

Calculation of the secondary release identified in a 2019 Google Earth Image

Impacted Soil Volume to Release Volume		
Inputs		
1 bbl	0.159	m ³
Chloride Impacted Soil Concentration	9,000	mg/kg
Chloride Background Concentration	100	mg/kg
Soil Bulk Density (fine sand)	1,500	kg/m ³
Produced Water Chloride Concentration (Estimated)	90,000	mg/L
Volume of release	1,544	yrd ³
	1,180	m ³
	53	m ³
Volume of Produced Water	330	bbls

Porosity	0.3
Chloride Mass	
15,759,284,625	mg
15,759.28	kg
4,727,785.39	g

Core equation

Calculate

$$M_{Cl_per_m^3} = C_{soil} \times \rho_b$$

Where:

- C_{soil} = chloride concentration (mg/kg)
- ρ_b = soil bulk density (kg/m³)

Then calculate volume of produced water

$$V_{pw} = \frac{M_{Cl_total}}{C_{pw}}$$

Where:

- C_{pw} = chloride concentration in produced water (mg/L)



25A-05896

Remediation Workplan

Federal 33 Com #001

NMOCD Incident: nAPP2100441738

NMSLO Lease/ROW: R334600000

NMSLO ROE: Submitted. Pending SLO Approval

Coordinates: 32.795847, -104.081882

Prepared for:

Ray Westall Operating, Inc.

Prepared by:

Vertex Resource Services Inc.

Date:

May 2026 (Revised)

Ray Westall Operating, Inc.

Federal 33 Com #001

Remediation Workplan

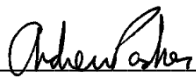
May 2026 (Revised)

Remediation Workplan
Federal 33 Com #001

On behalf of:
Ray Westall Operating, Inc.
P.O. Box 4
Loco Hills, New Mexico 88255

Prepared for:
New Mexico Oil Conservation Division
508 West Texas Avenue
Artesia, New Mexico 88210

Prepared by:
Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad, New Mexico 88220



Andrew Parker, MGIS
Project Manager, REPORT REVIEW

May 22, 2026
Date

Executive Summary

Vertex Resource Services Inc. (Vertex) submits this Remediation Workplan for the Federal 33 Com #001 (hereafter referred to as “Site”) on behalf of Ray Westall Operating, Inc. This workplan is intended to satisfy reporting requirements for the New Mexico Oil and Gas Conservation Division (NMOCD). Furthermore, this workplan replaces prior submissions and discusses actions conducted to date and proposes remedial actions for NMOCD Incident Number nAPP2100441738.

The conversion of the Federal 33 Com #001 from a gas well to an injection well is pending approval from the New Mexico State Land Office. The State Land Office – Environmental Compliance Office has requested that the NMOCD incident to be remediated/reclaimed before granting approval to inject. NMOCD approved Ray Westall Operating’s “Application for Authorization to Inject” on November 14, 2025.

On December 31, 2020, a release was reported by NMOCD during a routine site inspection. NMOCD’s Letter of Violation indicates a “Reportable spill on location that covers approximately 20 ft by 15 ft area”. The release was caused by a faulty valve at the wellhead. The operator submitted a C-141 on January 4, 2021 as a 5 bbl condensate release. As reported in the April 13, 2021 submission to NMOCD by R.T. Hicks Consultants; a legacy release from the wellhead was identified in a December 21, 2019 Google Earth aerial image and later confirmed during their on-site assessment.

Previous delineation sampling efforts were conducted in May 2021 and September 2022, by R.T. Hicks Consultants. Work consisted of obtaining characterization soil samples within both release extents followed by submission asking for closure of the incident. The R.T. Hicks Consultants’ 2022 and 2025 closure plans submitted to NMOCD were denied.

Ray Westall Operating retained Vertex on October 24, 2025 to submit a revised remediation plan and move the incident toward closure. Vertex conduct their site visit on November 4, 2025. Vertex contracted APAC to conducted a cultural survey as a portion of the 2019 release extended into pastureland. On December 30, 2025; a cultural survey report was completed and resulted in positive findings. The findings were not within the release extent.

The R.T. Hicks Consultants characterization data and an Electromagnetic Survey (EM Survey) performed by Vertex was used to develop proposed remedial actions. The SLO granted a temporary right-of-entry for the EM Survey and a cultural monitor was present during the survey.

Proposed remedial action are:

1. Dig-haul-dispose impacted soils on the active production pad to on-site Closure Criteria.
2. Dig-haul-dispose impacted soils within the pastureland to off-site Closure Criteria.

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1.0 Introduction

Vertex Resource Services Inc. (Vertex) submits this Remediation Workplan for the Federal 33 Com #001 (hereafter referred to as "Site") on behalf of Ray Westall Operating, Inc. This Remediation Workplan replaces prior submissions and discusses actions conducted to date and proposes remedial actions for NMOCD Incident Number nAPP2100441738. Relevant correspondence is presented in Appendix F.

This May 2026 revision addresses the following NMOCD rejection dated May 21, 2026:

- *Remediation plan is denied for the following reasons; 1. OCD does not acknowledge or accept a reclamation work plan within a remediation plan submittal. 2. Under section 4.2 of the report, remediation activities require sampling to be conducted per 19.15.29.12D NMAC. Any remediation activity not stated under 19.15.29.12D NMAC must be pre-approve via a variance prior to its implementation. 3. Ray Westall Operating has 90-days (August 19, 2026) to submit to OCD its appropriate or final remediation closure report.*

The reclamation work plan in Section 5 has been removed. Conformance to 19.15.29.13 NMAC is presented in Sections 4.1 and 4.2. Section 4 was updated to include a variance request asking for a 400 sq ft sampling area as an alternative to the 200 square feet. Additionally, within the on-site area, discrete soil samples will be collected to a depth of 4.5 feet representing a surface area not exceeding 400 sq ft.

The intended use remains an active production site for oil and gas operations. Therefore, two sets of Closure Criteria are presented. One set for on-site use and the second set for off-site use (pastureland).

2.0 Background

2.1 Access

The Site is located approximately 5.9 miles southwest of Loco Hills, New Mexico on New Mexico State Trust Lands. Figure 1 shows the Site relative to right-of-way boundaries.

Lease Holder: Ray Westall Operating, Inc.
SLO Lease/ROW: R334600000
SLO ROE: Submitted to SLO for approval
Unit Letter C. Section 33, Township 17 South, Range 29 East.
Eddy County
Latitude, Longitude: 32.795847, -104.081882

The Site can be accessed from the intersection of US-82W and S Old Loco Rd by heading south for 1.51 miles. Turn east and proceed east on a caliche lease road for 0.23 miles. Turn north and proceed north for 0.21 miles and arrive at Site.

A temporary right-of-entry (ROE) permit was obtained from the SLO to perform a February 10, 2026 EM Survey. The temporary ROE permit and page 1 of the APAC EM Survey cultural monitoring report (NMCRIIS Number 160532) is included in Appendix A. A cultural monitor was present during the EM Survey.

A right-of-entry permit application has been submitted to SLO and is pending approval. SLO-ECO will be provided a copy of the approved permit once received.

2.2 Site Description

The site is an active production pad for oil and gas operations (Figure 2). The northern portion of the Site includes a closed legacy pit. A sales line is located at the western edge of the production site and a tank battery is located along the eastern edge.

Surface is owned by State Trust Lands. Minerals owned are type specific and are either State or Federally owned. The Site is situated in a dune area surrounded by gravelly, sandy loam plains with grassy mesquite shrublands. Grama grasses and forbs are present adjacent to the production site.

2.3 Cultural Resources Compliance

On December 30, 2025, a cultural survey report was completed by APAC, a contract archeological firm. The report resulted in a positive finding. The findings were not within the release extent. To protect sensitive cultural significance, the locations of the cultural boundaries have been redacted from this submittal to prevent dissemination within the public record. Appendix A contains Page 1 of the cultural survey report referenced by NMCRIS Activity Number 160206. All ground disturbing actions within 100 feet of the cultural site boundary will require a cultural monitor to be present.

Any remedial activities requiring additional new surface disturbance or any cultural properties be encountered during the course of the remedial activities, appropriate measures will be taken in accordance with State regulations, including immediate cessation of work and notification to NMSLO's ECO division.

2.4 Ecological Setting

The Site is situated in the Chihuahuan Desert Grasslands level IV 24b Ecoregion (Griffith et al., 2006). This ecoregion is characterized as having the following natural vegetation: Black Gamma, Blue Gamma, Tobosa Grass.

The Site is within the Berino-Dune land complex (Plate 1, Appendix B) and classified as "Not prime farmland". The Berino-Dune land complex typical soil profile consists of:

- H1 – 0 to 17 inches: fine sandy loam
 - H2 – 17 to 50 inches: sandy clay loam
 - H3 – 50 to 60 inches: loamy sand
- With a depth to restrictive layer at more than 80 inches.

Mean annual air temperature is between 57 and 70 °F. Mean annual precipitation is between 8 to 15 inches and the frost-free period is between 180 and 230 days.

2.5 Biological Compliance

Review of critical habitats identified four (4) potentially affected species and no critical habitats. The biological desktop review is included in Appendix D. Critical habitats reviewed include:

- Birds
- Fishes
- Insects
- Refuge Lands
- Fish Hatcheries
- Wetlands

While no critical habitat was identified, remedial actions will proceed with caution in order to avoid potential impacts to threatened or proposed threatened species including, but not limited to the Northern Aplomado Falcon, Piping Plover, Monarch Butterfly, and Texas Hornshell. Worth notable mention is the Scheer's Beehive Cactus habitat 0.8 miles east of the Site.

In the event that any special status species are encountered during reclamation activities, appropriate measures will be implemented. These measures will include immediate cessation of work in the affected area, consultation with a qualified biologist, and coordination with NMSLO and relevant environmental agencies to determine the necessary protection and mitigation strategies.

2.6 Open Environmental Incident Search

Incident nAPP2100441738 is assigned to the Site according to NMOCD Incidents and Spill search. The release was discovered on December 31, 2020. The C-141 identifies a condensate release where 5 bbl was lost. Below is a list of key incident events listed on the NMOCD portal.

12/31/2020	Discovery of release. Reported by NMOCD. 20 ft x 15 ft area.
01/04/2021	C-141 submitted to NMOCD. Condensate. 5 bbls.
03/26/2021	R.T. Hicks Consultants submits closure sampling and reporting plan.
04/13/2021	R.T. Hicks Consultants submits revised closure and sampling plan to include legacy release shown in a December 21, 2019 Google Earth aerial photo.
06/10/2021	R.T. Hicks Consultants submits characterization and site restoration plan.
06/08/2022	NMOCD denies R.T. Hicks Consultants June 2021 plan. Depth to water not adequately determined.
09/23/2022	R.T. Hicks Consultants submits revised characterization report dated 08/25/2022.
09/23/2022	NMOCD denies R.T. Hicks Consultants August 2022 plan. Depth to water not adequately determined. Natural reclamation is not approved.
10/01/2025	R.T. Hicks Consultants resubmits August 2022 plan with portions removed.
11/05/2025	NMOCD email dated 10/17/2025 to R.T. Hicks Consultants, Ray Westall Operating, and State Land Office stating that the October 2025 resubmission is not a sampling plan and is denied.
11/05/2025	R.T. Hicks Consultants submits a Pre-Closure Sampling Plan dated 10/03/2025.
11/13/2025	Vertex submits an extension request on 11/10/2025. NMOCD denies the extension asking for a submission of a site characterization/remediation plan as soon as possible.

3.0 Site Evaluation

Vertex performed their initial site assessment of the subject release on November 4, 2025. The Site remains an active production pad for oil and gas operations and is pending SLO approval for a conversion to an injection well. NMOCD approved Ray Westall Operating's "Application for Authorization to Inject" on November 14, 2025.

The focus of the site visit was to visually inspect the subject releases relative to current condition. Figure 3 shows the release extent visible on the December 21, 2019 Google Earth aerial image and release outline as mapped by R.T. Hicks Consultants. Vertex agrees with the previously mapped release extent.

The on-site assessment identified:

- No surface indication of the reported condensate release near the wellhead as recorded on the December 31, 2020 NMOCD Letter of Violation. The reported condensate release covered a 10 ft x 15 ft area.
- On-site surface staining from the 2019 legacy release is visible, encompassing the wellhead and tank battery.
- Pin flags set by R.T. Hicks Consultants marked proposed sample locations as presented in their October 3, 2025 pre-closure sampling plan.
- Vegetation within the off-site release extent beginning to naturally restore (Exhibit 1, below). Additional site photos are available in Appendix E.



Exhibit 1: Photo viewing northwest toward production pad obtained from the southeast edge of the release extent. Vegetation is beginning to naturally recover.

3.1 Characterization Requirements

Closure Criteria determination is summarized in Table A and visualized on Plates 2 through 9 (Appendix B). The Site is in a low karst potential area and depth-to-water >100 ft.

3.1.1 Depth-to-Water Determination

A monitoring well drilled by Terracon^{1,2} in 2025 was used to determine that groundwater is greater than 100 feet below ground surface (bgs). The well is identified on Plate 2 as MISC-413 (MW-02) located 0.46 miles northwest of the release extent. The monitoring well was gauged on March 8, 2025 with a depth-to-water of 134.8 feet. The Terracon well logs are reproduced in Appendix C.

3.1.2 Closure Criteria

Closure Criteria per Table 1 of 19.15.29 NMAC and 19.15.29.13 A-D is defined as:

Table 1. Closure Criteria for Soils		
Depth-to-Water > 100 feet. Low Karst Potential.	Constituent	Limit
< 4 ft below ground surface and area is not on an active production site in-use for oil and gas operations.	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	GRO+DRO	--
	BTEX	50 mg/kg
	Benzene	10 mg/kg
- Active production site in-use for oil and gas operations. - Or, > 4 ft below ground surface	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

Note that the above table specifies Closure Criteria for on-site and off-site areas.

3.2 Soil Characterization

The 2020 condensate release that comingled with the 2019 legacy release is considered one release for the purpose of characterization. For further clarification, the release is divided into two Areas of Interest (AOIs):

- AOI #1. The release extent that is on-site.
- AOI #2. The release extent that is off-site (pastureland).

On-site vs Off-site was determined by evaluating surface disturbance observed on a July 12, 1977 aerial photograph (Figure 4). The 1977 aerial was also relied upon to identify the legacy reserve pit extent.

¹ https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/SupportingDocuments/app/app_504743_1280250.pdf

²

<https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/OperatorData/ActionStatusItem.aspx?ab=111,18,129,42,229,0,246,170&cd=95,222,152,178,5,144,65,51&ef=100,102,52,232,27,24,119,144,160,22,3,29,94,81,23,126&gh=100,102,52,232,27,24,119,144,160,22,3,29,94,81,23,126>

Prior sampling identified soil salinity (chloride) as the primary constituent of concern. Select samples were analyzed for Benzene, BTEX, and/or TPH. Samples that were analyzed for hydrocarbons exhibit concentrations below Closure Criteria.

Table B is a summary of analytical reproduced from soil characterization data collected by R.T. Hicks Consultants. Figure 5 shows characterization soil sample locations, reproduced from the R.T. Hicks Consultants reports, relative to the release extent. Laboratory Certificates of Analyses and Chain of Custody forms are presented in Appendix G.

To baseline current salinity concentrations, Vertex performed an electromagnetic survey (EM Survey) for non-intrusive characterization. The non-intrusive EM Survey was the agreed upon method in coordination with the State and contract archeologist to confirm that the release did not trespass into culturally sensitive areas. Evaluation of the EM Survey data concludes that the release did not trespass into culturally sensitive areas.

3.2.1 Characterization Soil Sampling

The 2021 and 2022 characterization soil sampling event had an exploration depth to 4.5 feet below ground surface (bgs) for both on-site and off-site areas. All on-site soil samples met Closure Criteria from 0 to 4.5 feet bgs with the exception of sample "A". In May 2021, chloride exhibit 25,000 mg/kg at the surface. However, samples collected in 2021 and 2022 representing 0-2, 0-4, and 4.25-4.5 feet bgs were below Closure Criteria.

Two samples (H and I) were collected off-site and within the release extent. Both samples exceeded chloride Closure Criteria in the upper 4-feet. Samples G, J, and K define the off-site release horizontal extent to the east, south, and west; respectively. Samples G, J, and K met off-site Closure Criteria for chloride, Benzene, and BTEX. TPH was not analyzed.

3.2.2 EM Survey Results

An EM Survey measures soil salinity as Apparent Electrical Conductivity (ECa). Using a conversion factor, ECa is converted to Effective Electrical Conductivity (ECe) for cross-reference to the NRCS Salinity Classes, defined as

NRCS Field Guide Salinity Class	Effective Electrical Conductivity (dS/m)
Nonsaline	<2
Very Slightly Saline	2 - 4
Slightly Saline	4 - 8
Moderately Saline	8 - 16
Strongly Saline	>16

ECe measurements from EM Surveys were compared to soil chloride laboratory results. Evaluation of the data shows that an ECe between 1 and 2 dS/m correlates with a chloride concentration < 600 mg/kg.

A Geonics EM31 was used for the EM Survey. The EM31 measures soil salinity from the surface to a depth of approximately 18-feet. The 2 dS/m ECe isocontour closely correlates with the release outline with the exception of metal inference (discuss below) adjacent to and northeast of the wellhead. The legacy reserve pit shows a slightly elevated ECe measurement of 2 to 4 dS/m, which is a typical ECe measurement for a closed legacy pit showing signs of surface revegetation.

Figure 6 shows soil salinity (ECe) with the instrument in the horizontal position. The greatest instrument sensitivity reading in the horizontal position is near the surface with a total exploration depth of 9 feet. The high ECe readings northeast of the wellhead (Source point) is likely the result of metal interference, which has an effect on electrical conductivity readings. Southeast of the release source point within the release extent, ECe readings decrease with distance. Off-site and further to the southeast is an area where ECe increase to 6 dS/m (slightly saline). A review of the December 2019 Google Earth aerial shows this same area where the release likely pooled at the surface.

Figure 7 shows soil salinity (ECe) with the instrument in the vertical position. The greatest instrument sensitivity reading in the vertical position is at 3.5 foot depth with a total exploration depth of 18 ft. A slightly saline (ECe = 6 dS/m) area was detected on-site at 35 feet southeast of the source point. The off-site saline area to the southeast was also detected, although with a slightly less ECe reading of 4 dS/m.

Comparing Figure 6 to Figure 7,

- The suspect metal interference to the northeast of the source point was likely caused by metal near the surface as the instrument in the vertical position showed no influence of metal sensitivity at 3.5 feet bgs.
- ECe reading 35 feet southeast of the source point suggests that the chlorides remain near the surface. The ECe readings in the horizontal position are greater than the ECe readings in the vertical position, 7 dS/m compared to 6 dS/m respectively.
- ECE reading off-site to the southeast and within the release extent show a similar effect as the above bullet point. The ECe readings in the horizontal position are greater than the ECe readings in the vertical position, 6 dS/m compared to 4 dS/m respectively.

4.0 Remediation Work Plan

For the purpose of this document and to conform to SLO-ECO nomenclature, soil suitability is defined as:

- Suitable Soils – soils that meet closure Criteria concentrations and consists of compositions that support vegetative growth (i.e. topsoil).
- Unsuitable Soils – soils that exceed Closure Criteria.
- Undesirable Soils – soils that meet Closure Criteria and consists of caliche, gypsum, limestone or compositions that inhibit vegetation growth.

Figure 8 shows the proposed remediation areas discussed below.

4.1 Soil Sample Variance Request

RWO respectfully asks NMOCD for variance approval for a 400 sq ft sampling area (grid). The requested sample grid size will provide equal protection of fresh water, public health, and the environment according

to the “10% Condition”³ that states sample sizes should be no more than 10% of the population (release area) as long as it does not exceed 1,000⁴ samples. Applying the 10% Condition, a sample grid size of 400 sq ft meets this condition.

Population (sq ft area)	Sample Size (grid sq. ft.)	No. of Sample Grids	% of Population (sq. ft. area)	Representative of Population	Meets 10% Condition
10,425	200	52	1.9%	98.1%	Yes
10,425	300	217	2.9%	97.1%	Yes
10,425	400	26	4%	96%	Yes
10,425	500	21	5%	95%	Yes

The proposed 400 sq. ft. sampling grid statistically provides equal significance of laboratory results as a 200 sq. ft. sampling grid for the constituents listed in Table 1 of 19.15.29 NMAC, where

- The 10% Condition is met.
- The proposed sample grid size represents 96% of the population (release area).

