<br>PA Method<br>3815 | 114<br>105<br>8015D: Gaso<br>Units: %Rec<br>HighLimit<br>105                | 0<br>line Range<br>%RPD<br>line Range | 0<br>e<br>RPDLimit |           |
| Surr: BFB<br>Sample ID:<br>Client ID:<br>Prep Date:<br>Analyte<br>Surr: BFB<br>Sample ID:<br>Client ID: | mb-56805<br>PBS<br>12/4/2020<br>Ics-56805<br>LCSS | 1100<br>SampT<br>Batch<br>Analysis D<br>Result<br>1000<br>SampT<br>Batch | ype: ME<br>n ID: 568<br>Pate: 12<br>PQL                                   | 985.2<br>3LK<br>305<br>36/2020<br>SPK value<br>1000<br>S<br>305<br>305<br>305<br>305 | Tes<br>R<br>SPK Ref Val<br>Tes<br>R | 99.0<br>111<br>tCode: EF<br>RunNo: 73<br>SeqNo: 26<br>%REC<br>100<br>tCode: EF<br>RunNo: 73<br>SeqNo: 26 | 61.3<br>75.3<br>PA Method<br>3815<br>502155<br>LowLimit<br>75.3<br>PA Method<br>3815 | 114<br>105<br>8015D: Gaso<br>Units: %Rec<br>HighLimit<br>105<br>8015D: Gaso | 0<br>line Range<br>%RPD<br>line Range | 0<br>e<br>RPDLimit |           |

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

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.