The second variance request applies only to on-site soil samples. No excavation is anticipated on the active production pad. Therefore, RWO respectfully asks NMOCD to approve discrete samples as an alternative to 5-point composites. Discrete samples will be collected from drilling cores from 0 to 4 feet below ground surface and at 4.5 feet below ground surface, not representing a surface area greater than 400 sq. ft.

4.2 Off-site Remediation/Reclamation

Excavation of unsuitable soils in the off-site release area will start in the central section. Excavation will extend horizontally and vertically until all base and wall samples meet off-site Closure Criteria. Five-point composite confirmation samples will be obtained from base and wall areas where excavation occurs; not exceeding an area of 400 sq. ft per composite sample. Soil samples will be analyzed for benzene, BTEX, chloride, and TPH per Table 1 of 19.15.29 NMAC. Upon laboratory confirmation that soil concentrations meet Closure Criteria, the excavation area will be reclaimed as pastureland according to 19.15.29.13 A-E NMAC.

To meet Closure Criteria requirements, it is anticipated that excavation will occur to a depth of 4 feet. An estimated 676 (=4562 sq ft x 4 ft/27) cubic yards of impacted material will be removed from the site and transported to an approved disposal facility.

4.3 On-Site Remediation/Restoration

The R.T. Hicks Consultants 2022 soils sampling data and the EM Survey results suggest that chloride and hydrocarbon concentrations meet Closure Criteria for areas on-site and in-use for oil and gas operations. We propose to obtain discrete samples from 0 to 4 feet below ground surface and at 4.5 feet below ground surface to confirm that chloride and hydrocarbon concentrations are below Closure Criteria for on-site use. Additional discrete soils samples will be collected to obtain horizontal delineation to the most stringent Closure Criteria for the upper 4-feet. Discrete sample locations will not represent a surface area

³ <https://web.ma.utexas.edu/users/mks/M358KInstr/TenPctCond.pdf>

⁴ <https://tools4dev.org/resources/how-to-choose-a-sample-size/>

greater than 400 sq. ft. The on-site release surface area is approximately 5,863 sq ft.; requiring 15 discrete samples. Seven (7) discrete samples will be collected around the perimeter for horizontal delineation. Proposed on-site sample locations are mapped on Figure 8.

If proposed soil samples exceed Closure Criteria for on-site use, excavation will commence horizontally and vertically until all base and wall samples meet on-site Closure Criteria. Five-point composite confirmation samples will be obtained from base and wall areas where excavation occurs; not exceeding an area of 400 sq. ft per composite sample. Soil samples will be analyzed for benzene, BTEX, chloride, and TPH per Table 1 of 19.15.29 NMAC. Upon laboratory confirmation that soil concentrations meet on-site Closure Criteria, the excavated area will be backfilled with clean, non-waste containing material suitable to support oil and gas activities and restored as an active production pad. Excavated material will be removed from the site and transported to an approved disposal facility.

When the on-site area is no longer in-use for oil and gas operations, the area will be remediated and reclaimed to meet Closure Criteria for areas no longer in-use according to 19.15.29.13 A-E NMAC.

All backfill material will be sampled and analyzed for benzene, BTEX, chloride, and TPH. Backfill material will meet the most stringent Closure Criteria listed in Table 1 of 19.15.29 NMAC.

5.0 Proposed Schedule

- May 2026 – Remediation Plan approved by NMOCD.
- June 2026 – Execution of remediation as proposed above.
- July 2026 – Remediation Closure report to NMOCD.
- August 2026 – Final Reclamation Closure Report.

6.0 References

Google Inc. (2025). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>

Griffith, G.E., Omernik, J.M., McGraw, M.M., Jacobi, G.Z., Canavan, C.M., Schrader, T.S., Mercer, D., Hill, R., and Moran, B.C. (2006). *Ecoregions of New Mexico*. Available at: <https://www.epa.gov/eo-research/ecoregion-download-files-state-region-6#pane-29>

Natural Resources Conservation Service. (2012, Reprint 2021). *Field Book for Describing and Sampling Soils Version 3.0*. National Soil Survey Center: Natural Resources Conservation Service. U.S. Department of Agriculture. Pg. 2-89. Retrieved from: <https://www.nrcs.usda.gov/sites/default/files/2022-09/field-book.pdf>

New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.

United States Department of Agriculture, Natural Resources Conservation Service. (2024). *Web Soil Survey*. Retrieved from: <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

United States Fish and Wildlife Service, Ecological Services Program. (2025). *IPaC: Information for Planning and Consultation*. Retrieved from <https://ipac.ecosphere.fws.gov/location/index>

7.0 Limitations

This report has been prepared for the sole benefit of Ray Westall Operating, Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the New Mexico State Land Office, without the express written consent of Vertex Resource Services Inc. (Vertex) and Ray Westall Operating, Inc. 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.

Tables



Vertex Resource Services, Inc.
Colorado • New Mexico • Texas

Federal 33 Com #001
 Incident ID: nAPP2100441738
 32.79590, -104.08190
 UL C. T17S.29E. Sec. 33

Table A. Closure Criteria Determination (19.15.29 NMAC)	Criteria	Map
What is the shallowest depth to groundwater (ft bgs)	134.8 ft DTW 0.46 miles NW of location	Plate 2
What measure was used to determine this?	Incident nAPP2110253617 ^{1,2}	MW-02
Did this release impact ground or surface water?	no	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse.	Intermittent Stream 679 ft NE of location	Plate 3
Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark).	Lake/Pond 2.81 miles SSE of location	Plate 3
An occupied permanent residence, school, hospital, institution or church.	Business location 1.45 miles NE of location	Plate 5
A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes.	102.4 ft DTW 0.51 miles NW of location (aerial imagery show tank and cattle)	Plate 3/4
Any other fresh water well or spring.	102.4 ft DTW 0.51 miles NW of location	Plate 3/4
Incorporated municipal boundaries or a defined municipal fresh water well field.	Active Groundwater system 11.83 miles west of location	5.47 mi ENE (municipal boundary)
A wetland.	Freshwater Emergent Wetland 2923 ft south of location	Plate 6
A subsurface mine.	7.59 miles SE of location	Plate 7
A (non-karst) unstable area.		
Categorize the risk of this well/site being in a karst geology.	Low. 0.97 miles to nearest medium Karst (NE); 1.96 miles to nearest high Karst (NE)	Plate 8
A 100-year floodplain.	607 ft NE of location	Plate 9

¹ https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/SupportingDocuments/app/app_504743_1280250.pdf

²

<https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/OperatorData/ActionStatusItem.aspx?ab=111,18,129,42,229,0,246,170&cd=95,222,152,178,5,144,65,51&ef=100,102,52,232,27,24,119,144,160,22,3,29,94,81,23,126&gh=100,102,52,232,27,24,119,144,160,22,3,29,94,81,23,126>

04/14/2026

Table B
Summary of Analytical
Source: R.T. Hicks Consultants

Ray Westall Operating
Federal 33 Com #1

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Area (on/off site)	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Lab	Lab #
Closure Criteria												
0 - 4 feet & "not in-use"						600	--	100	10	50		
> 4 ft or "in-use"						20,000	1,000	2,500	10	50		
NS-1	9/21/2022		0	2	On-Site	100	--	--	--	--	HEAL	2209C74
NS-1	9/21/2022		0	4	On-Site	130	69	69	ND	ND	HEAL	2209C79
NS-1	9/21/2022		4.25	4.5	On-Site	110	ND	ND	ND	ND	HEAL	2209C81
NS-2	9/21/2022		0	2	On-Site	18,000	--	--	--	--	HEAL	2209C74
NS-2	9/21/2022		0	4	On-Site	19,000	ND	ND	ND	ND	HEAL	2209C79
NS-2	9/21/2022		4.25	4.5	On-Site	11,000	ND	ND	ND	ND	HEAL	2209C81
A	5/7/2021	0			On-Site	25,000	--	--	ND	ND	HEAL	2105386
A	5/7/2021		0	4	On-Site	17,000	--	--	ND	ND	HEAL	2105386
A	5/7/2021	4.25			On-Site	11,000	--	--	ND	ND	HEAL	2105386
A	9/21/2022		0	2	On-Site	9,300	--	--	--	--	HEAL	2209C74
A	9/21/2022		0	4	On-Site	14,000	20	95	ND	ND	HEAL	2209C79
A	9/21/2022		4.25	4.5	On-Site	15,000	94	94	ND	ND	HEAL	2209C81
B	5/7/2021		0	4	On-Site	14,000	--	--	ND	ND	HEAL	2105386
B	5/7/2021	4.25			On-Site	13,000	--	--	ND	ND	HEAL	2105386
C	5/7/2021		0	4	On-Site	8,700	--	--	ND	ND	HEAL	2105386
C	5/7/2021	4.25			On-Site	8,800	--	--	ND	ND	HEAL	2105386
C	9/21/2022		0	2	On-Site	8,800	--	--	--	--	HEAL	2209C74
C	9/21/2022		0	4	On-Site	8,100	ND	ND	ND	ND	HEAL	2209C79
C	9/21/2022		4.25	4.5	On-Site	3,700	ND	ND	ND	ND	HEAL	2209C81
D	5/7/2021		0	4	On-Site	8,800	--	--	ND	ND	HEAL	2105386
D	5/7/2021	4.25			On-Site	9,000	--	--	ND	ND	HEAL	2105386
E	5/7/2021		0	4	On-Site	17,000	--	--	ND	ND	HEAL	2105386
E	5/7/2021	4.25			On-Site	19,000	--	--	ND	ND	HEAL	2105386
E	9/21/2022		0	2	On-Site	810	--	--	--	--	HEAL	2209C74
E	9/21/2022		0	4	On-Site	1,700	66	66	ND	ND	HEAL	2209C79
E	9/21/2022		4.25	4.5	On-Site	1,300	ND	ND	ND	ND	HEAL	2209C81
F	5/7/2021		0	4	On-Site	5,000	--	--	ND	ND	HEAL	2105386
F	5/7/2021	4.25			On-Site	6,200	--	--	ND	ND	HEAL	2105386
F	9/21/2022		0	2	On-Site	85	--	--	--	--	HEAL	2209C74
F	9/21/2022		0	4	On-Site	690	ND	ND	ND	ND	HEAL	2209C79
F	9/21/2022		4.25	4.5	On-Site	1,600	ND	ND	ND	ND	HEAL	2209C81
G	5/7/2021		0	4	Off-site	ND	--	--	ND	ND	HEAL	2105386
G	5/7/2021	0			Off-site	ND	--	--	ND	ND	HEAL	2105386
G	5/7/2021	4.25			Off-site	ND	--	--	ND	ND	HEAL	2105386

04/14/2026

Table B
Summary of Analytical
Source: R.T. Hicks Consultants

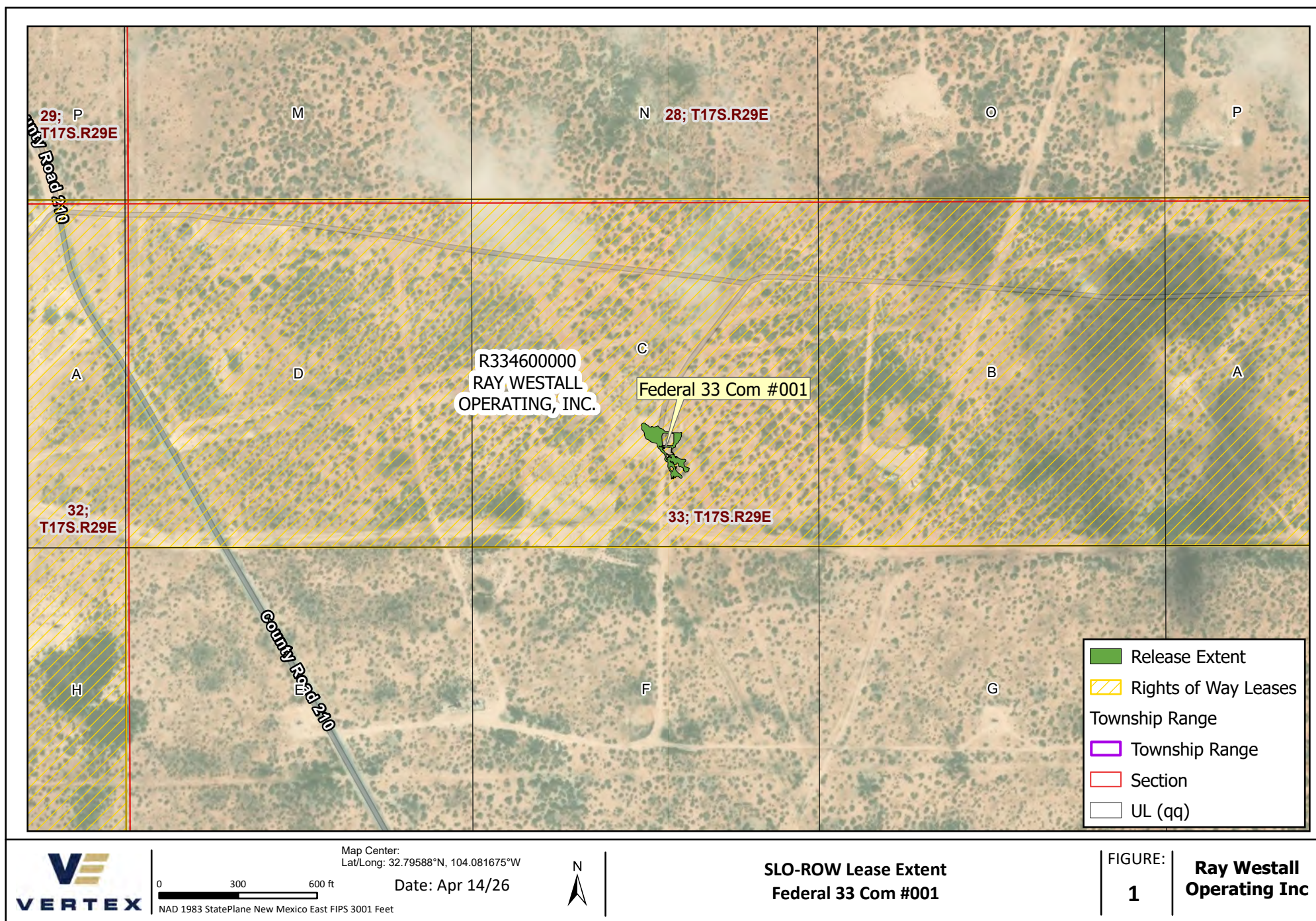
Ray Westall Operating
Federal 33 Com #1

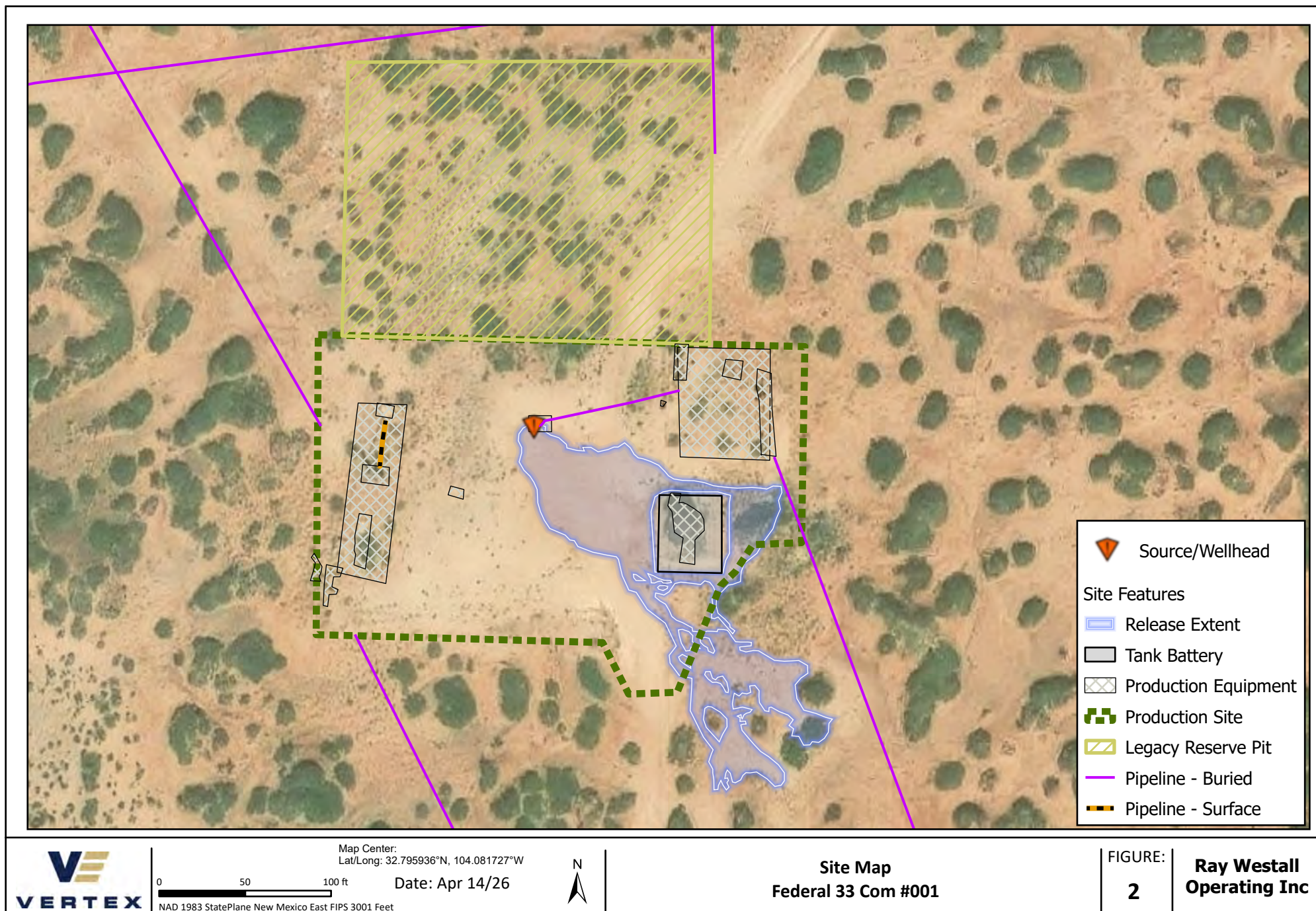
Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Area (on/off site)	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Lab	Lab #
Closure Criteria												
0 - 4 feet & "not in-use"						600	--	100	10	50		
> 4 ft or "in-use"						20,000	1,000	2,500	10	50		
H	5/7/2021		0	4	Off-site	6,200	--	--	ND	ND	HEAL	2105386
H	5/7/2021	4.25			Off-site	4,000	--	--	ND	ND	HEAL	2105386
H	9/21/2022		0	2	Off-site	160	--	--	--	--	HEAL	2209C74
H	9/21/2022		0	4	Off-site	2,200	ND	ND	ND	ND	HEAL	2209C79
H	9/21/2022		4.25	4.5	Off-site	8,500	ND	ND	ND	ND	HEAL	2209C81
I	5/7/2021		0	4	Off-site	8,800	--	--	ND	ND	HEAL	2105386
I	5/7/2021	4.25			Off-site	7,200	--	--	ND	ND	HEAL	2105386
I	9/21/2022		0	2	Off-site	5,400	--	--	--	--	HEAL	2209C74
I	9/21/2022		0	4	Off-site	9,500	ND	ND	ND	ND	HEAL	2209C79
I	9/21/2022		4.25	4.5	Off-site	8,300	ND	ND	ND	ND	HEAL	2209C81
J	5/7/2021		0	4	Off-site	ND	--	--	ND	ND	HEAL	2105386
J	5/7/2021	4.25			Off-site	ND	--	--	ND	ND	HEAL	2105386
K	5/7/2021		0	4	Off-site	ND	--	--	ND	ND	HEAL	2105386
K	5/7/2021	4.25			Off-site	60	--	--	ND	ND	HEAL	2105386
P-1	9/21/2022		0	2	Unknown	ND	ND	ND	ND	ND	HEAL	2209C76
P-1	9/21/2022		0	4	Unknown	180	ND	ND	ND	ND	HEAL	2209C76
P-1	9/21/2022		4.25	4.5	Unknown	440	ND	ND	ND	ND	HEAL	2209C76
P-2	9/21/2022		0	2	Unknown	ND	ND	ND	ND	ND	HEAL	2209C76
P-2	9/21/2022		0	4	Unknown	76	ND	ND	ND	ND	HEAL	2209C76
P-2	9/21/2022		4.25	4.5	Unknown	210	ND	ND	ND	ND	HEAL	2209C76
Data collected in 2022												
Data collected in 2022												
Exceeds Closure Criteria												

Figures



Vertex Resource Services, Inc.
Colorado • New Mexico • Texas

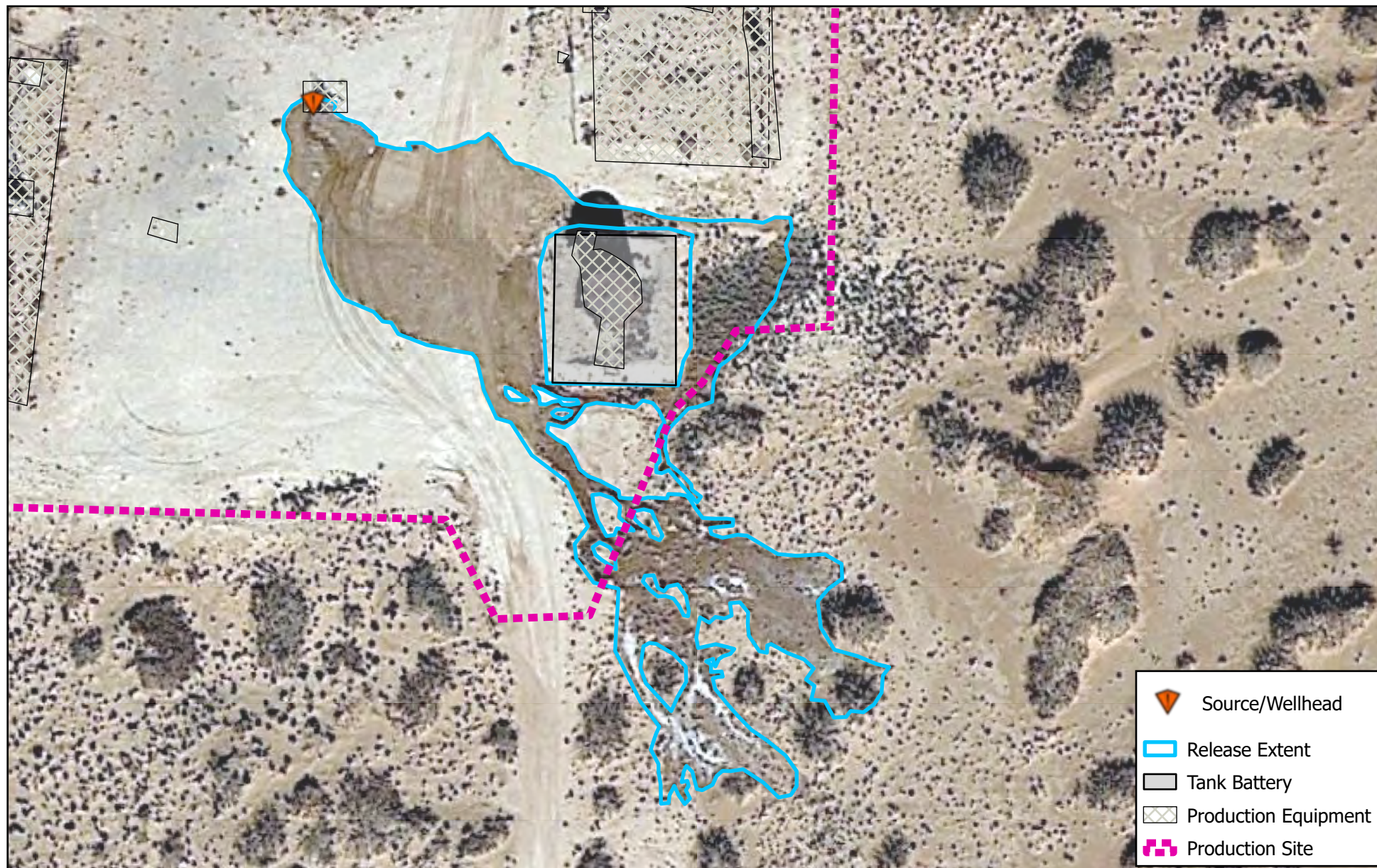




Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.



Map Center:
Lat/Long: 32.795658°N, 104.081607°W
Date: Apr 14/26
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



Release Extent as Shown on a
December 21, 2019 Google Earth Aerial Image
Federal 33 Com #001

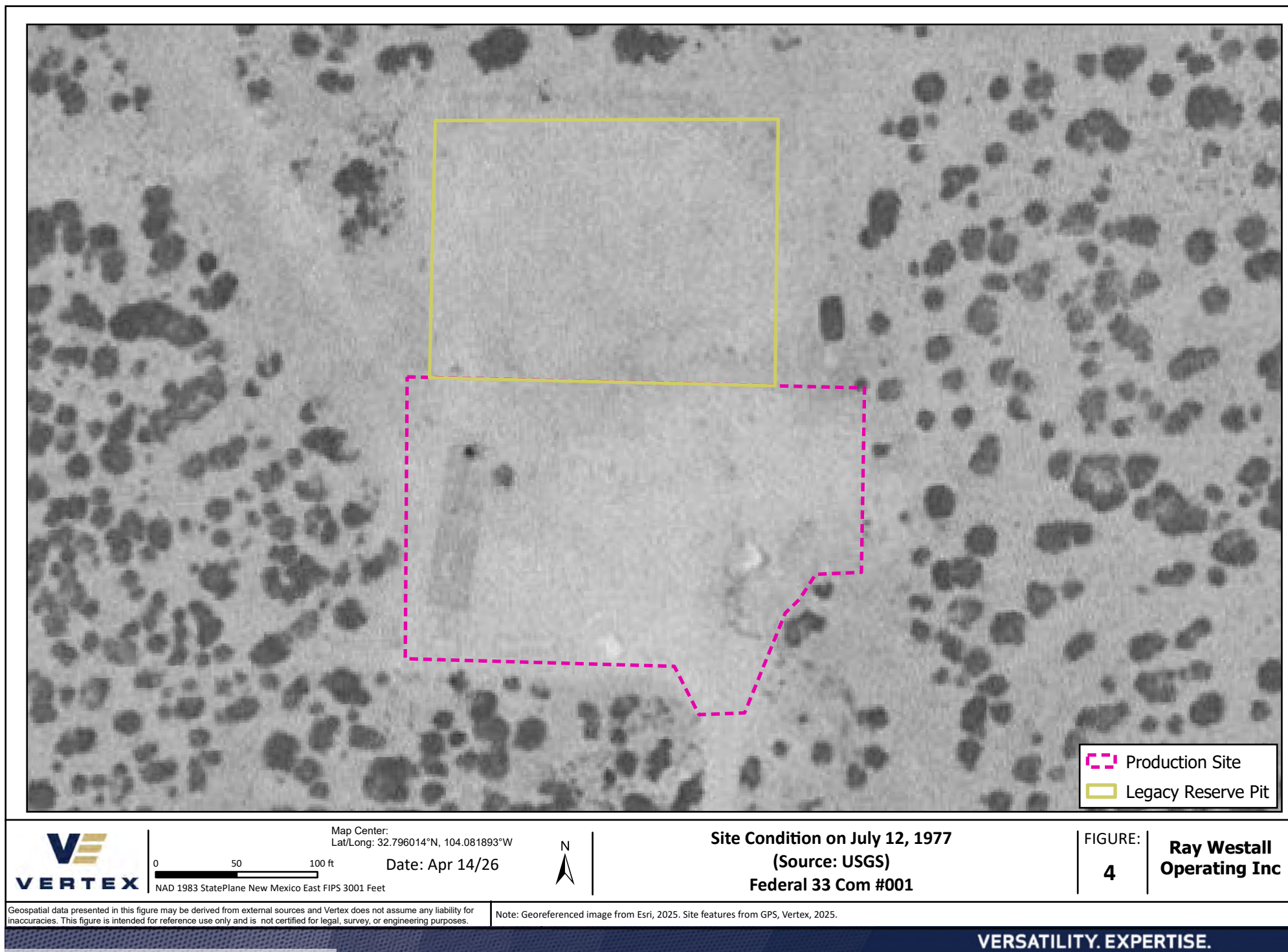
FIGURE:
3

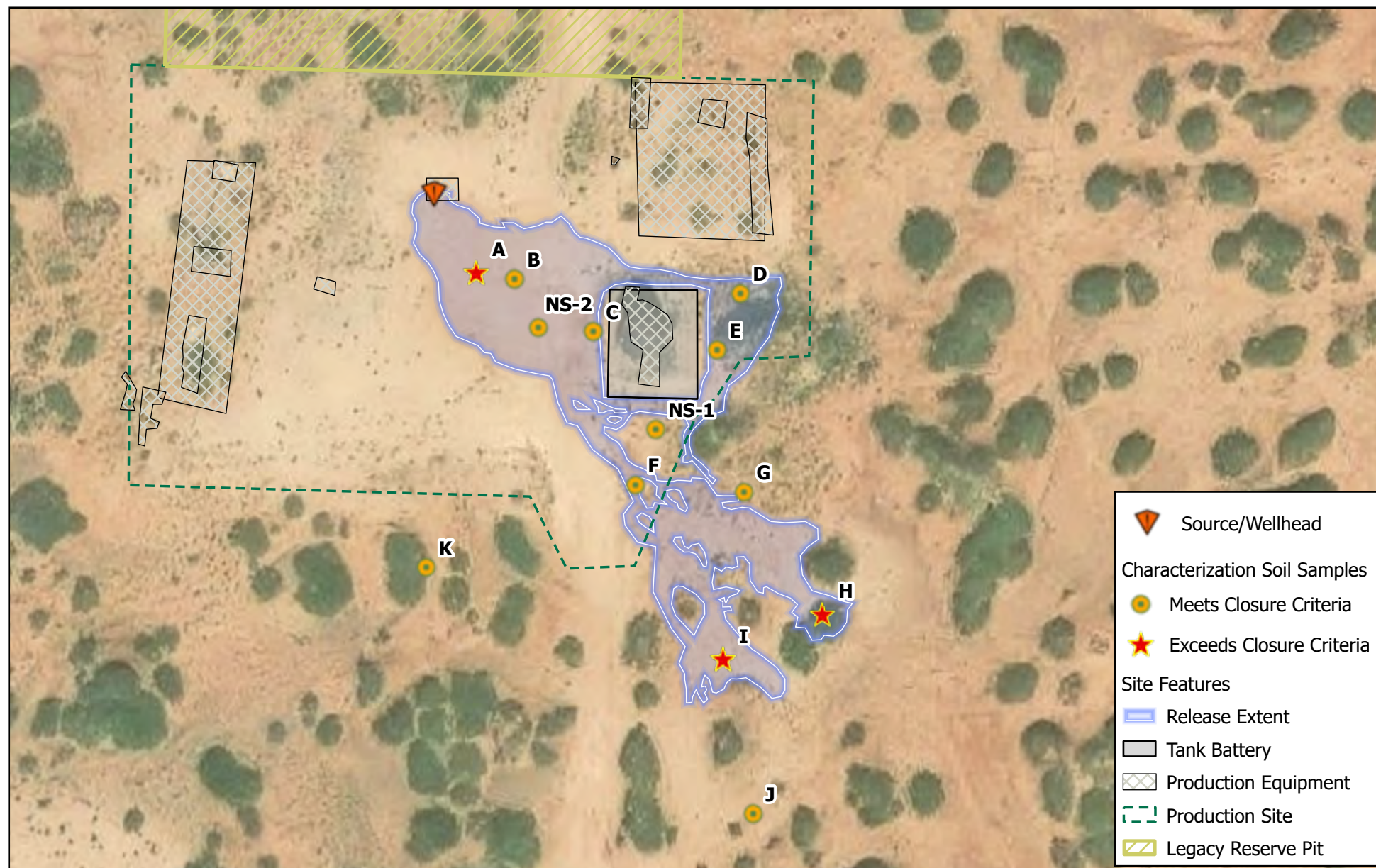
Ray Westall
Operating Inc

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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.





0 25 50 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.795656°N, 104.081629°W

Date: Apr 14/26



Characterization Soil Sample Locations
Source: R.T. Hicks Consultants
Federal 33 Com #001

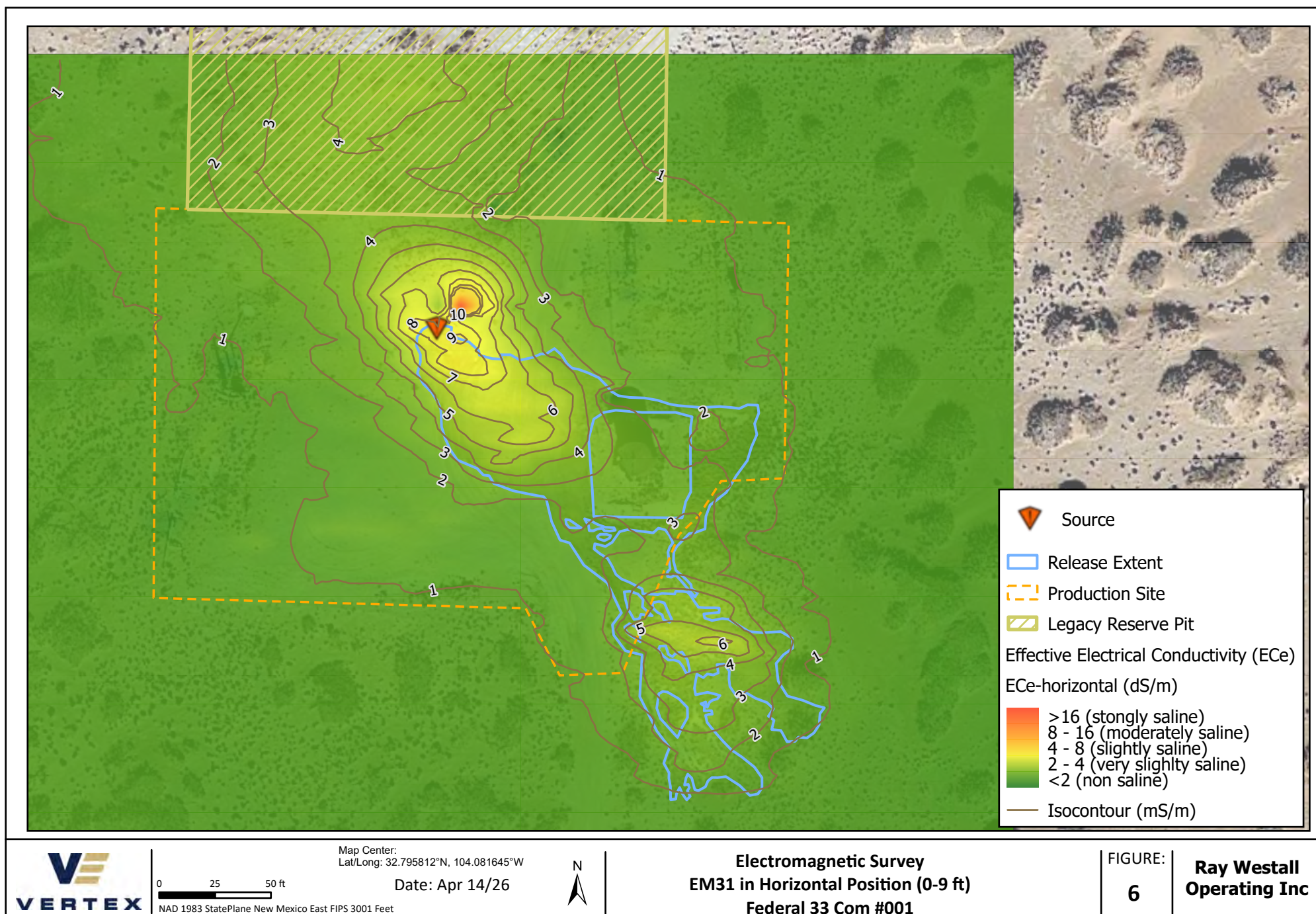
FIGURE:
5

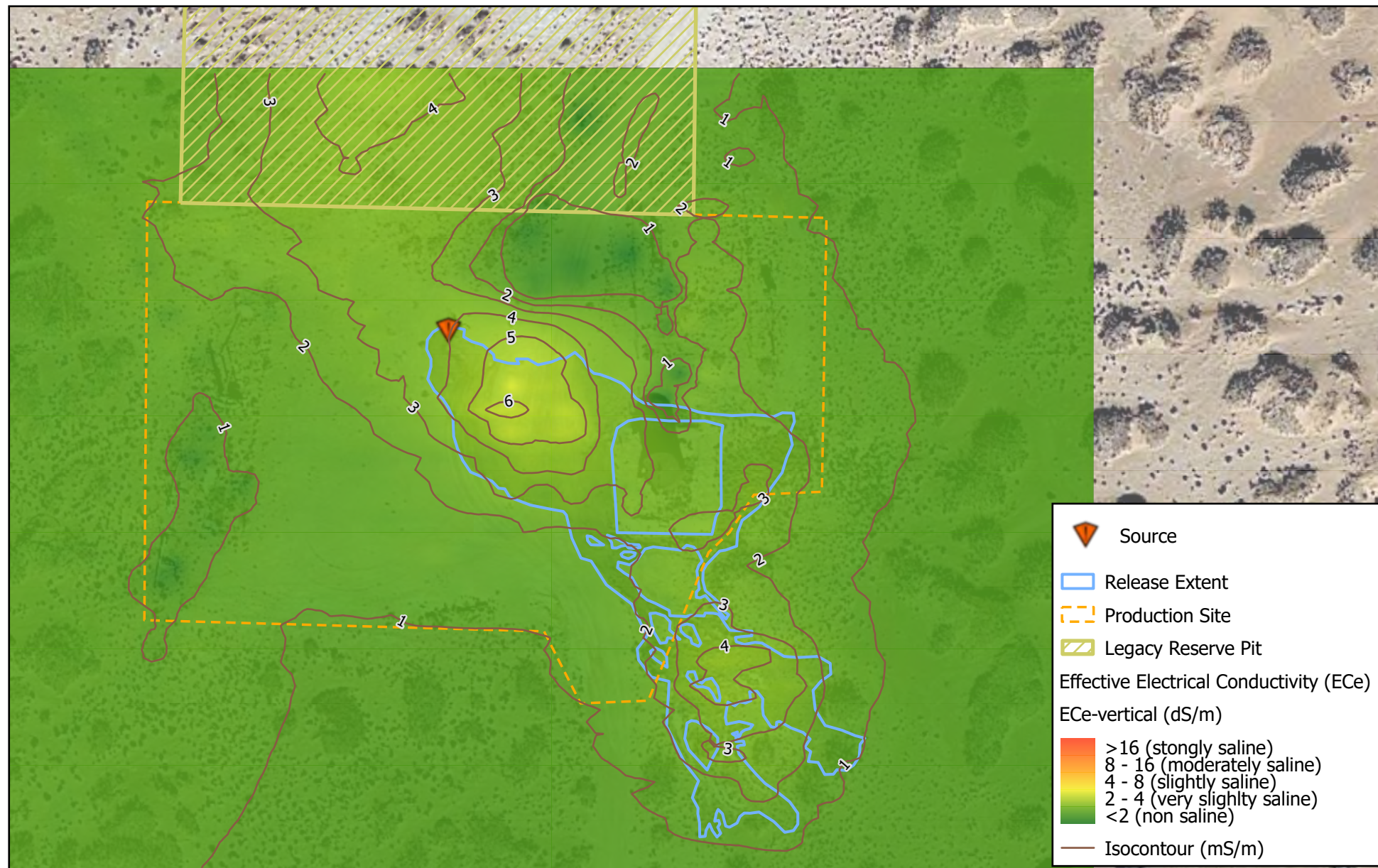
Ray Westall
Operating Inc

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.