|  | Resource G<br>a Russa St C  | -   |   |  |   |   |   |                                     |                      |      |
|--|---|---|---|--|---|---|---|-------------------------------------|----------------------|------|
| Sample ID: <b>mb-56802</b>   |   | Туре: МЕ  |   | Tes  | tCode: EF   | PA Method   | 8021B: Volat  | iles                                |                      |      |
| Client ID: PBS   |   | Batch ID: 56802   |   |  | RunNo: 73   |   |   |                                     |                      |      |
| Prep Date: 12/4/2020   | Analysis [  |   |   |  | SeqNo: 26   |   | Units: mg/k   | a                                   |                      |      |
|  | -   |   |   |  |   |   | •   | •                                   |                      | 0    |
| Analyte  | Result<br>ND  | PQL<br>0.025  | SPK value   | SPK Ref Val  | %REC  | LowLimit  | HighLimit   | %RPD                                | RPDLimit             | Qual |
| Benzene<br>Toluene   | ND  | 0.025   |   |  |   |   |   |                                     |                      |      |
| Ethylbenzene   | ND  | 0.050   |   |  |   |   |   |                                     |                      |      |
| Xylenes, Total   | ND  | 0.030   |   |  |   |   |   |                                     |                      |      |
| Surr: 4-Bromofluorobenzene   | 1.0   | 0.10  | 1.000   |  | 104   | 80  | 120   |                                     |                      |      |
|  | 1.0   |   | 1.000   |  | 104   | 00  | 120   |                                     |                      |      |
| Sample ID: LCS-56802   | Samp <sup>-</sup>   | Туре: <b>LC</b>   | S   | Tes  | tCode: EF   | PA Method   | 8021B: Volat  | iles                                |                      |      |
| Client ID: LCSS  | Batc  | h ID: 56  | 802   | F  | RunNo: 73   | 3815  |   |                                     |                      |      |
| Prep Date: 12/4/2020   | Analysis [  | Date: 12  | 2/5/2020  | S  | SeqNo: 26   | 602185  | Units: mg/k   | g                                   |                      |      |
| Analyte  | Result  | PQL   | SPK value   | SPK Ref Val  | %REC  | LowLimit  | HighLimit   | %RPD                                | RPDLimit             | Qual |
| Benzene  | 0.95  | 0.025   | 1.000   | 0  | 95.2  | 80  | 120   |                                     |                      |      |
| Toluene  | 0.99  | 0.050   | 1.000   | 0  | 98.5  | 80  | 120   |                                     |                      |      |
| Ethylbenzene   | 0.97  | 0.050   | 1.000   | 0  | 96.9  | 80  | 120   |                                     |                      |      |
| Xylenes, Total   | 2.9   | 0.10  | 3.000   | 0  | 97.8  | 80  | 120   |                                     |                      |      |
| Surr: 4-Bromofluorobenzene   | 1.0   |   | 1.000   |  | 104   | 80  | 120   |                                     |                      |      |
| Sample ID: 2012234-001AM   | I <b>S</b> Samp <sup>*</sup>  | Туре: МS  | 6   | Tes  | tCode: EF   | PA Method   | 8021B: Volat  | iles                                |                      |      |
| Client ID: BS20-02 0.5'  | Batc  | h ID: 56  | 802   | F  | RunNo: 7:   | 3815  |   |                                     |                      |      |
| Prep Date: 12/4/2020   | Analysis [  | Date: 12  | 2/5/2020  | S  | SeqNo: 26   | 602187  | Units: mg/k   | g                                   |                      |      |
|  |   |   |   |  |   |   |   |                                     |                      |      |
| Analyte  | Result  | PQL   | SPK value   | SPK Ref Val  | %REC  | LowLimit  | HighLimit   | %RPD                                | RPDLimit             | Qual |
| Analyte<br>Benzene   | Result<br>0.91  |   | SPK value<br>0.9728   | SPK Ref Val<br>0   | %REC<br>93.7  | LowLimit<br>76.3  | HighLimit<br>120  | %RPD                                | RPDLimit             | Qual |
|  |   | PQL   |   |  |   |   |   | %RPD                                | RPDLimit             | Qual |
| Benzene  | 0.91  | PQL<br>0.024  | 0.9728  | 0  | 93.7  | 76.3  | 120   | %RPD                                | RPDLimit             | Qual |
| Benzene<br>Toluene<br>Ethylbenzene   | 0.91<br>0.94  | PQL<br>0.024<br>0.049   | 0.9728<br>0.9728  | 0<br>0.01509   | 93.7<br>95.3  | 76.3<br>78.5  | 120<br>120  | %RPD                                | RPDLimit             | Qual |
| Benzene<br>Toluene<br>Ethylbenzene   | 0.91<br>0.94<br>0.96  | PQL<br>0.024<br>0.049<br>0.049  | 0.9728<br>0.9728<br>0.9728  | 0<br>0.01509<br>0  | 93.7<br>95.3<br>98.4  | 76.3<br>78.5<br>78.1  | 120<br>120<br>124   | %RPD                                | RPDLimit             | Qual |
| Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total   | 0.91<br>0.94<br>0.96<br>2.9<br>0.99   | PQL<br>0.024<br>0.049<br>0.049  | 0.9728<br>0.9728<br>0.9728<br>2.918<br>0.9728   | 0<br>0.01509<br>0<br>0   | 93.7<br>95.3<br>98.4<br>98.2<br>102   | 76.3<br>78.5<br>78.1<br>79.3<br>80  | 120<br>120<br>124<br>125  |                                     | RPDLimit             | Qual |
| Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene   | 0.91<br>0.94<br>0.96<br>2.9<br>0.99   | PQL<br>0.024<br>0.049<br>0.049<br>0.097   | 0.9728<br>0.9728<br>0.9728<br>2.918<br>0.9728   | 0<br>0.01509<br>0<br>0<br>Tes  | 93.7<br>95.3<br>98.4<br>98.2<br>102   | 76.3<br>78.5<br>78.1<br>79.3<br>80<br>PA Method   | 120<br>120<br>124<br>125<br>120   |                                     | RPDLimit             | Qual |
| Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: <b>2012234-001AM</b>  | 0.91<br>0.94<br>0.96<br>2.9<br>0.99   | PQL<br>0.024<br>0.049<br>0.049<br>0.097<br>Type: MS   | 0.9728<br>0.9728<br>0.9728<br>2.918<br>0.9728<br>5D<br>802  | 0<br>0.01509<br>0<br>0<br>Tes  | 93.7<br>95.3<br>98.4<br>98.2<br>102<br>tCode: <b>EF</b>   | 76.3<br>78.5<br>78.1<br>79.3<br>80<br>PA Method<br>3815                                       | 120<br>120<br>124<br>125<br>120   | iles                                | RPDLimit             | Qual |
| Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2012234-001AM<br>Client ID: BS20-02 0.5'  | 0.91<br>0.94<br>0.96<br>2.9<br>0.99<br>ISD Samp   | PQL<br>0.024<br>0.049<br>0.097<br>Type: MS<br>h ID: 56<br>Date: 12                            | 0.9728<br>0.9728<br>2.918<br>0.9728<br>5D<br>802<br>2/5/2020  | 0<br>0.01509<br>0<br>0<br>Tes  | 93.7<br>95.3<br>98.4<br>98.2<br>102<br>tCode: EF  | 76.3<br>78.5<br>78.1<br>79.3<br>80<br>PA Method<br>3815                                       | 120<br>120<br>124<br>125<br>120<br>8021B: Volat   | iles                                | RPDLimit             | Qual |
| Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2012234-001AM<br>Client ID: BS20-02 0.5'<br>Prep Date: 12/4/2020                                  | 0.91<br>0.94<br>0.96<br>2.9<br>0.99<br>ISD Samp <sup>-</sup><br>Batc<br>Analysis [                                  | PQL<br>0.024<br>0.049<br>0.097<br>Type: MS<br>h ID: 56<br>Date: 12                            | 0.9728<br>0.9728<br>2.918<br>0.9728<br>5D<br>802<br>2/5/2020  | 0<br>0.01509<br>0<br>0<br>Tes<br>F                                     | 93.7<br>95.3<br>98.4<br>98.2<br>102<br>tCode: EF<br>RunNo: 7<br>SeqNo: 26                         | 76.3<br>78.5<br>78.1<br>79.3<br>80<br>PA Method<br>3815<br>502188                             | 120<br>120<br>124<br>125<br>120<br>8021B: Volat   | tiles<br>Sg                         |                      |      |
| Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2012234-001AM<br>Client ID: BS20-02 0.5'<br>Prep Date: 12/4/2020<br>Analyte                       | 0.91<br>0.94<br>0.96<br>2.9<br>0.99<br>ISD Samp<br>Batc<br>Analysis I<br>Result                                     | PQL<br>0.024<br>0.049<br>0.097<br>Type: MS<br>th ID: 568<br>Date: 12<br>PQL                   | 0.9728<br>0.9728<br>2.918<br>0.9728<br>5D<br>802<br>2/5/2020<br>SPK value                               | 0<br>0.01509<br>0<br>0<br>Tes<br>F<br>SPK Ref Val                      | 93.7<br>95.3<br>98.4<br>98.2<br>102<br>tCode: EF<br>RunNo: <b>7</b><br>SeqNo: <b>2</b><br>%REC    | 76.3<br>78.5<br>78.1<br>79.3<br>80<br>PA Method<br>3815<br>502188<br>LowLimit                 | 120<br>120<br>124<br>125<br>120<br>8021B: Volat<br>Units: mg/M<br>HighLimit               | iiles<br>Sg<br>%RPD                 | RPDLimit             |      |
| Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2012234-001AM<br>Client ID: BS20-02 0.5'<br>Prep Date: 12/4/2020<br>Analyte<br>Benzene            | 0.91<br>0.94<br>0.96<br>2.9<br>0.99<br>ISD Samp<br>Batc<br>Analysis I<br>Result<br>0.93                             | PQL<br>0.024<br>0.049<br>0.097<br>Type: MS<br>th ID: 56<br>Date: 12<br>PQL<br>0.025           | 0.9728<br>0.9728<br>2.918<br>0.9728<br>5D<br>802<br>2/5/2020<br>SPK value<br>0.9833                     | 0<br>0.01509<br>0<br>0<br>Tes<br>F<br>SPK Ref Val<br>0                 | 93.7<br>95.3<br>98.4<br>98.2<br>102<br>tCode: EF<br>RunNo: 7:<br>SeqNo: 26<br>%REC<br>94.6        | 76.3<br>78.5<br>78.1<br>79.3<br>80<br>PA Method<br>3815<br>502188<br>LowLimit<br>76.3         | 120<br>120<br>124<br>125<br>120<br>8021B: Volat<br>Units: mg/k<br>HighLimit<br>120        | iiles<br>Sg<br>%RPD<br>2.05         | RPDLimit<br>20       |      |
| Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene<br>Sample ID: 2012234-001AM<br>Client ID: BS20-02 0.5'<br>Prep Date: 12/4/2020<br>Analyte<br>Benzene<br>Toluene | 0.91<br>0.94<br>0.96<br>2.9<br>0.99<br>ISD Samp <sup>-</sup><br>Batc<br>Analysis I<br><u>Result</u><br>0.93<br>0.96 | PQL<br>0.024<br>0.049<br>0.097<br>Type: MS<br>th ID: 568<br>Date: 12<br>PQL<br>0.025<br>0.049 | 0.9728<br>0.9728<br>0.9728<br>2.918<br>0.9728<br>5D<br>802<br>2/5/2020<br>SPK value<br>0.9833<br>0.9833 | 0<br>0.01509<br>0<br>0<br>Tes<br>F<br>S<br>SPK Ref Val<br>0<br>0.01509 | 93.7<br>95.3<br>98.4<br>98.2<br>102<br>tCode: EF<br>RunNo: 7<br>SeqNo: 26<br>%REC<br>94.6<br>96.3 | 76.3<br>78.5<br>78.1<br>79.3<br>80<br>PA Method<br>3815<br>502188<br>LowLimit<br>76.3<br>78.5 | 120<br>120<br>124<br>125<br>120<br>8021B: Volat<br>Units: mg/k<br>HighLimit<br>120<br>120 | <b>illes</b><br><b>2.05</b><br>2.02 | RPDLimit<br>20<br>20 |      |