Map Center:
Lat/Long: 32.795812°N, 104.081645°W
Date: Apr 14/26
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



Electromagnetic Survey
EM31 in Vertical Position (3.5-18 ft)
Federal 33 Com #001

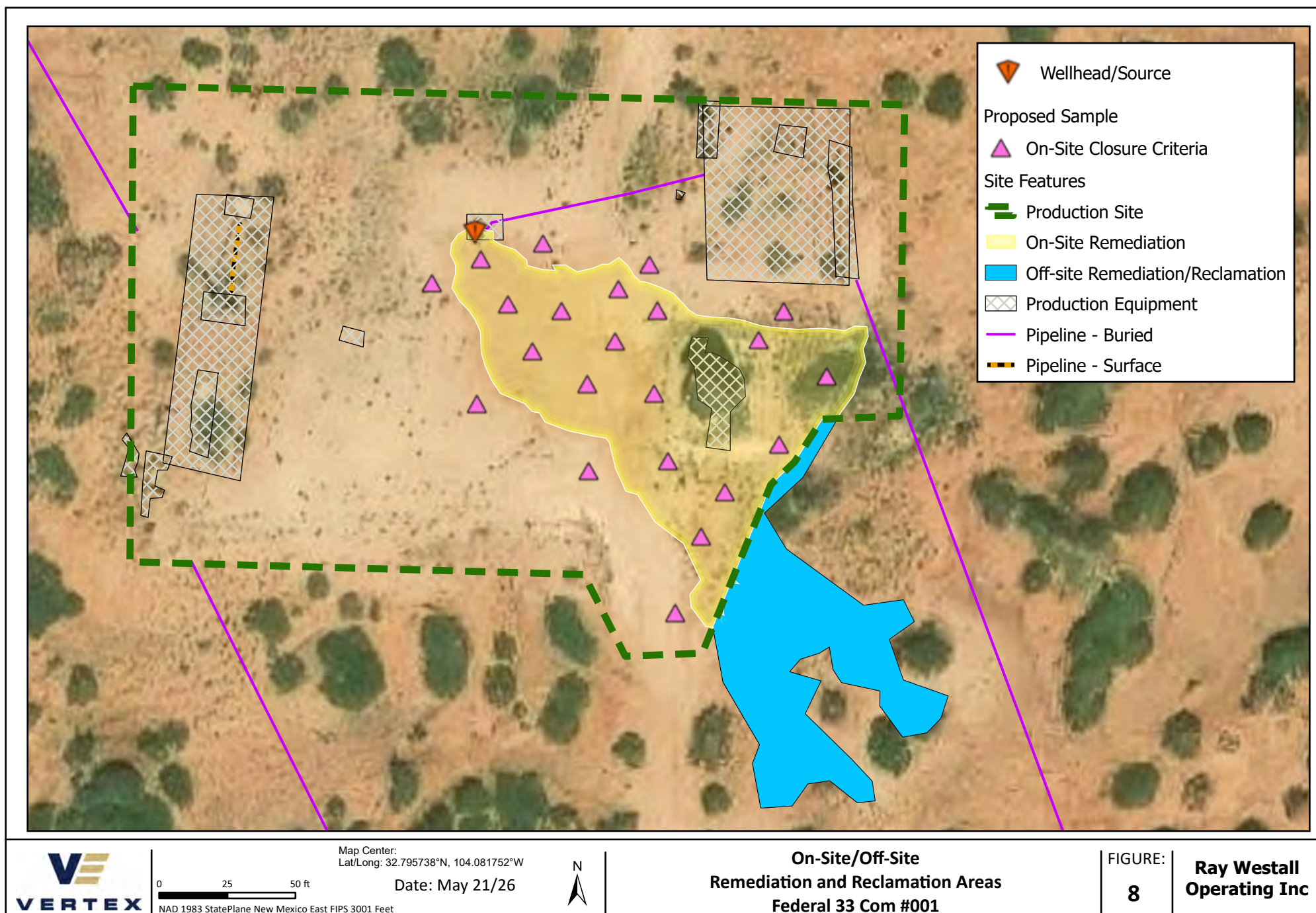
FIGURE:
7

Ray Westall
Operating Inc

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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.



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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.

Appendix A

ROE/Cultural Survey



Vertex Resource Services, Inc.
Colorado • New Mexico • Texas

C-145

Page 1 of 3

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

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

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

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

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

Form C-145
Revised May 19, 2017
Permit 261817

Previous Operator Information

OGRID: 10701
Name: ASPEN OIL INC
Address: P.O. Box 2674
City, State, Zip: Hobbs, NM 88241

New Operator Information

Effective Date: Effective on the date of approval by the OCD

OGRID: 119305
Name: RAY WESTALL OPERATING, INC.
Address: P.O. Box 4
City, State, Zip: Loco Hills, NM 88255

I hereby certify that the rules of the Oil Conservation Division ("OCD") have been complied with and that the information on this form and the certified list of wells is true to the best of my knowledge and belief.

Additionally, by signing below, RAY WESTALL OPERATING, INC. certifies that it has read and understands the following synopsis of applicable rules.

PREVIOUS OPERATOR certifies that all below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells being transferred are either (1) in compliance with 19.15.17 NMAC, (2) have been closed pursuant to 19.15.17.13 NMAC or (3) have been retrofitted to comply with Paragraphs 1 through 4 of 19.15.17.11(i) NMAC.

RAY WESTALL OPERATING, INC. understands that the OCD's approval of this operator change:

1. constitutes approval of the transfer of the permit for any permitted pit, below-grade tank or closed-loop system associated with the selected wells; and
2. constitutes approval of the transfer of any below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells, regardless of whether the transferor has disclosed the existence of those below-grade tanks to the transferee or to the OCD, and regardless of whether the below-grade tanks are in compliance with 19.15.17 NMAC.

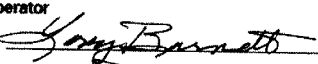
<https://wwwapp.emnrd.state.nm.us/OCD/OCDPermitting/Report/C104A/C104AResult.asp...> 1/4/2019

C-145

Page 3 of 3

I hereby certify I understand the above. The statements I have made are true and correct and a condition precedent to the Oil Conservation Division accepting this Change of Operator.

Previous Operator

Signature: 
Printed Name: Larry Barnett
Title: President
Date: 1/4/19 Phone: 575-399-8401

New Operator

Signature: 
Printed Name: Ray Westall
Title: President
Date: 1/4/19 Phone: 575-677-2370

<https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/Report/C104A/C104AReport.asp...> 1/4/2019

OCD Permitting

Page 1 of 1

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6181 Fax: (575) 393-0720

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

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

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

Wells Selected for Transfer

Permit 261817

4 Wells Selected for Transfer

From:	ASPEN OIL INC	OGRID:	10701
To:	RAY WESTALL OPERATING, INC	OGRID:	119305

OCD District: Artesia (4 Wells selected.)

Property	Well	Lease Type	ULSTR	OCD Unit	API	Well Type	Pool ID	Pool Name	Last Prod/Inj	Single Well Bond Required for Inactive Well
22499	FEDERAL 33 COM #001	F	C-33-17S-29E	C	30-015-21259	G	77840	GRAYBURG; MORROW (GAS)	10/18	0
303327	GREEN B #011	F	J-07-17S-29E	J	30-015-23754	G	76375	EMPIRE; ATOKA (GAS)	10/18	0
25295	STATE BX COM #001	S	O-35-17S-28E	O	30-015-24059	G	76375	EMPIRE; ATOKA (GAS)	10/18	0
19243	BENSON 34 FEDERAL #001	F	J-34-18S-30E	J	30-015-25771	G	72060	BENSON, STRAWN (GAS)	10/18	0

Total of Single Well Bonds Required for Inactive Wells	0
---	----------

Fed. 33 - NM14845 (Fed)

Green B - NMNM101967 (Fed)

State BX - NM B-4456 (State)

Benson 34 - NMNM56541 (Fed)

<https://www.vapps.emnrd.state.nm.us/OCD/OCDPermitting/Report/C104A/C104ASelectdW...> 1/4/2019

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

Wells Selected for Transfer

Permit 261817

4 Wells Selected for Transfer

From:	ASPEN OIL INC	OGRID:	10701
To:	RAY WESTALL OPERATING, INC.	OGRID:	119305

OCD District: Artesia (4 Wells selected.)

Property	Well	Lease Type	ULSTR	OCD Unit	API	Well Type	Pool ID	Pool Name
325317	BENSON 34 FEDERAL #001	F	J-34-18S-30E	J	30-015-25771	G	72060	BENSON; STRAWN (GAS)
325318	FEDERAL 33 COM #001	F	C-33-17S-29E	C	30-015-21259	G	77840	GRAYBURG; MORROW (GAS)
325316	GREEN B #011	F	J-07-17S-29E	J	30-015-23754	G	76375	EMPIRE; ATOKA (GAS)
325319	STATE BX COM #001	S	O-35-17S-28E	O	30-015-24059	G	76375	EMPIRE; ATOKA (GAS)

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 160206

HPD Log No(s).

Registration

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Performing Agency: APAC

Activity ID: Federal 33 COM #1 Accidental Release Area

Performing Agency Report No: APAC 25-11-01

Other Agencies: NM State Land Office

Report Recipient (Your Client): Ray Westall Operating Represented by Vertex Resource Services, Inc

Activity Types:

☐ Research Design ☒ Archaeological Survey/Inventory

☐ Architectural Survey/Inventory ☐ Test Excavation ☐ Monitoring

☐ Collections/Non-Field Study ☐ Compliance Decision

☐ Literature Review Overview ☐ Excavation ☐ Ethnographic Study

☐ Resource/Property Visit ☐ Historic Structures Report

☐ Other:

Total Survey Acreage: 6.21

Total Tribal Acreage: 0.00

Total Resources Visited: 2

Associate/Register Resources

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
LA	142517	APAC 25-11-01 KS1	☒	Site	☐	Revisit
LA	180385	APAC 25-11-01 KS2	☒	Site	☐	Revisit

Report Details

Type of Report Positive

Lead Agency

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Lead Agency Report No.

Report Number:

Report run on: Feb 20, 2026 09:40 AM

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Number: 160532

HPD Log Number(s):

Registration

Lead Agency: NM State Land Office

Performing Agency: APAC**Activity ID:** Monitoring Project for Fed 33 Com 1 Accidental Release for EM Survey**Performing Agency Report Number:** APAC 25-11-01M

Other Agencies:

Report Recipient (Your Client): Ray Westall Operating represented by Vertex Resource Services, Inc

Activity Types:

☐ Research Design ☐ Archaeological Survey/Inventory
☐ Architectural Survey/Inventory ☐ Test Excavation ☒ Monitoring
☐ Collections/Non-Field Study ☐ Compliance Decision
☐ Literature Review/Overview ☐ Excavation ☐ Ethnographic Study
☐ Resource/Property Visit ☐ Historic Structures Report
☐ Other:

Total Survey Acreage: 0.00**Total Tribal Acreage:** 0.00**Total Resources Visited:** 0**Associate/Register Resources**

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
--------	--------	-------------------------	--------	---------------	-------------------	---------

Report Details**Type of Report** Negative**Lead Agency:** NM State Land Office**Lead Agency Report Number:****Title of Report:** A Monitoring Report of LA 142517 for Electromagnetic Survey Activities of the Federal 33 COM #1 Accidental Release Area in Eddy County, New Mexico for Ray Westall Operating Represented by Vertex Resource Services, Inc.**Authors:** Pangburn, Jeffrey and Kyle Shannon**Publication Type:** Report, Monograph, or Book**Description of Undertaking:** On the 10th of February 2026, Jeffrey Pangburn and Daniel Black conducted



State of New Mexico
Commissioner of Public Lands

Stephanie Garcia Richard
COMMISSIONER

310 OLD SANTA FE TRAIL
 P.O. Box 1148
 SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE

Phone (505) 827-5760
 Fax (505) 827-5766
www.nmstatelands.org

February 4, 2026

Vertex Resource Services Inc.
 3101 Boyd Drive
 Carlsbad, NM 88220

Attn: Andrew Parker

Re: Notice of Intent to Conduct Site Visit - Federal 33 Com #1

Dear Applicant:

We are in receipt of your written request for permission to enter state trust lands to conduct a site visit.

It has been determined that the area you have applied for is state trust land; therefore, you are hereby granted permission to enter said lands only for the purpose of conducting a site visit. Entry onto State Trust Lands for any other purposes including but not limited to Archeological or Biological assessments (surveys) require separate permissions. Please be advised that the applicant must identify, contact, and notify the grazing lessee of the permission granted by NM State Lands Office prior to entering the subject portion of state trust land. The granting of this authorization does not allow access across private lands. The dates granted for site visit is **Tuesday, February 10, 2026 only.**

Note that no motorized vehicle traffic allowed. All access on State Trust Lands must be on foot with hand-held equipment.

PERMISSION TO CONDUCT A SITE VISIT HAS BEEN GRANTED ONLY FOR THE FOLLOWING STATE TRUST LAND AREA(S):

***note that if any below listed lands are not STL, permission to access is not granted.*

Township	Range	Sections	
17S	29E	33	NENW

If you have any questions, or if we may be of further assistance, please do not hesitate to contact me at 505-827-5789 or avelazquez@nmslo.gov.

Sincerely,

Amy Velazquez
 Right of Way Leasing Manager
 Commercial Resources Division



Rights of Way Bureau Leasing Manager
Commercial Resources Division
New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

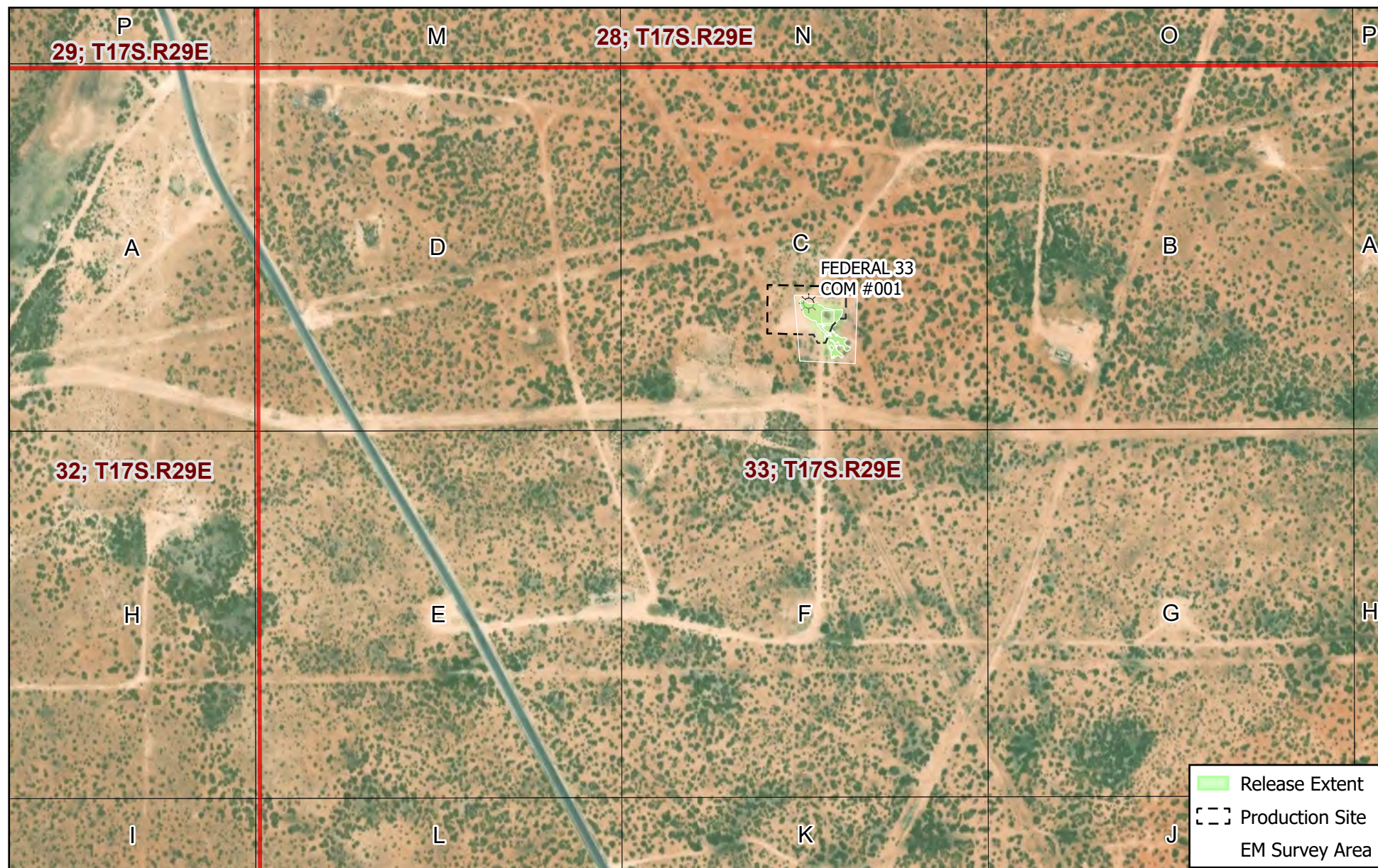
RE: Request for temporary permission to perform an EM Survey on New Mexico State Trust Lands

Applicant Name	Andrew Parker – Consultant Vertex Resource Services, Inc.
Applicant Address	3101 Boyd Drive Carlsbad, NM 88220
Applicant Phone Number	Mobil: 575-689-7007
Applicant Email	aparker@vertexeresource.com
Date of Application	February 5, 2026
Description of proposed project	Perform an Electromagnetic Survey to measure soil salinity. Survey will take one day to complete. No ground surface will occur. Arch. monitor will be on-site.
Date of proposed survey	February 10, 2026
General location	1.5 miles southeast of US Highway 82 and County Rd 210
Legal description	NE/4 of the NW/4 (UL C) of Section 33; T17S.R29E.
Right-of-Way Number	Unknown
Operator	Ray Westall Operating
Project Name/Coordinates	Federal 33 Com #1. 32.7957760, -104.0818852

Figure 1, attached, shows the proposed EM Survey area relative the release extent. Attached map is using New Mexico State Plane East FIPS 3001 Feet projection with the NAD83 Datum.

The undersigned applicant indemnifies and holds harmless the commissioner, his agents and employees, and any authorized lessees of the state of New Mexico, against any and all liability for loss of life, personal injury and property damage due to survey or related activities of the applicant, or by employees, contractors or subcontractors of the applicant.

Andrew Parker
Senior Project Manager
Vertex Resource Services Inc



0 200 400 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.794555°N, 104.083213°W

Date: Feb 05/26



Temporary ROE Request
Federal 33 Com #001

FIGURE:

1

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Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

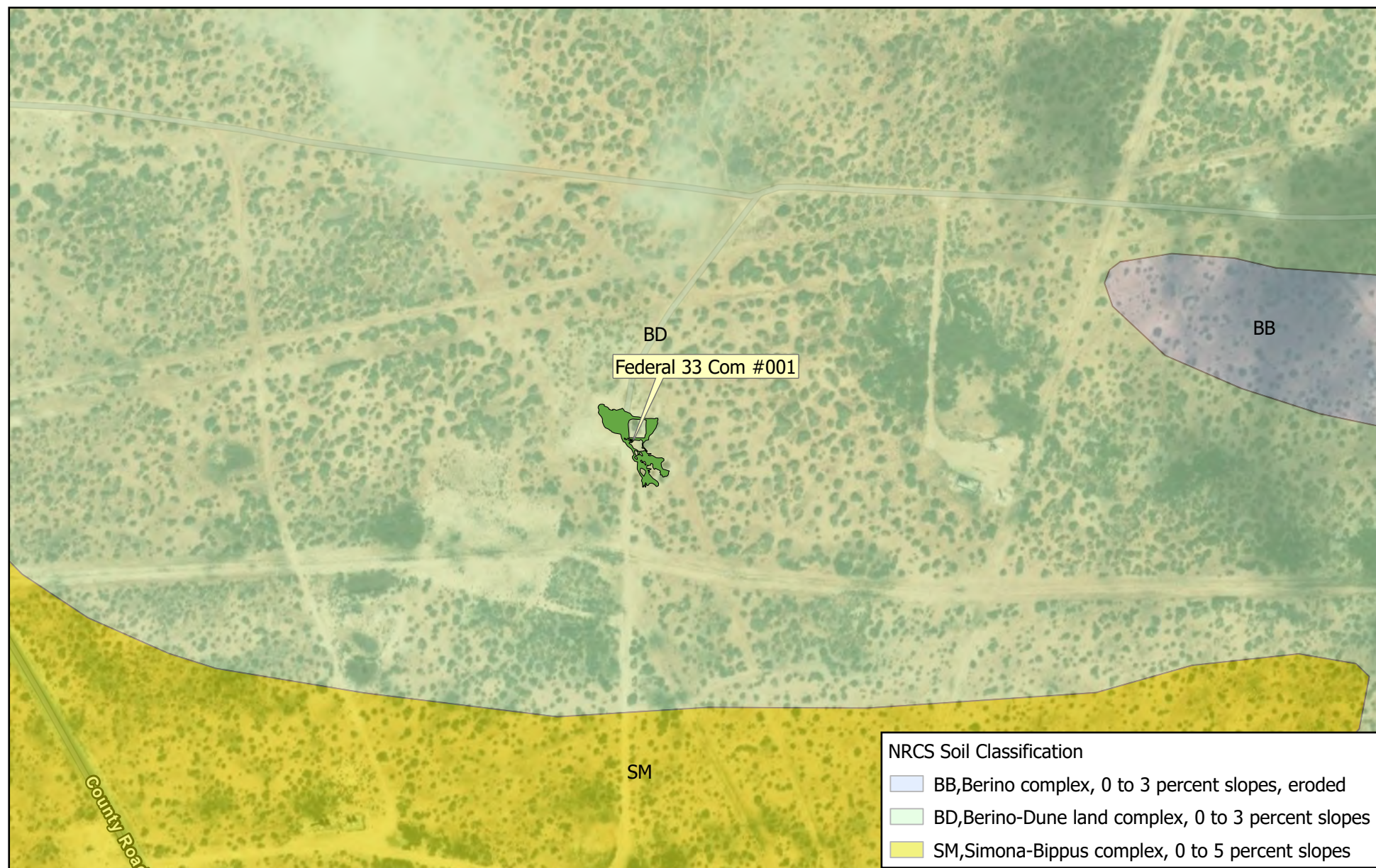
VERSATILITY. EXPERTISE.

Appendix B

Site Criteria Maps



Vertex Resource Services, Inc.
Colorado • New Mexico • Texas



Map Center:
Lat/Long: 32.795693°N, 104.081192°W

Date: Apr 12/26



0 200 400 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Soil Classification

Federal 33 Com #001

| PLATE:

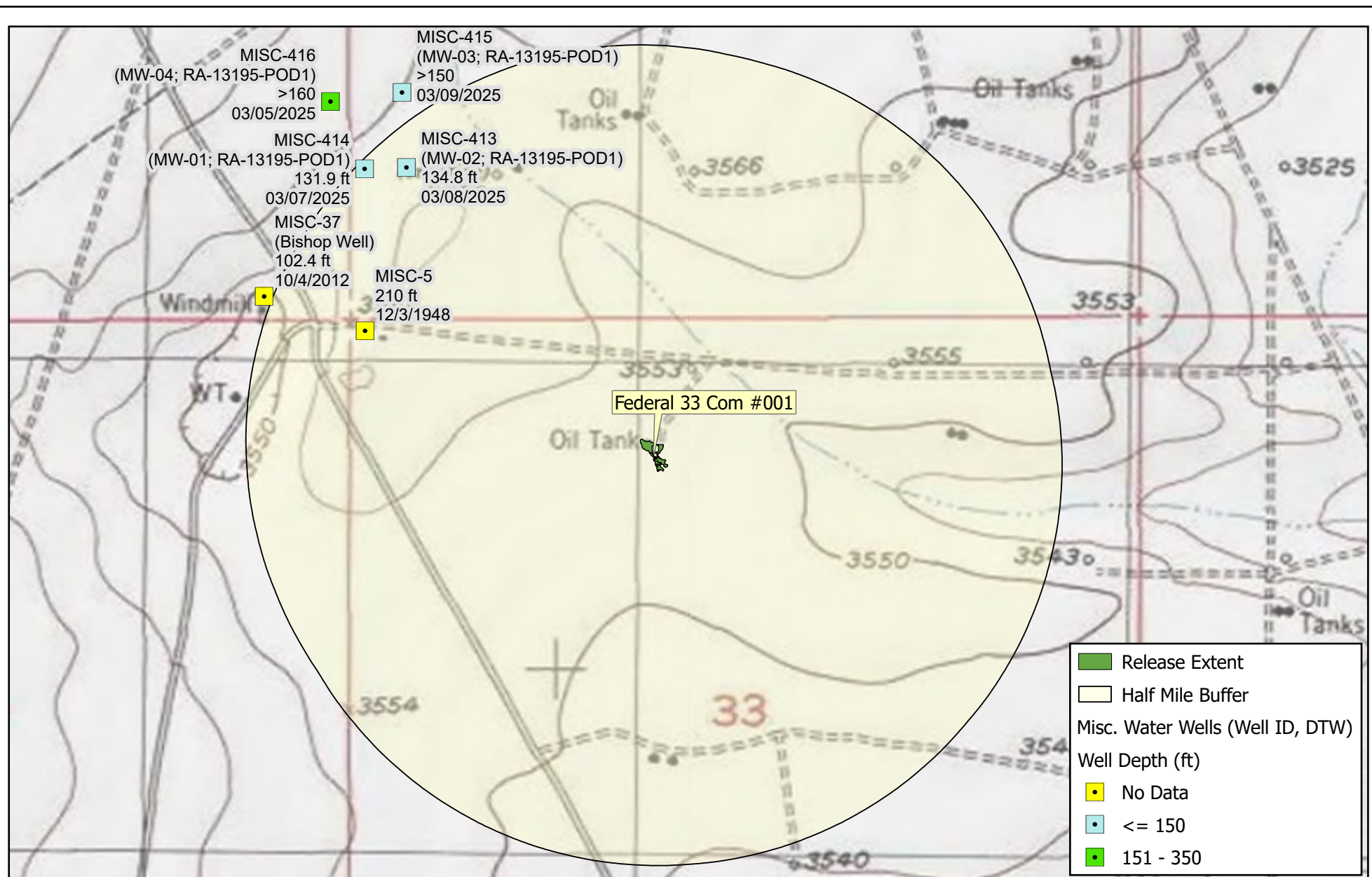
1

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Operating Inc**

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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

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Map Center:
Lat/Long: 32.795688°N, 104.080964°W
Date: Apr 12/26
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



Depth To Water
Federal 33 Com #001

PLATE:

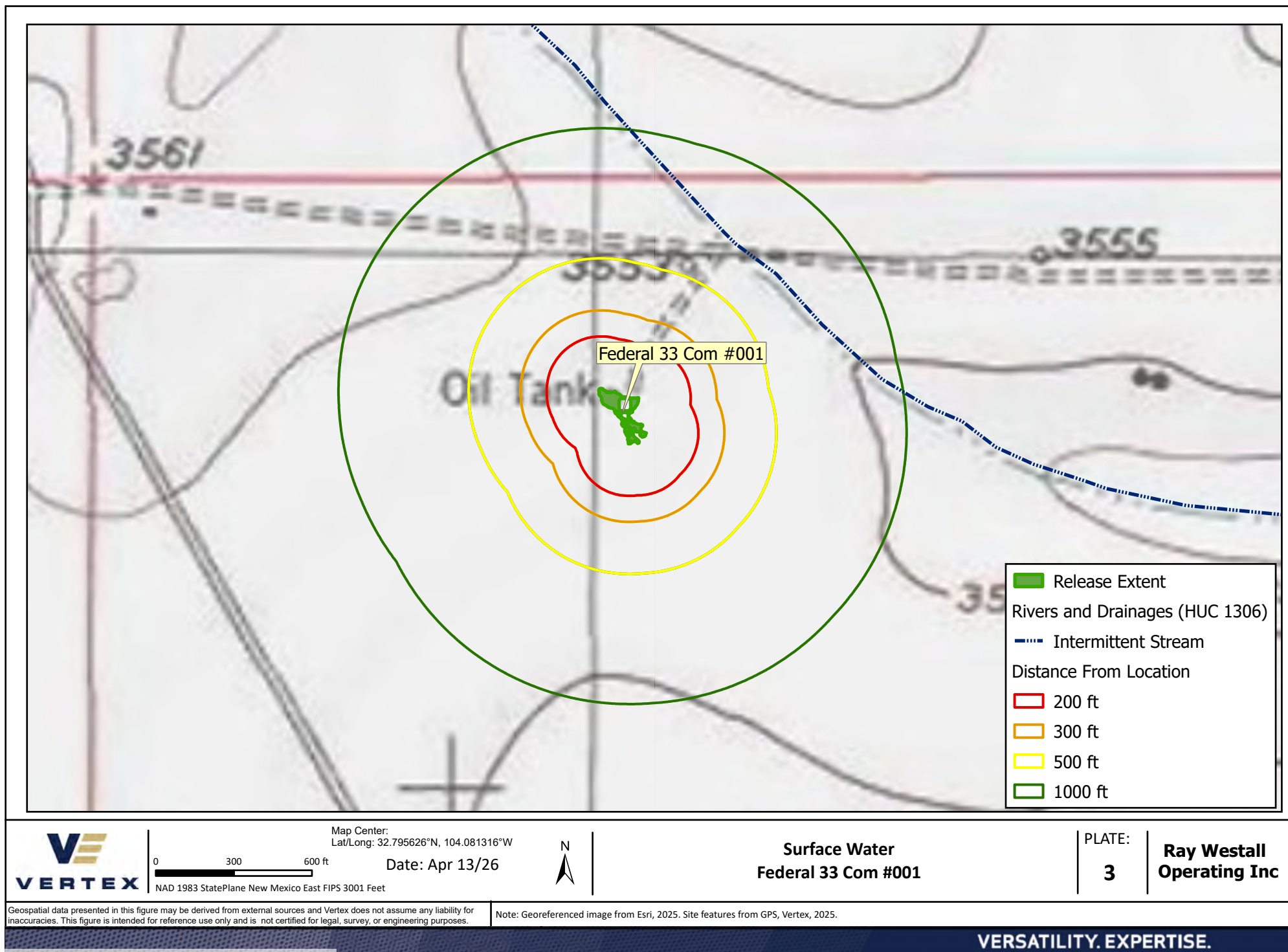
2

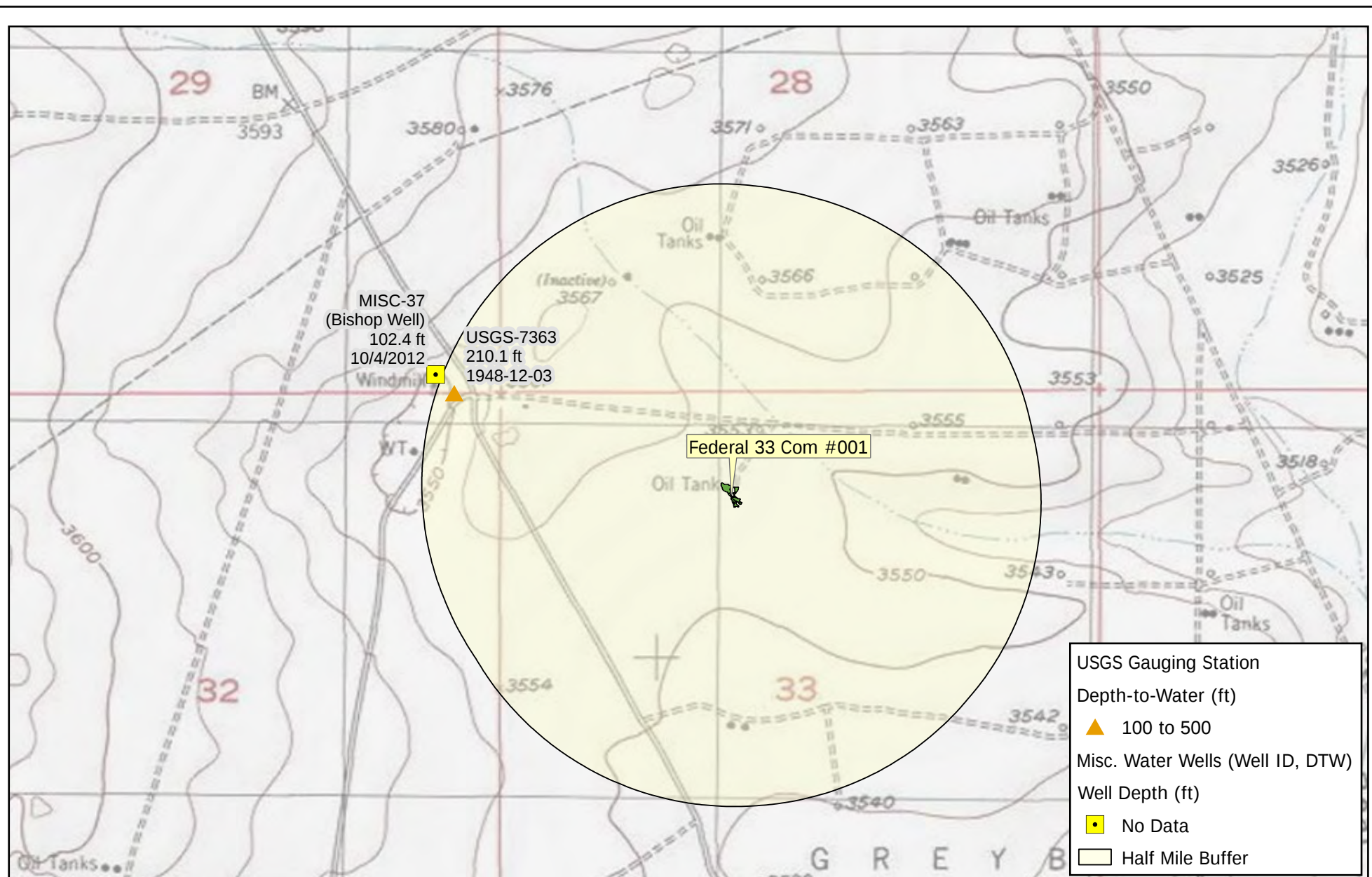
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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

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Map Center:
Lat/Long: 32.796675°N, 104.082943°W
Date: Apr 06/26
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



Wellhead Protection
Federal 33 Com #001

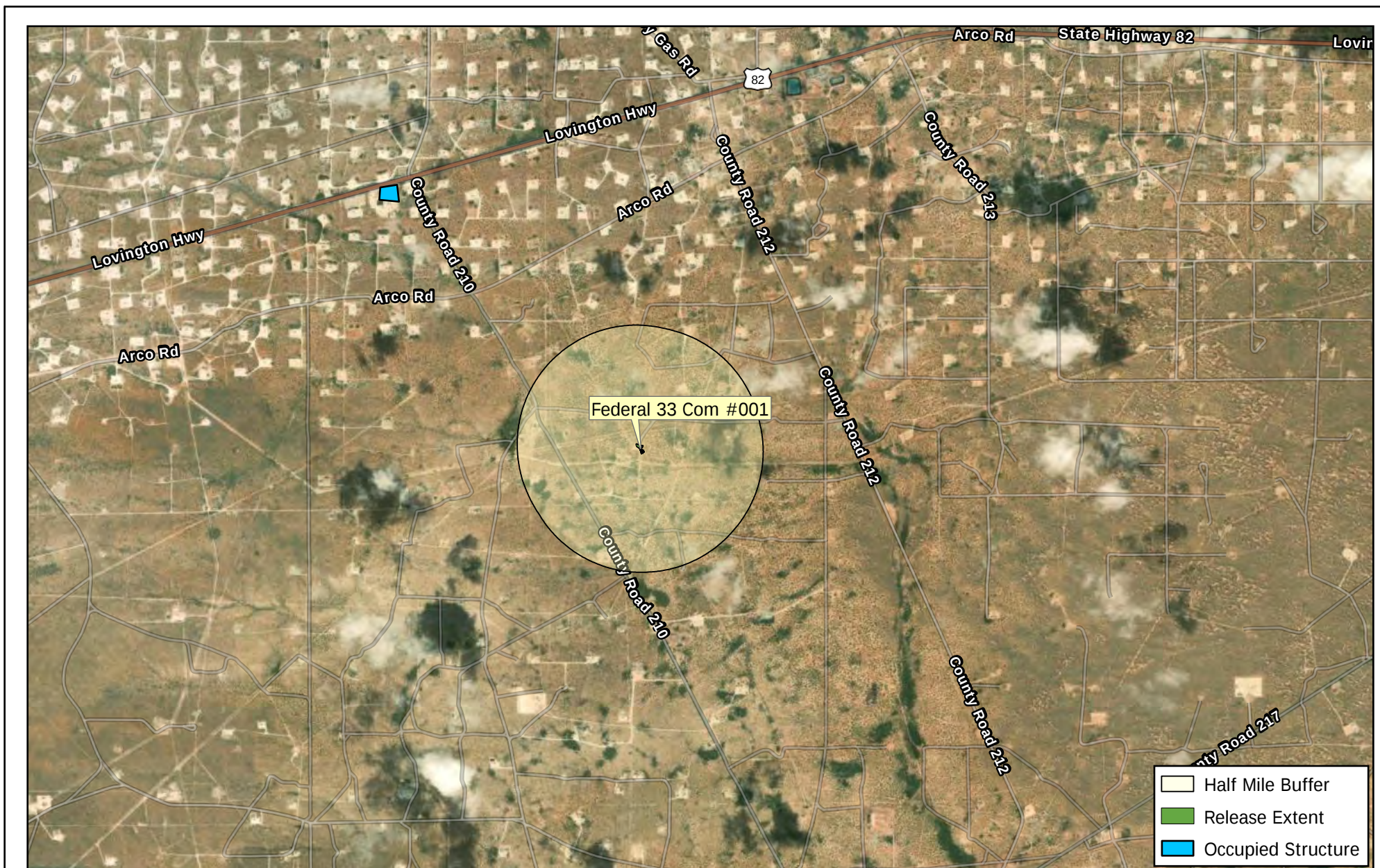
FIGURE:
4

Ray Westall
Operating Inc

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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.



Map Center:
Lat/Long: 32.795664°N, 104.077355°W
Date: Apr 06/26
0 2,000 4,000 f
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



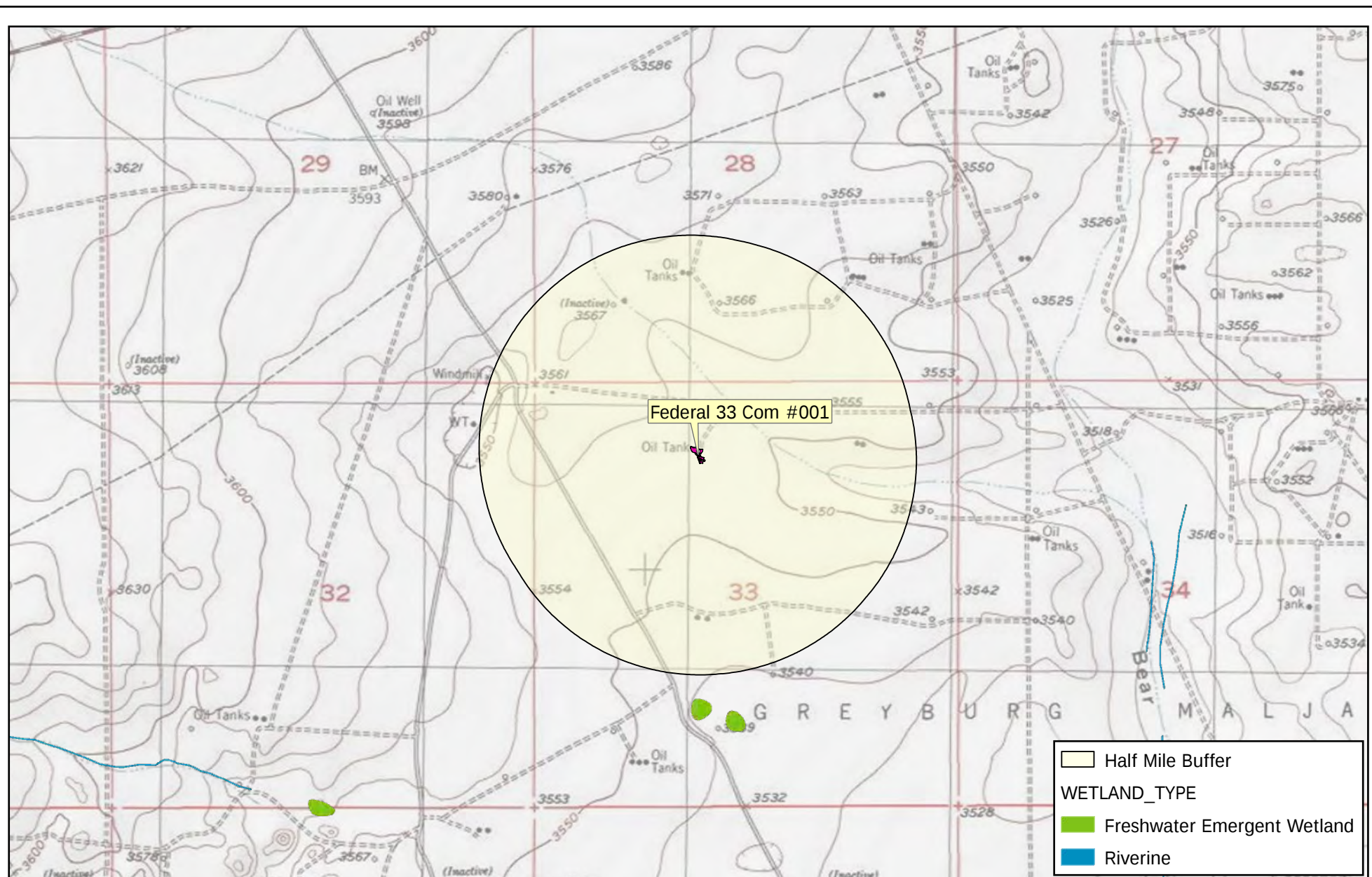
Occupied Structures
Federal 33 Com #001

PLATE:
5
Ray Westall
Operating Inc

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

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Map Center:
Lat/Long: 32.795719°N, 104.08209°W
Date: Apr 06/26
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