#### 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

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

2012234

10-Dec-20

|                            | a Resource Group Ltd.<br>La Russa St Com 201H |                           |                  |               |
|----------------------------|---|---------------------------|------------------|---------------|
| Sample ID: mb-56805        | SampType: MBLK                                | TestCode: EPA Method      | 8021B: Volatiles |               |
| Client ID: PBS             | Batch ID: 56805                               | RunNo: 73815              |                  |               |
| Prep Date: 12/4/2020       | Analysis Date: 12/6/2020                      | SeqNo: 2602207            | Units: %Rec      |               |
| Analyte                    | Result PQL SPK value                          | SPK Ref Val %REC LowLimit | HighLimit %RPD   | RPDLimit Qual |
| Surr: 4-Bromofluorobenzene | 1.0 1.000                                     | 101 80                    | 120              |               |
| Sample ID: LCS-56805       | SampType: LCS                                 | TestCode: EPA Method      | 8021B: Volatiles |               |
| Client ID: LCSS            | Batch ID: 56805                               | RunNo: 73815              |                  |               |
| Prep Date: 12/4/2020       | Analysis Date: 12/6/2020                      | SeqNo: 2602208            | Units: %Rec      |               |
| Analyte                    | Result PQL SPK value                          | SPK Ref Val %REC LowLimit | HighLimit %RPD   | RPDLimit Qual |
| Surr: 4-Bromofluorobenzene | 1.0 1.000                                     | 103 80                    | 120              |               |