Wetlands (National Wetland Inventory)
Federal 33 Com #001

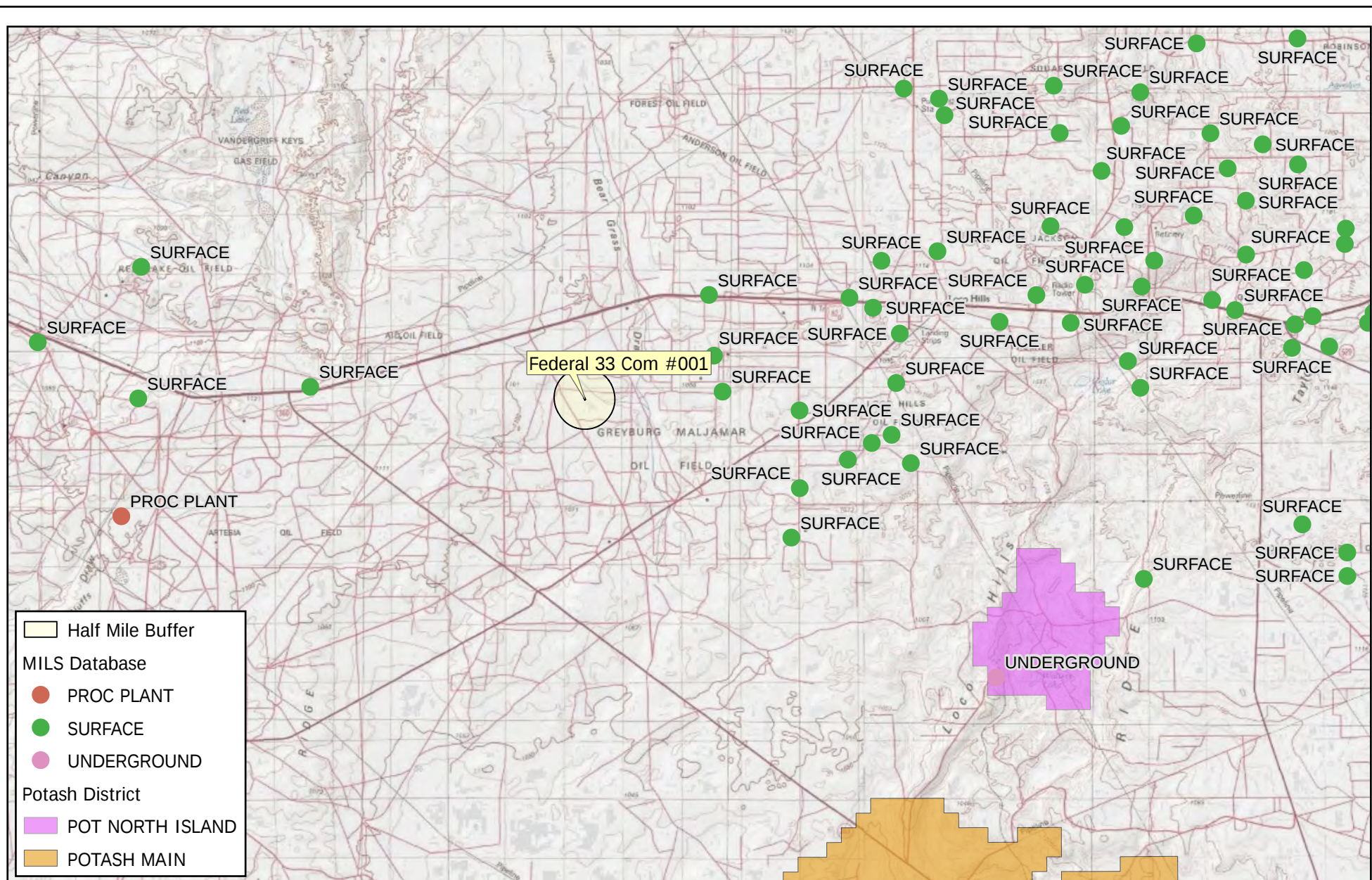
PLATE:
6

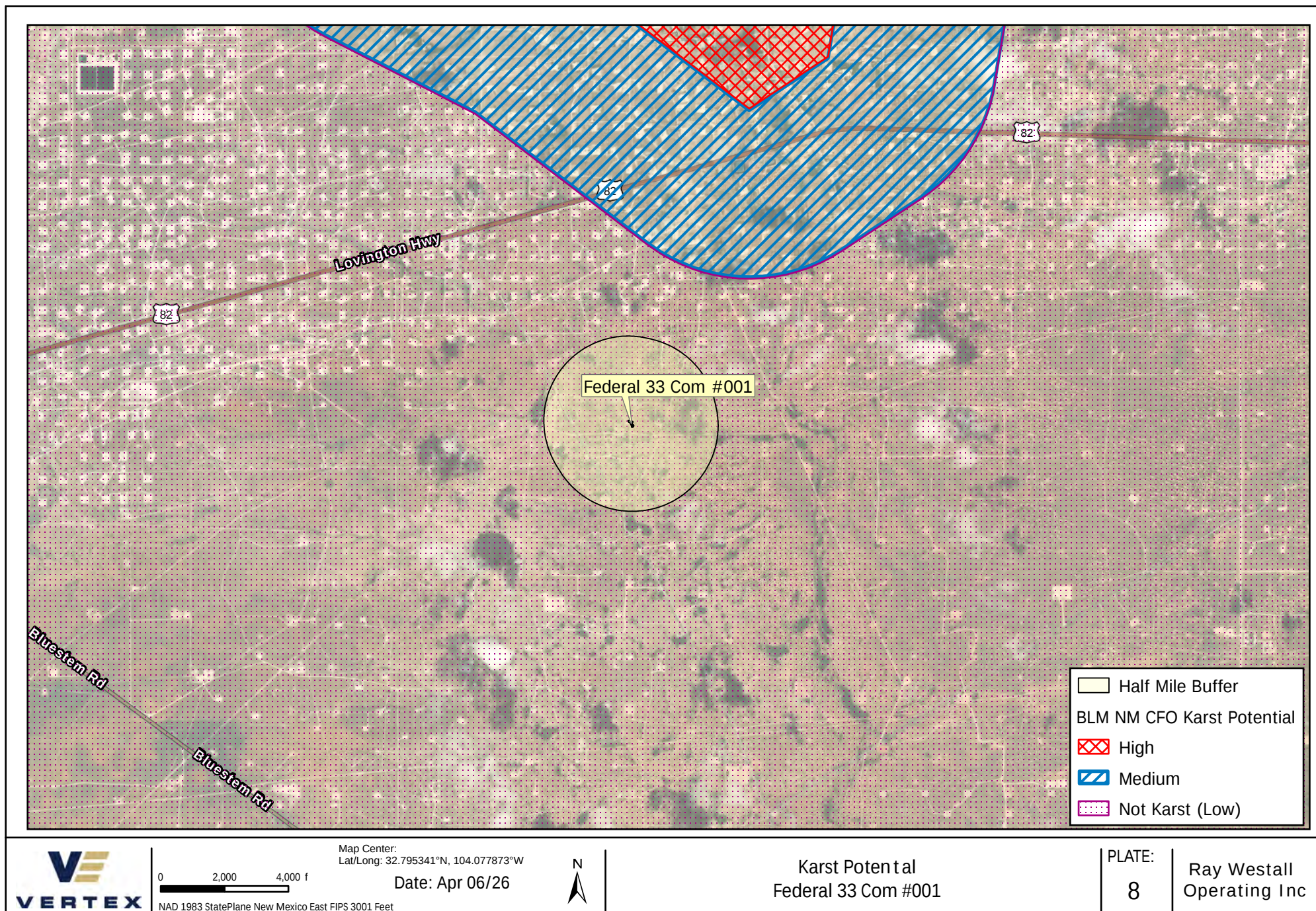
Ray Westall
Operating Inc

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.

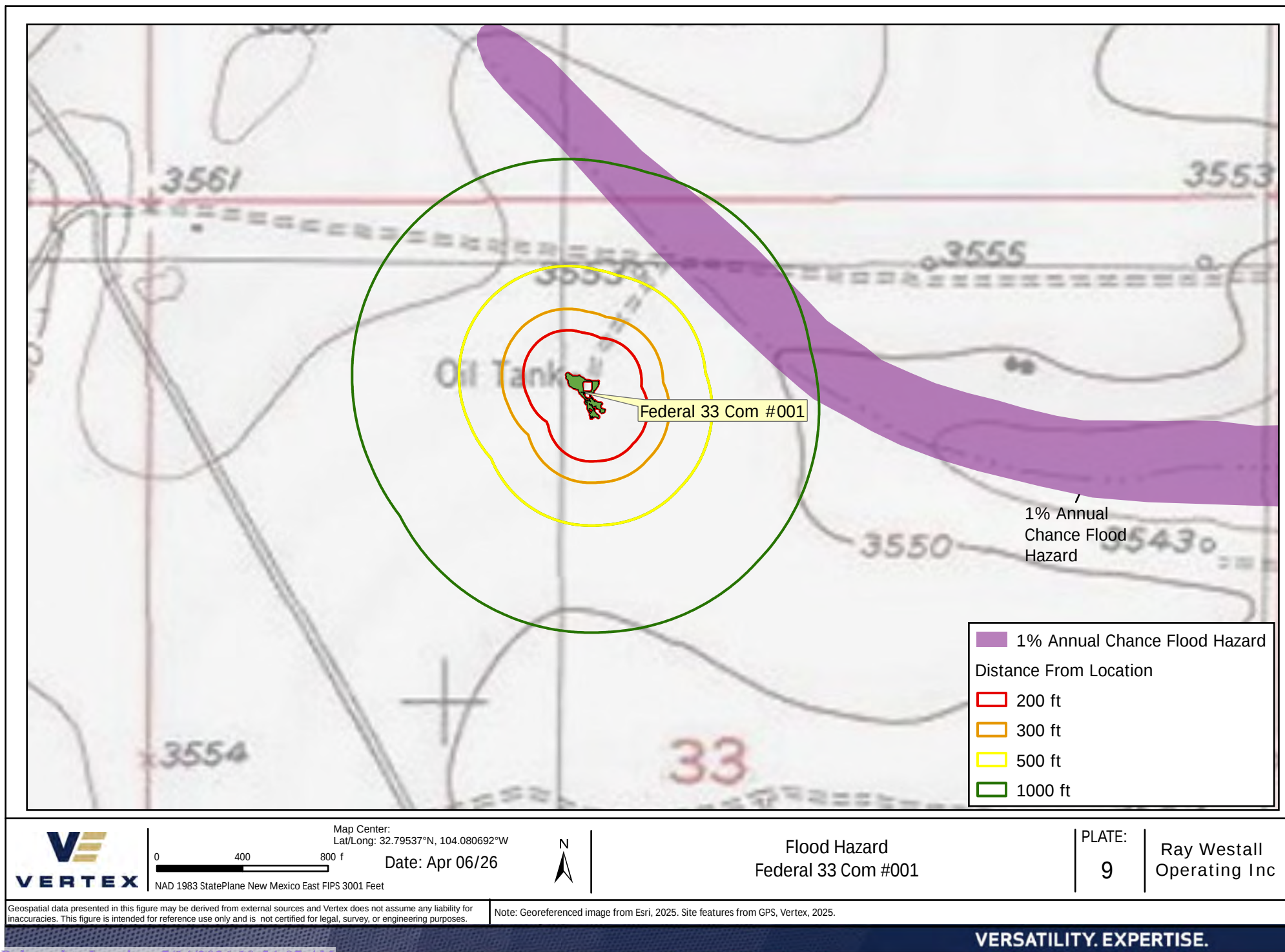




Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.



Appendix C

Well/Borehole Logs



Vertex Resource Services, Inc.
Colorado • New Mexico • Texas

WELL LOG NO. W-1

Page 1 of 1

PROJECT: State I 16

CLIENT: Spur Energy Partners LLC

SITE: Loco Hills, New Mexico

GRAPHIC LOG	LOCATION 32.80092788, -104.08800336		INSTALLATION DETAILS		DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (%)	OVA/PID (ppm)
	DEPTH	MATERIAL DESCRIPTION	Well Completion: 3-ft Stickup						
	2.5	SANDY CLAY , red/orange, no odor, dry	Concrete 0'-5'		5			100	0.1
	5.0	SANDY CLAY , white/orange, no odor, dry					100	0.0	
	10.0	SANDY CLAY , brown/orange, no odor, dry					100	0.0	
	15.0	SANDY CLAY W/CALICHE , orange/white, no odor, dry					100	0.0	
	20.0	SANDY CLAY , light brown/red, no odor, moist					100	0.0	
		SANDY CLAY , dark brown/red, no odor, moist				100	0.1		
						100	0.0		
						100	0.0		
						100	0.1		
						100	0.0		
						100	0.0		
						100	0.1		
						100	0.0		
						100	0.0		
						100	0.2		
	55.0	SANDY CLAY , light brown/red, no odor, moist	Bentonite 5'-123'		60			100	0.1
							100	0.2	
							100	0.2	
							100	0.2	
							100	0.1	
					100	0.3			
					100	0.3			
					100	0.4			
					100	0.4			
100.0	SANDY CLAY , dark brown/red, no odor, moist	Sand 123'-125'		105			100	0.3	
						100	1.0		
						100	1.1		
						100	1.2		
						100	1.1		
					100	0.0			
					100	1.0			
					100	0.9			
					100	0.7			
					100	0.5			
150.0	SANDY CLAY W/CALICHE , brown/red, no odor, dry	Screen 125'-150'		145			100	0.5	
				150			100	0.7	
Boring Terminated at 150 Feet									
The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.									
Advancement Method: Air Rotary			Notes:						
Abandonment Method: Completed as Well									
WATER LEVEL OBSERVATIONS			 4526 W Pierce St Carlsbad, NM		Well Started: 03-06-2025		Well Completed: 03-07-2025		
131.85-ft Below TOC					Drill Rig: Air Rotary		Driller:		
					Project No.: KH237037		Sampler: Aaron Adams		

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG GINT.GPJ TERRACON_DATATEMPLATE.GDT 3/14/25

WELL LOG NO. W-2

Page 1 of 1

PROJECT: State I 16

CLIENT: Spur Energy Partners LLC

SITE: Loco Hills, New Mexico

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG GINT.GPJ TERRACON DATATEMPLATE.GDT 3/14/25

GRAPHIC LOG	LOCATION 32.80095037, -104.08708897		INSTALLATION DETAILS		DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (%)	OV/APID (ppm)
	DEPTH	MATERIAL DESCRIPTION	Well Completion: 3-ft Stickup						
	2.5	<u>SAND</u> , orangish brown, no odor, dry	Concrete 0'-5'					100	0.3
	5.0	<u>SAND W/CALICHE</u> , orangish brown w/white, no odor, dry						100	0.7
	<u>SAND</u> , tannish brown, no odor, dry	100						0.5	
12.5		100						0.3	
		<u>SHALE</u> , tannish brown, no odor, dry						100	0.3
	20.0							100	0.2
		<u>SANDY CLAY</u> , dark brown, no odor, dry						100	0.1
	25.0							100	0.4
		<u>CLAY</u> , red/brown, no odor, dry						100	0.1
	30.0							100	0.4
		<u>SANDY CLAY</u> , red/brown, no odor, dry	100	0.3					
	40.0		100	0.4					
		<u>CLAYEY SAND W/CALICHE</u> , orangish brown w/white & gray, no odor, dry	100	0.3					
	45.0		100	0.4					
		<u>CALICHE</u> , whitish gray, no odor, dry	100	0.6					
			100	0.7					
			100						
			100	1.2					
			100	0.3					
			100	0.6					
			100	1.9					
			100	1.2					
			100	1.0					
			<u>CLAYEY SAND W/CALICHE</u> , orange/white, no odor, dry	100	0.9				
100.0			100	0.1					
		<u>CALICHE</u> , orange/white, no odor, dry	100	0.1					
			100	0.1					
			100	0.2					
			100	0.2					
			100	0.8					
			100	0.1					
			100	0.1					
			100	0.2					
			100						
			100						
	145.0	<u>CLAYEY SAND W/ROCK</u> , orange/white, no odor, dry	100	0.2					
	150.0	<u>Boring Terminated at 150 Feet</u>			100	0.1			

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Air Rotary	 4526 W Pierce St Carlsbad, NM	Notes:	
Abandonment Method: Completed as Well			
WATER LEVEL OBSERVATIONS  134.81-ft Below TOC		Well Started: 03-07-2025	Well Completed: 03-08-2025
		Drill Rig: Air Rotary	Driller:
		Project No.: KH237037	Sampler: Aaron Adams

WELL LOG NO. W-3

Page 1 of 1

PROJECT: State I 16

CLIENT: Spur Energy Partners LLC

SITE: Loco Hills, New Mexico

GRAPHIC LOG	LOCATION 32.80233721, -104.08718522	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (%)	OV/APID (ppm)
	DEPTH MATERIAL DESCRIPTION	Well Completion: 3-ft Stickup					
	0.0 <u>CLAYEY SAND</u> , red/orange, no odor, dry	Concrete 0'-5'				100	0.0
	0.5 <u>CLAYEY SAND</u> , dark red/orange, no odor, moist		5			100	0.1
	2.5 <u>CLAYEY SAND</u> , dark red/orange, no odor, moist					100	0.1
	7.5 <u>CLAYEY SAND W/CALICHE</u> , dark red/orange, no odor, moist		10			100	0.0
	10.0 <u>CALICHE</u> , orange/white, no odor, dry					100	0.2
	12.5 <u>CLAYEY SAND W/GRANITE</u> , orange/white, no odor, dry		15			100	0.1
	15.0 <u>CLAYEY SAND W/CALICHE MIX</u> , red/orange, no odor, moist					100	0.2
	20.0 <u>CLAYEY SAND W/COBBLESTONE</u> , red/orange, no odor, moist		20			100	0.2
	25.0 <u>CLAYEY SAND W/SMALL ROCK</u> , dark red/orange, no odor, dry		25			100	0.2
	<u>CLAYEY SAND</u> , dark red/orange, no odor, dry		30			100	0.2
			35			100	0.1
			40			100	0.1
			45			100	0.0
	50.0 <u>CLAYEY SAND W/CALICHE MIX</u> , dark red/orange, no odor, dry		50			100	0.1
			55			100	0.0
	60.0 <u>CLAYEY SAND W/SMALL GRAVEL</u> , red/orange, no odor, dry	Bentonite 5'-123'	60			100	0.1
			65			100	0.1
			70			100	0.2
			75			100	0.0
			80			100	0.0
	85.0 <u>CLAYEY SAND W/SMALL GRAVEL</u> , pale red/pink, no odor, dry		85			100	0.1
			90			100	0.1
	90.0 <u>CLAYEY SAND W/SMALL GRAVEL</u> , pale pink/white, no odor, dry		95			100	0.2
			100				
	100.0 <u>FINE DUST</u>		105				
			110				
			115				
			120				
		Sand 123'-125'	125				
			130				
		Screen 125'-150'	135				
			140				
			145				
			150				
	Boring Terminated at 150 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Air Rotary		Notes:	
Abandonment Method: Completed as Well			
WATER LEVEL OBSERVATIONS	 4526 W Pierce St Carlsbad, NM	Well Started: 03-08-2025	Well Completed: 03-09-2025
N/A		Drill Rig: Air Rotary	Driller:
		Project No.: KH237037	Sampler: Aaron Adams

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG GINT.GPJ TERRACON.DATATEMPLATE.GDT 3/14/25