- \* 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

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

Page 7 of 7

2012234

10-Dec-20

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY |                    |                 | TE.              | Hall Environmental Analysis Laboratory<br>4901 Hawkins NE<br>Albuquerque, NM 87109<br>TEL: 505-345-3975 FAX: 505-345-4107<br>Website: clients.hallenvironmental.com |        |              |       |       | Page 120                            |
|---|--------------------|-----------------|------------------|---|--------|--------------|-------|-------|-------------------------------------|
| Client Name:                                    | Vertex Res<br>Ltd. | ource Group     | Work             | Order Numbe   | : 201  | 2234         |       |       | RcptNo: 1                           |
| Received By:                                    | Sean Livi          | ngston          | 12/4/20          | 20 8:00:00 AN   | 1      |              | <     | 5-4   | Inst                                |
| Completed By:                                   | Desiree D          | ominguez        | 12/4/20          | 20 8:30:19 AM   | 1      |              | T     | 2     | Inst                                |
| Reviewed By:                                    | al                 |                 | 12/4/2           |   |        |              | 1     | . 4   |                                     |
| Chain of Cus                                    | tody               |                 |                  |   |        |              |       |       |                                     |
| 1. Is Chain of C                                | ustody comp        | lete?           |                  |   | Yes    |              | N     | lo 🗌  | Not Present                         |
| 2. How was the                                  | sample deliv       | ered?           |                  |   | Cou    | irier        |       |       |                                     |
| Log In  |                    |                 |                  |   |        |              |       |       |                                     |
| 3. Was an attem                                 | npt made to c      | ool the sampl   | es?              |   | Yes    |              | N     | lo 🗌  |                                     |
| 4. Were all samp                                | oles received      | at a temperat   | ure of >0° C t   | to 6.0°C  | Yes    | •            | N     | lo 🗌  |                                     |
| 5. Sample(s) in                                 | proper contai      | ner(s)?         |                  |   | Yes    |              | N     | lo 🗆  |                                     |
| 6. Sufficient sam                               | iple volume fo     | or indicated te | st(s)?           |   | Yes    |              | N     | •     |                                     |
| 7. Are samples (                                |                    |                 | perly preserve   | ed?   | Yes    | $\checkmark$ | N     | o 🗌   |                                     |
| 8. Was preserva                                 | tive added to      | bottles?        |                  |   | Yes    |              | N     | • 🗸   | NA 🗌                                |
| 9. Received at le                               | ast 1 vial with    | h headspace -   | <1/4" for AQ V   | OA?   | Yes    |              | N     | •     | NA 🗹                                |
| 0. Were any san                                 | nple containe      | ers received br | oken?            |   | Yes    |              | N     | lo 🔽  | # of preserved bottles checked      |
| 1. Does paperwo<br>(Note discrepa               |                    |                 |                  |   | Yes    |              | N     | •     | for pH:<br>(<2 or >12 unless noted) |
| 2. Are matrices o                               | correctly ident    | tified on Chair | of Custody?      |   | Yes    | ~            | N     | •     | Adjusted?                           |
| 3. Is it clear what                             |                    |                 | ?                |   | Yes    | 1000         | N     | •     | lane a sta                          |
| 4. Were all holdin<br>(If no, notify cu         |                    |                 |                  |   | Yes    | ~            | N     | •     | Checked by: SGL 12/4/24             |
| pecial Handl                                    | ing (if app        | licable)        |                  |   |        |              |       |       |                                     |
| 5. Was client no                                | tified of all di   | screpancies w   | vith this order? |   | Yes    |              | N     | lo 🗌  | NA 🔽                                |
| Person  | Notified:          |                 |                  | Date:   |        |              |       |       |                                     |
| By Who  | m:                 |                 |                  | Via: [  | eM     | ail          | Phone | Fa    | x 🔲 In Person                       |
| Regardi   |                    |                 |                  |   |        |              |       |       |                                     |
| Client Ir<br>16. Additional rei                 | nstructions:       |                 |                  |   |        |              |       |       |                                     |
|   |                    |                 |                  |   |        |              |       |       |                                     |
| 7. Cooler Infor<br>Cooler No                    |                    | Condition       | Seal Intact      | Soul Ma   | Cost D | ate          | 0:    | d Di- |                                     |
| 1   | 0.1                | Good            | ocal intact      | Seal No S   | Seal D | ale          | Signe | и ву  |                                     |
| 2   | 1.5                | Good            |                  |   |        |              |       |       |                                     |
| 3   | 0.2                | Good            |                  |   |        |              |       |       |                                     |

Page 1 of 1

| ceived by OCD: 1                                 | 1 4/ 3/ 4        | 40221.   | :20:UI AN  |  |   |  |              |              |  | Page 127  |
|--|------------------|--|--|--|---|--|--------------|--------------|--|---|
| HALL ENVIRONMENTAL<br>ANALYSIS LABORATOR         | - AI             | Tel. 505-345-3975 Fax 505-345-4107<br>Analysis Request |  | 85/8082<br>504.1)<br>3. NO <sub>2</sub> ,<br>3. NO <sub>2</sub> ,<br>(AO | eticid<br>ethod<br>Meta<br>Meta<br>r, NC<br>OA) | 8081 Pe<br>PAHs by<br>RCRA 8<br>8260 (V<br>8250 (V | >            | 2            |  | arks:<br>CC: Natali Curdur<br>CC: Natali Curdur |
|  |                  |  | and the second sec | E \ 1MB  |   |  | )            | 7            |  | L C C   |
| ne: 5 Day<br>Brush Day                           |                  | 39   | Gordon   | □ No   | - remarks (°(                                   | HEAL No.   | 100 -        | 200-         |  | Date Time                                       |
| Time:  |                  | 00239  | د  | 5 e  | including CF): See                              | Preservative<br>Type                               | 100          | 111          |  | Via:<br>MM<br>Via:                              |
| Turn-Around Time:<br>Standard E<br>Project Name: | Project #        | DOE-   | Project Manager:   |  | # of Coolers: 3<br>Cooler Temp(including CF):   | Container<br>Type and #                            | Hor          | 4.2          |  | Received by:                                    |
| Chain-of-Custody Record                          |                  |  | □ 1 evel 4 (Full Validation)   |  |   | Sample Name  | B600-02 0.5' | W500-100.002 |  |   |
| ain-of-Cus                                       | dress:           |  | ä  | □ Az Cor<br>□ Other  | <u>ype)</u>                                     | Matrix   | 0 50.1       | 20: 1        |  | ne: Relinquished by:                            |
|  | Mailing Address: | Phone #:   | email or Fax#:<br>QA/QC Package:<br>□ Standard   | Accreditation:   |   | Date Tin   | 8 e/ e1      | 0 2/01       |  | Date: Time:<br>Date: Time:                      |

# **ATTACHMENT 8**

# **Natalie Gordon**

| From:        | John Hurt <jhurt@matadorresources.com></jhurt@matadorresources.com>                          |
|--------------|--|
| Sent:        | Friday, November 20, 2020 10:16 AM   |
| То:          | Natalie Gordon   |
| Subject:     | FW: Closure Denied - Matador - Tony La Russa St Com 201H-202H - (Incident<br>#NRM2008758101) |
| Attachments: | Closure Denied - Matador - Tony La Russa St Com 201H-202H - (Incident<br>#NRM2008758101).pdf |

### WTF

From: Hamlet, Robert, EMNRD [mailto:Robert.Hamlet@state.nm.us]
Sent: Friday, November 20, 2020 10:09 AM
To: John Hurt <JHurt@matadorresources.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>; spills@slo.state.nm.us
spills@slo.state.nm.us
Subject: Closure Denied - Matador - Tony La Russa St Com 201H-202H - (Incident #NRM2008758101)

# \*\*EXTERNAL EMAIL\*\*

#### John,

We have received your closure report and final C-141 for <u>Incident #NRM2008758101</u> Tony La Russa St Com 201H-202H, thank you. This closure is denied.

- This release has occurred in a High Karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule. The current spill rule may be viewed here: http://164.64.110.134/parts/title19/19.015.0029.html
- When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.
- Please continue to horizontally delineate sample points BS 20-02 and WS20-10 to 600 mg/kg for chlorides.

| NM OCD Environmental Map  | ew Mexico Oil Conservation Division   |            |                             |  |                                   |
|---|---|------------|-----------------------------|--|-----------------------------------|
| ≣ ♥ ₩ ♥ ⋽   | + 32 253397 -104  | 181271 X Q |                             | *  |                                   |
| igend<br>ISGS Groundwater Wells   |   |            |                             |  | 904090009<br>120407 10<br>17 0012 |
| CDGIS OCDPUB.Lee_County_Monitoring_Wells  |   |            | 6- C                        |  | 10000                             |
| Providence construction of the second sec | 0   | S. 1       |                             |  |                                   |
| SGS Active Monitoring GW Wells  |   |            |                             | 1  |                                   |
|   |   |            |                             |  |                                   |
| GS Historical GW Wells  |   |            |                             |  |                                   |
|   |   |            |                             |  |                                   |
|   |   |            |                             | 1024104094101  |                                   |
| CD PLSS   | 216.272   |            |                             | 1011000  |                                   |
| \$\$ Townships  |   |            | PANEL<br>0501501325D        | DTW O 1162   |                                   |
| 3   |   |            | - 1 6442010                 |  |                                   |
| SS Frat Division  |   |            |                             |  |                                   |
| ermian Basin Karst Areas  |   |            |                             |  |                                   |
| it cel Kerst Resource Area  |   |            |                             |  |                                   |
| 2   |   |            | and the second second       | Artes  | 1 m m                             |
| init Occurrence Potential   |   | (3)        | annia B                     |  | -24                               |
| High  |   |            |                             |  |                                   |
| Medium  |   |            |                             |  |                                   |
| Lon   |   |            | Search result               | E X  |                                   |
| CD Districts and Offices  |   |            | 32*15*12 229*N 104*10 5     | 2.575'W  | _                                 |
| CD Districts and Onices   |   |            |                             |  |                                   |
|   |   |            | <u>Loom to</u>              |  |                                   |
| CD Districts  | and the second se |            | -                           |  |                                   |
| C   | -   | 194        |                             |  | 44                                |
| Stateman Aug  |   |            |                             |  |                                   |
| ational Flood Hazard Layer  |   |            | the second second           |  |                                   |
| RM Panels   |   |            | 349 ZTE PANEL               |  |                                   |
|   |   |            | 35015C1671D<br>eff.8/4/2010 |  |                                   |
| od Hazard Boundaries  |   |            | all 6-42010                 |  |                                   |
| 5FHA / Flood Zone Boundary  | 1000  |            |                             | No. of the local distance of the local dista |                                   |
|   | A 18  |            | 10                          |  |                                   |