WELL LOG NO. W-4

Page 1 of 1

PROJECT: State I 16

CLIENT: Spur Energy Partners LLC

SITE: Loco Hills, New Mexico

GRAPHIC LOG	LOCATION 32.80216741, -104.0887407		INSTALLATION DETAILS		DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (%)	OVA/PID (ppm)
	DEPTH	MATERIAL DESCRIPTION	Well Completion: 3-ft Stickup						
	0.5	<u>CLAYEY SAND</u> , red/orange, no odor, dry	Concrete 0'-5'		5			100	0.4
	2.5	<u>CLAYEY SAND</u> , brown/red, no odor, moist						100	0.7
	7.5	<u>CLAYEY SAND W/CALICHE MIX</u> , brown/red, no odor, moist			10			100	0.2
	12.5	<u>CLAYEY SAND</u> , pink/red, no odor, moist			15			100	0.3
	20.0	<u>CLAYEY SAND</u> , red/brown, no odor, moist			20			100	0.2
	25.0	<u>CLAYEY SAND</u> , light red/brown, no odor, dry			25			100	0.2
		<u>CLAYEY SAND</u> , brown/red, no odor, dry			30			100	0.1
	35.0				35			100	0.1
	40.0	<u>CLAYEY SAND</u> , dark pink red, no odor, dry			40			100	0.3
		<u>CLAYEY SAND</u> , dark red/brown, no odor, moist			45			100	0.1
					50			100	0.2
					55			100	0.2
					60			100	0.1
	65.0	<u>CLAYEY SAND W/SMALL GRAVEL</u> , light orange/brown, no odor, moist	Bentonite 5'-133'		65			100	0.1
					70			100	0.2
					75			100	0.2
					80			100	0.2
	85.0	<u>CLAYEY SAND W/SMALL GRAVEL</u> , dark orange/brown, no odor, moist			85			100	0.2
					90			100	0.3
					95			100	0.0
					100			100	0.1
110.0	<u>CLAYEY SAND</u> , white/orange, no odor, dry	110					100	0.1	
		115					100	0.1	
120.0	<u>CLAYEY SAND W/CALICHE</u> , white/orange, no odor, dry	120					100	0.0	
		125					100	0.1	
		130					100	0.0	
		Sand 133'-135'		135			100	0.0	
				140			100	0.0	
				145			100	0.0	
150.0	<u>CLAYEY SAND</u> , white/gray, no odor, moist	Screen 135'-160'		150			100	0.1	
				155			100	0.0	
160.0				160					
	Boring Terminated at 160 Feet								

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Air Rotary		Notes:	
Abandonment Method: Completed as Well			
WATER LEVEL OBSERVATIONS	 4526 W Pierce St Carlsbad, NM	Well Started: 03-05-2025	Well Completed: 03-05-2025
N/A		Drill Rig: Air Rotary	Driller:
		Project No.: KH237037	Sampler: Aaron Adams

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG GINT.GPJ TERRACON.DATATEMPLATE.GDT 3/14/25

Appendix D

Biological Review



Vertex Resource Services, Inc.
Colorado • New Mexico • Texas

Federal 33 Com #001
Ray Westall Operating

Appendix D
Biological Review
SLO-ECO



Printable Reports		
Agency	Report	Result
US Fish & Wildlife	Information for Planning and Consultation (IPaC)	-----
	(Potentially) Endangered Species	Northern Aplomado Falcon Piping Plover Texas Hornshell Monarch Butterfly
	Bald & Golden Eagles	0
	Migratory Birds	0
	Facilities	0
	Wetlands	None
Vertex "Habitats" GIS Map		
Agency	Layer	Result
BLM		
	Special Status Plant and Wildlife Habitat	-----
	Potential Habitat (Planning Area Only)	0.8 mi East Scheer's beehive cactus
	Dunes Sage Brush Lizard	4.2 mi East
	Lesser Prairie Chicken	1.9 mi East Isolated Population
	Lesser Prairie Chicken Timing Restriction	4.8 mi SE
	Natl Designated Areas of Critical Environmental Concern	40 mi NE
NM Game and Fish		
	NM Crucial Habitat Assessment Tool (NM CHAT)	-----
	Crucial Habitat	3
	Species of Concern	3
	Large Natural Areas	0
	Natural Vegetation	0/6
	Terrestrial SERI	3
	Aquatic SERI	6
	Fresh Water Integrity	5
	Weland and Riparian Areas	0/6
	NM State Wildlife Action Plan (SWAP) Macrogroups	Chihuahuan Desert Scrub
	NM Important Plant Areas	7.9 mi NW
	Riparian Corridors	14 mi West
	Upper Rio Grande	None
	Middle Rio Grande	None
	Canadian Upper Pecos	None
	Gila Region San Juan	None
	Lower Pecos Tularosa basin	None
	NM Riparian Corridor	None
US Fish & Wildlife		
	Critical Habitat for Threatened and Endangered Species	17 mi WNW
NM Natural Heritage		
	Federal Threatened and Endangered (Fed T&E)	7.9 mi West
	State Threatened and Endangered (State T&E)	7.4 mi NW
NM State Forestry		
	Important Plant Area (IPA)	7.9 mi NW

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Eddy County, New Mexico



Local office

New Mexico Ecological Services Field Office

📞 (505) 346-2525

📠 (505) 346-2542

2105 Osuna Road Ne
Albuquerque, NM 87113-1001

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1923	EXPN
Piping Plover <i>Charadrius melodus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6039	Threatened

Clams

NAME	STATUS
Texas Hornshell <i>Popenaias popeii</i> Wherever found There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/919	Endangered

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus	Proposed Threatened
Wherever found	
There is proposed critical habitat for this species. Your location does not overlap the critical habitat.	
https://ecos.fws.gov/ecp/species/9743	

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act² and the Migratory Bird Treaty Act (MBTA)¹. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their nests, should follow appropriate regulations and implement required avoidance and minimization measures, as described in the various links on this page.

The [data](#) in this location indicates that no eagles have been observed in this area. This does not mean eagles are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the [Supplemental Information on Migratory Birds and Eagles document](#) to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine if eagles may be present (e.g. your local FWS field office, state surveys, your own surveys).

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Bald & Golden Eagles FAQs

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply).

Proper interpretation and use of your eagle report

On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Migratory birds

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior [authorization](#) by the Department of Interior U.S. Fish and Wildlife Service (FWS).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

The [data](#) in this location indicates that no migratory birds of concern have been observed in this area. This does not mean [birds of concern](#) are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the [Supplemental Information on Migratory Birds and Eagles document](#) to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine what migratory birds of concern may be present (e.g. your local FWS field office, state surveys, your own surveys).

Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Avoidance & Minimization Measures for Birds](#) describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the [Bald and Golden Eagle Protection Act](#) and those species marked as "Vulnerable". See the FAQ "What are the levels of concern for migratory birds?" for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your project intersects. These species have been identified as warranting special attention because they are BCC species in that

area, an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

Why are subspecies showing up on my list?

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Bald and Golden Eagle Protection Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ "Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

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The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

Appendix E

Daily Field Reports



Vertex Resource Services, Inc.
Colorado • New Mexico • Texas

Daily Site Visit Report. Ray Westall Operating. Federal 33 Com #1.



Site Photos

November 4, 2025 Initial Site Visit Photo Documentation. Andrew Parker & Sharon Minnix.



11/04/2025



Daily Site Visit Report. Ray Westall Operating. Federal 33 Com #1.



11/04/2025

Released to Imaging: 7/14/2026 10:54:07 AM



Daily Site Visit Report. Ray Westall Operating. Federal 33 Com #1.



11/04/2025

Released to Imaging: 7/14/2026 10:54:07 AM



Daily Site Visit Report. Ray Westall Operating. Federal 33 Com #1.





Daily Field Log

Site: Federal 33 Com #001

02/10/2026

Location: Federal 33 Com #001

By: Sharon Minnix

Weather	Clear Light Breeze	Contractor	JC Services
Staff On-site	Lakin Pullman Sharon Minnix	Contractor Crew	TJ, David, Angel, Jeff, Jason
Staff From Time	08:50	Equipment On Site	None
Tailgate meeting conducted	Yes	Incident ID Number	nAPP2100441738

Work Summary:

Put fence up. Conduct EM Survey.

Time Observations

08:50:54	Safety paperwork has been filled out at 8:50 am. Safety meeting conducted at 9:00 am.
09:10:26	Map out equipment. Take site photos. Conduct EM Survey
11:34:08	All site activities are monitored by an on site archeologist. No ground disturbance will occur.

Inspector: Sharon Minnix

Pictures/Attachments

Date: 2/10/2026
 Time: 10:10
 Notes: EM Survey being conducted
 Latitude: 32.795161111111106
 Longitude: -104.08180277777777
 Direction: NW





Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:22
Notes: Production equipment on the west side of the pad.
Latitude: 32.79496111111111
Longitude: -104.08165
Direction: NE



Date: 2/10/2026
Time: 10:22
Notes: Production equipment on the west side of the pad
Latitude: 32.794919444444446
Longitude: -104.08161944444444
Direction: E





Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:23
Notes: Pipelines that lead underground.
Latitude: 32.794894444444445
Longitude: -104.08159722222221
Direction: NE



Date: 2/10/2026
Time: 10:24
Notes: Production equipment on the west side looking towards the pad
Latitude: 32.79485
Longitude: -104.08156666666666
Direction: SW





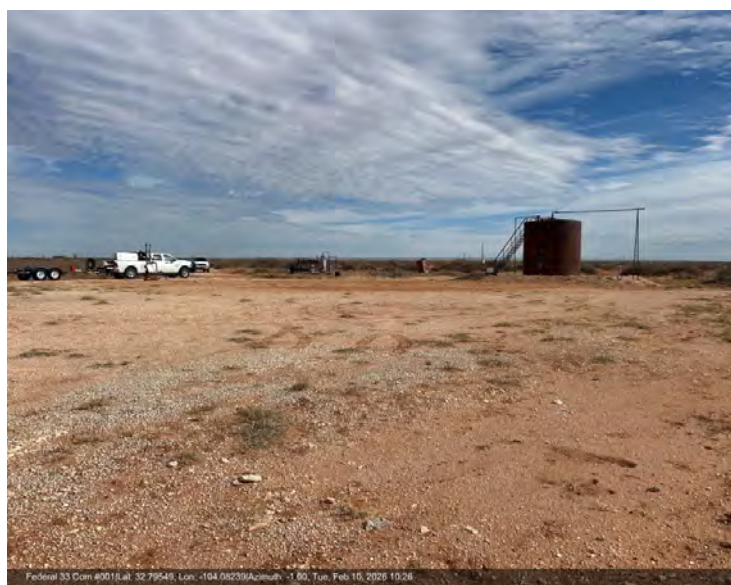
Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:25
Notes: Production equipment on the west side looking toward the pasture
Latitude: 32.79549444444444
Longitude: -104.08238888888889
Direction: S



Date: 2/10/2026
Time: 10:26
Notes: Looking towards the middle of the pad where release is located. Little to no vegetation on pad as required
Latitude: 32.79548888888889
Longitude: -104.08238888888889
Direction: SE





Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:27
Notes: Exiting the pad looking towards the pasture and lease rd
Latitude: 32.7954888888889
Longitude: -104.0823888888889
Direction: S



Date: 2/10/2026
Time: 10:28
Notes: Entering pasture where release is located
Latitude: 32.7954888888889
Longitude: -104.0823888888889
Direction: W





Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:29
Notes: End of the known release in the pasture looking towards the pad
Latitude: 32.7954888888889
Longitude: -104.0823888888889
Direction: NE



Date: 2/10/2026
Time: 10:29
Notes: EM Survey being conducted
Latitude: 32.7954888888889
Longitude: -104.0823888888889
Direction: E





Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:30
Notes: End of the known release in the pasture looking towards the pad
Latitude: 32.79548611111111
Longitude: -104.08238888888889
Direction: S



Date: 2/10/2026
Time: 10:31
Notes: End of the known release in the pasture looking towards the pad
Latitude: 32.79548611111111
Longitude: -104.08238333333333
Direction: S





Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:35
Notes: Going 20 meters outside of known release edge to encapsulate survey and provide information the east is desirable soils
Latitude: 32.795361111111106
Longitude: -104.08157222222222
Direction: W



Date: 2/10/2026
Time: 10:36
Notes: EM Survey being conducted. Area is has dune like characteristics
Latitude: 32.79532777777778
Longitude: -104.08163333333333
Direction: SW





Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:39
Notes: Confirming south edge desirable soils and encapsulating the anomaly
Latitude: 32.79532777777778
Longitude: -104.08163333333333
Direction: N



Date: 2/10/2026
Time: 10:40
Notes: Image depicts the dune area we are located in.
Latitude: 32.79532777777778
Longitude: -104.08163333333333
Direction: NE

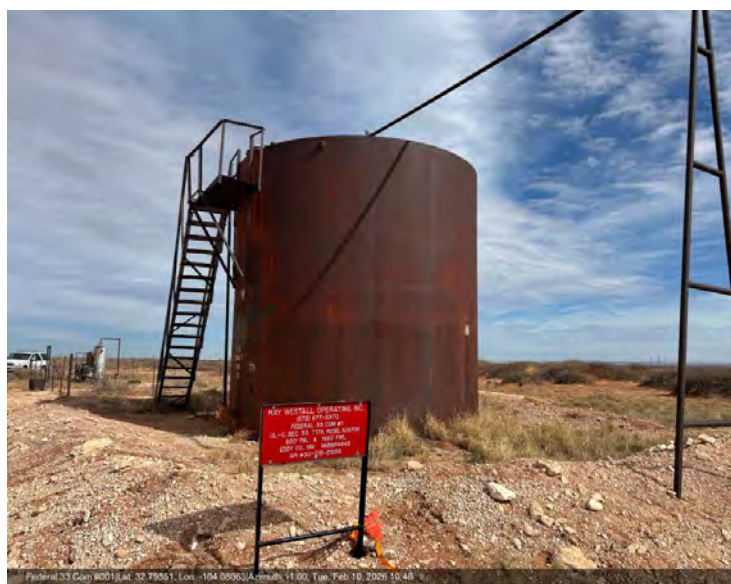




Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:48
Notes: Image of the tank on the east side of the pad
Latitude: 32.79351388888889
Longitude: -104.08062777777778
Direction: SE



Date: 2/10/2026
Time: 10:49
Notes: Image of the tank on the east side of the pad
Latitude: 32.79565833333333
Longitude: -104.08131388888889
Direction: S





Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:50
Notes: Image taken of the tank on the east side of the pad
Latitude: 32.7958222222222
Longitude: -104.08103888888888
Direction: SE



Date: 2/10/2026
Time: 10:50
Notes: Image taken of the tank on the east side
Latitude: 32.79591111111111
Longitude: -104.08175555555555
Direction: S





Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:51
Notes: East side between the tank and production equipment looking towards the pasture
Latitude: 32.795852777777775
Longitude: -104.08178611111111
Direction: W



Date: 2/10/2026
Time: 10:51
Notes: Production equipment on the east side
Latitude: 32.795747222222222
Longitude: -104.08178611111111
Direction: NW

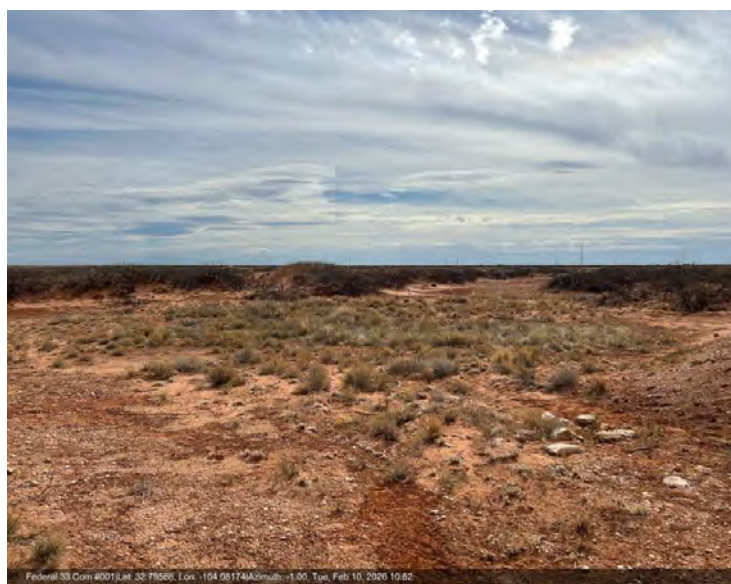




Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:52
Notes: East of the tank towards the pasture
Latitude: 32.79565555555555
Longitude: -104.08174166666666
Direction: NW



Date: 2/10/2026
Time: 10:52
Notes: Production equipment on the east side of the pad
Latitude: 32.795944444444444
Longitude: -104.08149722222223
Direction: NE





Daily Field Log
Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
Time: 10:53
Notes: Production equipment on the east side
Latitude: 32.795963888888885
Longitude: -104.08129166666666
Direction: E



Date: 2/10/2026
Time: 10:53
Notes: Production equipment on the east side
Latitude: 32.795925
Longitude: -104.08126111111111
Direction: NE





Daily Field Log

Site: Federal 33 Com #001

Pictures/Attachments

Date: 2/10/2026
 Time: 11:20
 Notes: Site view east of the pas
 Latitude: 32.78098333333333
 Longitude: -104.07050277777778
 Direction: N



Date: 2/10/2026
 Time: 11:21
 Notes: Site view north leaving pad
 Latitude: 32.77950277777778
 Longitude: -104.06939722222222
 Direction: W



By: Lakin Pullman

Weather _____
 Staff On-site _____
 Staff From Time _____
 Tailgate meeting conducted _____

Contractor _____
 Contractor Crew _____
 Equipment On Site _____
 Incident ID Number _____

Work Summary:

Time	Observations
16:47:21	Surveyed pad and extended into pasture north, east, south, and west of the pad in vertical and horizontal dipole modes. Anomalies east, south, and west of the pad were encapsulated with an approximately 20 meter "buffer".



Daily Field Log
Site: Federal 33 Com #001

Time Observations

17:21:44	The EM survey was terminated north of the pad due to proximity to a Cultural Site boundary. Encapsulation of anomalies north of the pad was not achieved.
17:31:03	Anomalies due to metal interference were present adjacent to production equipment and buried pipelines. Equipment, fences, pipelines, and steel debris were mapped with Juniper Geode in ArcGIS.
20:35:45	On site to complete electromagnetic survey. EM 31 was calibrated in the pasture west of the pad and the batteries were checked prior to the survey.

Pictures/Attachments

Appendix F

Correspondence



Vertex Resource Services, Inc.
Colorado • New Mexico • Texas

District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS

Action 13575

QUESTIONS

Operator: RAY WESTALL OPERATING, INC. P.O. Box 4 Loco Hills, NM 88255	OGRID: 119305
	Action Number: 13575
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all of the questions in this group.</i>	
Site Name	FEDERAL 33 COM # 1
Date Release Discovered	12/31/2020
Surface Owner	Federal

Incident Details	
<i>Please answer all of the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Cause: Equipment Failure Valve Condensate Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	VALVE ON WELLHEAD LEAKED CAUSING SPRAY ACROSS LOCATION, STAINING OIL.
Is this a gas only submission (i.e. only significant Mcf values reported)	More volume information must be supplied to determine if this will be treated as a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	Not answered.
If YES, was immediate notice given to the OCD, to whom	Not answered.
If YES, was immediate notice given to the OCD, when	Not answered.
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Not answered.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	WE ARE GOING TO SPRAY MICRO BLAZE ON LOCATION TO REMOVE STAINING

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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

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Energy, Minerals and Natural Resources
Oil Conservation Division
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ACKNOWLEDGMENTS

Action 13575

ACKNOWLEDGMENTS

Operator: RAY WESTALL OPERATING, INC. P.O. Box 4 Loco Hills, NM 88255	OGRID: 119305
	Action Number: 13575
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☒	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☒	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.
☒	I acknowledge the fact that 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.
☒	I acknowledge the fact that, 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.

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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

Action 13575

CONDITIONS

Operator: RAY WESTALL OPERATING, INC. P.O. Box 4 Loco Hills, NM 88255	OGRID: 119305
	Action Number: 13575
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
marcus	None	1/4/2021

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	NAPP2100441738
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	RAY WESTALL OPERATING, INC.	OGRID	119305
Contact Name	DONNIE MATHEWS	Contact Telephone	575-677-2370
Contact email	mathewsad@hotmail.com	Incident # (assigned by OCD)	
Contact mailing address	P.O BOX 4, LOCO HILLS, NM 88255		

Location of Release Source

Latitude 32.79590 Longitude -104.08190
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	FEDERAL 33 COM # 1	Site Type	GAS WELL
Date Release Discovered	12/31/20	API# (if applicable)	30-015-21259

Unit Letter	Section	Township	Range	County
C	33	17S	29E	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)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls) <u>5 bbls</u>	Volume Recovered (bbls) <u>0</u>
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release VALVE ON TOP OF WELLHEAD LEAKED CAUSING SPRAY ACROSS LOCATION. STAINING OIL.