Please let me know if you have any further questions.

Regards,

**Robert Hamlet** • Environmental Eng. Tech. III Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 505.748.1283 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



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

This message is strictly confidential and is for the sole use of the intended recipient. If you are not the intended recipient of this message, you may not disclose, print, copy, disseminate or otherwise use this message or the information included herein. If you are not the intended recipient, please reply and notify the sender (only) and promptly delete the message.

### Natalie Gordon

| From:    | John Hurt <jhurt@matadorresources.com></jhurt@matadorresources.com> |
|----------|---|
| Sent:    | Friday, November 20, 2020 10:17 AM                                  |
| То:      | Natalie Gordon  |
| Subject: | FW: New Mexico OCD Application Submission was Rejected by the OCD   |

From: OCDOnline@state.nm.us [mailto:OCDOnline@state.nm.us]
Sent: Friday, November 20, 2020 10:35 AM
To: John Hurt <JHurt@matadorresources.com>
Subject: New Mexico OCD Application Submission was Rejected by the OCD

#### \*\*EXTERNAL EMAIL\*\*

The Oil Conservation Division (OCD) has rejected the application PO: YOFWH-200727-C-1410. The original application was submitted by John Hurt for MATADOR PRODUCTION COMPANY.

The user added the additional comment:

"We have received your closure report and final C-141 for Incident #NRM2008758101 Tony La Russa St Com 201H-202H, thank you. This closure is denied.".

If you are concerned about receiving this email or have any other questions, please feel free to contact our Santa Fe OCD office.

### New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

This message is strictly confidential and is for the sole use of the intended recipient. If you are not the intended recipient of this message, you may not disclose, print, copy, disseminate or otherwise use this message or the information included herein. If you are not the intended recipient, please reply and notify the sender (only) and promptly delete the message.

Received by OCD: 12/5/2022 11228201PAM

Form C-141

Page 6

State of New Mexico Oil Conservation Division

| Incident ID    | NRM2008758101 |
|----------------|---------------|
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

EX Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

X Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

| Printed Name : John Hurt  | Title: RES Specialist   |
|---|---|
| Signature: Jourth   | Date: 7/27/20   |
| email:  | Telephone: 972-371-5200   |
| and and an and a second second                                      |   |
| OCD Only  |   |
|   |   |
| Received by: Robert Hamlet  | Date:11/20/2020   |
|   |   |
| Closure approval by the OCD does not relieve the responsible par    | ty of liability should their operations have failed to adequately investigate and |
|   | water, human health, or the environment nor does not relieve the responsible      |
| party of compliance with any other federal, state, or local laws ar | nd/or regulations.  |
|   |   |
| Closure Approved by: Denied   | Date: 11/20/2020  |
|   |   |
| Printed Name: Robert Hamlet   | Title: Environmental Eng. Tech. III   |
|   |   |

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

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

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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

CONDITIONS

| Operator:                  | OGRID:                                    |
|----------------------------|---|
| MATADOR PRODUCTION COMPANY | 228937                                    |
| One Lincoln Centre         | Action Number:                            |
| Dallas, TX 75240           | 163786                                    |
|                            | Action Type:                              |
|                            | [C-141] Release Corrective Action (C-141) |

#### CONDITIONS

| Created By | Condition  | Condition<br>Date |
|------------|--|-------------------|
| rhamlet    | We have received your closure report and final C-141 for Incident #NRM2008758101 TONY LA RUSSA STATE COM 201H/202H, thank you. This closure is approved. | 4/24/2023         |

Action 163786