Submitted to OCD 1/4/21
via online portal

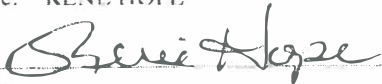
State of New Mexico
Oil Conservation Division

Incident ID	NAPP2100441738
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: RENE HOPE	Title: BOOKKEEPER
Signature: 	Date: 01/04/21
email: hope_rene@yahoo.com	Telephone: 575-677-2370
OCD Only	
Received by: Ramona Marcus	Date: 5/17/2021

NAPP2100441738

State Of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor
Sarah Cottrell Propst
Cabinet Secretary
Todd E. Leahy, JD, PhD
Deputy Cabinet Secretary

Adrienne Sandoval
Division Director



**"Response Required - Deadline
Enclosed"**

Field Inspection Program
"Preserving the Integrity of Our Environment"

11-Jan-21

RAY WESTALL OPERATING, INC.
P.O. Box 4
Loco Hills, NM 88255

LETTER OF VIOLATION - Field Inspection

Dear Operator:

The following inspection indicates that the well, equipment, location or operational status of the well failed to meet standards of the New Mexico Oil Conservation Division as described in the detail section below. To comply with standards imposed by Rules and Regulations of the Division, corrective action must be taken immediately and the situation brought into compliance. The detail section indicates preliminary findings and/or probable nature of the violation. This determination is based on an inspection of your well or facility by an inspector employed by the Oil Conservation Division on the date indicated.

Please notify the proper district office of the Division, in writing, of the date corrective actions are scheduled to be made so that arrangements can be made to reinspect the well and/or facility.

INSPECTION DETAIL SECTION

[30-015-21259] FEDERAL 33 COM #001

OGRID: 119305

C-33-17S-29E 850 FNL 1980 FWL

Inspection Date	Type Inspection	Inspector	Corrective Action Due By	Inspection No.
12/31/2020	Routine Inspection	[CZH] Chad Hensley	3/31/2021	ICZH2036642504

Violations:

Rule

19.15.29 Releases

Violation

Surface Leaks/Spills

Comment:

REPORTABLE SPILL ON LOCATION THAT COVERS approximately 20 ft by 15ft area.

In the event that a satisfactory response is not received to this letter of direction by the "Corrective Action Due By," date shown above, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well.

Sincerely,

Artesia OCD District Office

Note: Information in Detail Section comes directly from field inspector data entries - not all blanks will contain data

Oil Conservation Division * 811 S. First St. * Artesia, NM 88210
Phone: 575-748-1283 * Fax: 575-748-9720 * www.emnrd.state.nm.us

District I
1625 N. French Dr., Hobbs, NM 88240
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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

Action 28047

CONDITIONS OF APPROVAL

Operator:	RAY WESTALL OPERATING, INC.	P.O. Box 4	Loco Hills, NM88255	OGRID:	119305	Action Number:	28047	Action Type:	C-141
OCD Reviewer	Condition								
mrcus	None								

From: Stewart, Sunalei (sstewart@nmslo.gov)
 To: hope_rnc@yahoo.com
 Cc: ebisbeykuehn@nmslo.gov; fdipalma@nmslo.gov; melanie.kenderdine@emnrd.nm.gov; mathewsad@hotmail.com; nmoil@aol.com
 Date: Thursday, September 11, 2025 at 03:27 PM MDT

Ms. Hope:

Moving forward, please direct your correspondence on this topic to Liz Bisbey-Kuehn, who manages our Environmental Compliance Office (ECO). She is the point of contact on this issue for the NMSLO and has been reaching out to the company to convey our agency's needs.

That said, while we appreciate the submittal of the Closure Report attachments for Federal 33 Com #001, it appears that the spill hasn't been properly closed out. Per OCD's website, the remediation closure report was denied on 6/8/2022 for failure to properly determine depth to groundwater and failure to test for total hydrocarbons. An updated report submitted in August was denied on September 24, 2022 for those same reasons. OCD requested an updated report correcting these deficiencies be submitted by October 24, 2022. There is no record that an updated report was submitted.

The proposal to remediate using natural attenuation is not accepted by NMSLO. In addition, the depth to groundwater has yet to be adequately determined. If your company does not wish to determine depth to groundwater, you may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC.

Our Environmental Compliance Office has developed guidance to assist you in preparing site assessment, remediation, and reclamation workplans. We are also happy to meet with you to go through the spill reporting and remediation and reclamation process and requirements to ensure compliance with our lease terms and regulatory requirements. I encourage a meeting with our ECO team to ensure you understand the reporting responsibilities and requirements.

According to the OCD website, there are six additional open incidents at facilities located on state trust land that must be resolved. These incidents date back over twenty years and NMSLO has no record of receiving any information regarding these sites. Please review the list below and provide the spill notifications and remediation and reclamation workplans to ECO.

Please follow up with Liz by next Monday to discuss next steps to promptly resolve these issues. She can be reached via email or at (505) 827-5737. Thank you.

Incident Id & Site Name ①	Operator	Associated Entities (Facility / Well)	Date ①	Guiding Rule	Status	Stage	Type	Severity ①	Vol
① nAPP2216454871 Fireweed 10	119305. RAY WESTALL	30-015-29165, FIREWEED 10 ..	06/13/2022	29	A	ANA	SWS	+	
② nAPP2100441738 FEDERAL 33 C..	119305. RAY WESTALL	30-015-21259, FEDERAL 33 C..	12/31/2020	29	A	AIA	OS	-	
③ nAB1919942542 SENSELINE BO..	119305. RAY WESTALL	fAB1919942071, SENSELINE BO...	07/02/2019	29	A	AIA	SWS	+	
nPAC0801756988 HOVER #002	18862. RAY WESTALL	30-025-27291, HOVER #002	04/21/2007	29	A	AIA	OTH		
nMLB0425746818 CULWIN QUEEN	119305. RAY WESTALL	30-015-26964, CULWIN QUEEN,	08/23/2004	29	A	A	SWS	-	
nMCS0314050010 2003 I INIT	119305. RAY WESTALL	30-015-04573, CULWIN QUEEN	01/19/2003	29	I	I			
nSAD0105952764 2001 A SWS @	18862. RAY WESTALL	30-025-28243, CASA STATE #003	02/21/2001	29	A	A	SWS		

Sunalei Stewart
 Deputy Commissioner of Operations
 New Mexico State Land Office
 310 Old Santa Fe Trail
 P.O. Box 1148
 Santa Fe, NM 87504-1148
 505.827.5760

sstewart@nmslo.gov
 nmstateilands.org



From: [Velez, Nelson, EMNRD](#)
To: [Andrew Parker](#)
Cc: [Donnie Mathews](#); [Rene Hope](#); [Bisbey-Kuehn, Elizabeth A.](#); [Sharon Minnix](#); [Bratcher, Michael, EMNRD](#)
Subject: Re: [EXTERNAL] Ray Westall Operating - Federal 33 Com #1 - nAPP2100441738 Extension Request
Date: Thursday, November 13, 2025 9:08:17 AM
Attachments: [image001.png](#)
[Outlook-oeuiouuu.png](#)

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Andrew,

Thank you for the correspondence.

Due to the date of discovery in December 2020 and with only Microblaze being applied within the overspray area since that time, your 90-day time extension request is denied. Please submit a site characterization/remediation plan or final remediation closure report as soon as possible.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Senior Environmental Scientist
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Andrew Parker <aparker@vertexresource.com>
Sent: Monday, November 10, 2025 9:27 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Donnie Mathews <mathewsad@hotmail.com>; Rene Hope <hope_rene@yahoo.com>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Sharon Minnix <SMinnix@vertexresource.com>
Subject: [EXTERNAL] Ray Westall Operating - Federal 33 Com #1 - nAPP2100441738 Extension

Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

NMOCD,

On the behalf of Ray Westall Operating , Inc; Vertex Resource Services respectfully asks NMOCD for a 90-day extension to submit a revised remediation plan for Incident nAPP2100441738. The revised remediation plan will be due no later than February 11, 2026. We ask for a 90-day extension in lieu of a 60-day extension so we can complete any biological and cultural surveys required by SLO-ECO prior to commencing additional on and off-site delineation of impacted soils.

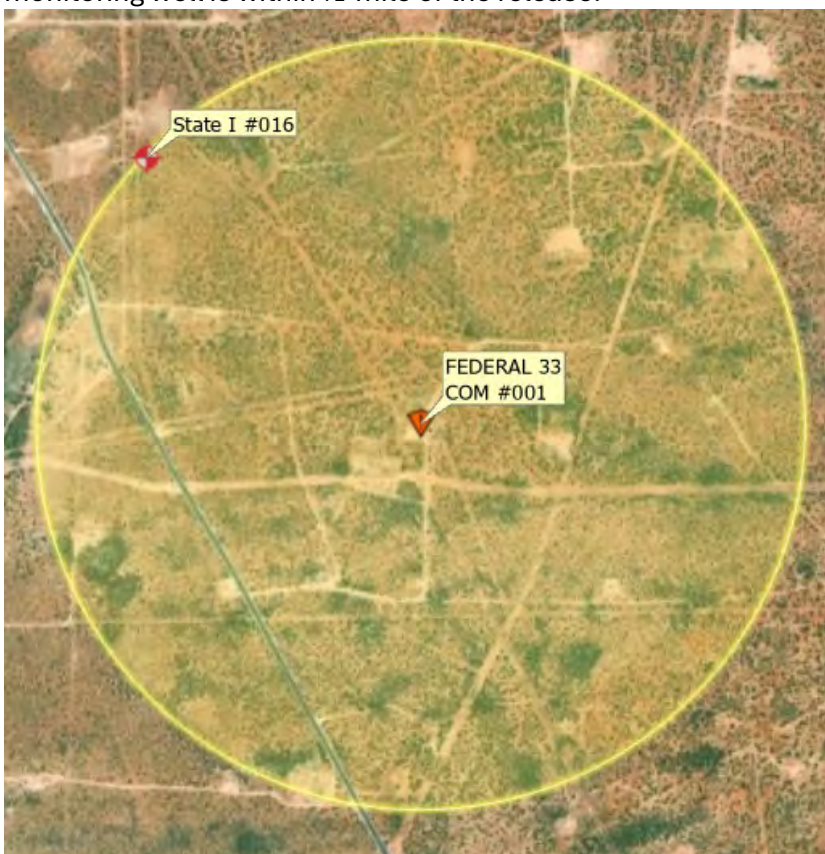
The request for extension is validated to the fact the Ray Westall Operating retained Vertex in mid-October 2025 as their environmental consult. Currently, Vertex is reviewing prior reports submitted to NMOCD. Data reviewed to date determined that:

- A monitoring well, completed by Terracon on March 07, 2025; is located within 0.5 miles of the Federal 33 Com #1 (see below screenshot). The monitoring well is associated with Spur Energy's Incident # nAPP2110253617. Data shows that depth-to-water is >100 feet below ground surface (131.85 feet below top of casing). Vertex will rely on this data for depth-to-water determination. The Terracon report has a disclaimer that the boring log is not valid if separated from the associated report. Therefore, we refer the reader to page 19 of 43 of Terracon's report available at https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/SupportingDocuments/app/app_504743_1280250.pdf
- Preliminary review of data collected to date suggests additional horizontal and vertical soil delineation and sampling may be necessary. Vertex may elect to conduct an electromagnetic survey (EM Survey) to identify areas of potential interest.
- Prior to any on-site environmental activities, a biological and cultural review per SLO-ECO guidelines will be conducted. Review of our internal data shows a cultural sensitive area northeast of the site.
- NMOCD and SLO-ECO will be presented with sampling plans for any on-site investigations to avoid further delays.
- After completion of proposed EM Survey and soil sampling, NMOCD and SLO-ECO will be presented with an appropriate remediation plan.

We look forward to working with NMOCD and SLO-ECO toward resolution of the regulatory file.

Please contact me with any questions.

Location of depth-to-water monitoring well at the State I #016. Yellow circle shows that the monitoring well is within ½-mile of the release.



Thank you for your consideration,

Andrew Parker

Senior Project Manager

Cell: 575.689.7007

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

Office: 575.725.5001

www.vertexresource.com

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From: [Andrew Parker](#)
To: eco@nmslo.gov; [Enviro, OCD, EMNRD](#)
Cc: [Bisbey-Kuehn, Elizabeth A.](#); [Donnie Mathews](#); [Rene Hope](#); [Sharon Minnix](#)
Subject: (EM Assessment Notification) Ray Westall Operating Federal 33 Com 1 (30-015-21259/nAPP2100441738)-02-3-2026
Date: Tuesday, February 3, 2026 9:55:00 AM
Attachments: [image006.png](#)
[image007.png](#)
[image003.png](#)

SLO-ECO/NMOCD:

Please accept this email as the 3-day EM Survey Assessment notification for the Federal 33 Com 1 (30-015-21259/nAPP2100441738). The EM Survey is scheduled for Tuesday February 10, 2026.

Regards,

Andrew Parker
Senior Project Manager
Cell: 575.689.7007

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, NM 88220
Office: 575.725.5001

www.vertexresource.com

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From: SLO Spills <spills@nmslo.gov>
Sent: Friday, January 30, 2026 12:17 PM
To: Andrew Parker <aparker@vertexresource.com>
Cc: Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Donnie Mathews <mathewsad@hotmail.com>; Rene Hope <hope_rene@yahoo.com>; Sharon Minnix <SMinnix@vertexresource.com>
Subject: RE: (EM Assessment Plan) Ray Westall Operating Federal 33 Com 1 (30-015-21259/nAPP2100441738)-01-26-2026

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

Andrew

Please proceed with the EM Survey. Submit the Right of Entry for Remediation permit number on all subsequent documentation submitted to ECO.

Tami C. Knight, CHMM
Senior Environmental Scientist
Environmental Compliance Office
Mobile: 505.670.1638
tknight@nmslo.gov
nmstatelands.org
OOO Notice: Jan 28-30
ECO is OOO for training Feb 23-26

Reminder: All notifications, workplans, and reports must be submitted to eco@nmslo.gov. Submittal of these items to individual ECO staff emails will not be accepted.

.....
CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is STRICTLY PROHIBITED. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: Andrew Parker <aparker@vertexresource.com>
Sent: Monday, January 26, 2026 3:43 PM
To: SLO Spills <spills@nmslo.gov>; Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>
Cc: Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov>; Donnie Mathews <mathewsad@hotmail.com>; Rene Hope <hope_rene@yahoo.com>; Sharon Minnix <SMinnix@vertexresource.com>
Subject: [EXTERNAL] (EM Assessment Plan) Ray Westall Operating Federal 33 Com 1 (30-015-21259/nAPP2100441738)-01-26-2026

SLO-ECO/NMOCD:

This correspondence is to inform that Ray Westall Operating is moving forward with remedial activities for the subject referenced release. Due to cultural sensitivity, Vertex Resources is submitting the attached workplan to assess current soils salinity caused by the reported release. Upon SLO-ECO approval Vertex will schedule the EM Survey and provide SLO-ECO and NMOCD with a 3-day prior notification to the scheduled survey.

Thank you,

Andrew Parker

Senior Project Manager

Cell: 575.689.7007

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

Office: 575.725.5001

www.vertexresource.com

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From: [Andrew Parker](#)
To: ["eco@nmslo.gov"](mailto:eco@nmslo.gov)
Cc: ["Bisbey-Kuehn, Elizabeth A.";](#) ["Donnie Mathews";](#) ["Rene Hope";](#) [Sharon Minnix](#)
Subject: RE: (EM Assessment Notification) Ray Westall Operating Federal 33 Com 1 (30-015-21259/nAPP2100441738)-02-5-2026
Date: Thursday, February 5, 2026 4:05:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[Vertex Site Visit Federal 33 Com #1 Permission Letter 02052026.pdf](#)
[image005.png](#)

SLO-ECO,

Update to notification to include ROE.

Attached is the temporary ROE for the EM Survey. The EM Survey will occur on February 10, 2026 at 8am. Vertex Resources will have a hard copy of the permission letter on-site during the site visit. Ray Westall Operating will be submitting a request for a Right-of-Entry permit for subsequent remediation work.

Andrew Parker

Senior Project Manager

Cell: 575.689.7007

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

Office: 575.725.5001

www.vertexresource.com

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From: Andrew Parker

Sent: Tuesday, February 3, 2026 9:55 AM

To: eco@nmslo.gov; Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>

Cc: [Bisbey-Kuehn, Elizabeth A.](#) <ebisbeykuehn@nmslo.gov>; [Donnie Mathews](#) <mathewsad@hotmail.com>; [Rene Hope](#) <hope_rene@yahoo.com>; [Sharon Minnix](#) <SMinnix@vertexresource.com>

Subject: (EM Assessment Notification) Ray Westall Operating Federal 33 Com 1 (30-015-21259/nAPP2100441738)-02-3-2026

SLO-ECO/NMOCD:

Please accept this email as the 3-day EM Survey Assessment notification for the Federal 33 Com 1 (30-015-21259/nAPP2100441738). The EM Survey is scheduled for Tuesday February 10, 2026.

Regards,

Andrew Parker

Senior Project Manager

Cell: 575.689.7007

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

Office: 575.725.5001

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From: SLO Spills <spills@nmslo.gov>

Sent: Friday, January 30, 2026 12:17 PM

To: Andrew Parker <aparker@vertexresource.com>

Cc: Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Donnie Mathews <mathewsad@hotmail.com>; Rene Hope <hope_rene@yahoo.com>; Sharon Minnix <SMinnix@vertexresource.com>

Subject: RE: (EM Assessment Plan) Ray Westall Operating Federal 33 Com 1 (30-015-21259/nAPP2100441738)-01-26-2026

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

Andrew

Please proceed with the EM Survey. Submit the Right of Entry for Remediation permit number on all subsequent documentation submitted to ECO.

Tami C. Knight, CHMM
Senior Environmental Scientist
Environmental Compliance Office
Mobile: 505.670.1638

tknight@nmslo.gov

nmstatelands.org

OOO Notice: Jan 28-30

ECO is OOO for training Feb 23-26

Reminder: All notifications, workplans, and reports must be submitted to eco@nmslo.gov. Submittal of these items to individual ECO staff emails will not be accepted.

.....
CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is STRICTLY PROHIBITED. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: Andrew Parker <aparker@vertexresource.com>

Sent: Monday, January 26, 2026 3:43 PM

To: SLO Spills <spills@nmslo.gov>; Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>

Cc: Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov>; Donnie Mathews <mathewsad@hotmail.com>; Rene Hope <hope_rene@yahoo.com>; Sharon Minnix <SMinnix@vertexresource.com>

Subject: [EXTERNAL] (EM Assessment Plan) Ray Westall Operating Federal 33 Com 1 (30-015-21259/nAPP2100441738)-01-26-2026

SLO-ECO/NMOCD:

This correspondence is to inform that Ray Westall Operating is moving forward with remedial activities for the subject referenced release. Due to cultural sensitivity, Vertex Resources is submitting the attached workplan to assess current soils salinity caused by the reported release. Upon SLO-ECO approval Vertex will schedule the EM Survey and provide SLO-ECO and NMOCD with a 3-day prior notification to the scheduled survey.

Thank you,

Andrew Parker

Senior Project Manager

Cell: 575.689.7007

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

Office: 575.725.5001

www.vertexresource.com

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may

From: OCDOnline@emnrd.nm.gov
To: [Andrew Parker](#)
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 575744
Date: Thursday, May 21, 2026 9:49:25 AM

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

To whom it may concern (c/o Andrew Parker for RAY WESTALL OPERATING, INC.),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2100441738, for the following reasons:

- **Remediation plan is denied for the following reasons; 1. OCD does not acknowledge or accept a reclamation work plan within a remediation plan submittal. 2. Under section 4.2 of the report, remediation activities require sampling to be conducted per 19.15.29.12D NMAC. Any remediation activity not stated under 19.15.29.12D NMAC must be pre-approve via a variance prior to its implementation. 3. Ray Westall Operating has 90-days (August 19, 2026) to submit to OCD its appropriate or final remediation closure report.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 575744.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Nelson Velez
Environmental Specialist - Advanced
505-469-6146
Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Appendix G

Laboratory Certificate of Analyses



Vertex Resource Services, Inc.
Colorado • New Mexico • Texas



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

May 17, 2021

Madison Buechter

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX: (505) 266-0745

RE: RWO Federal 33

OrderNo.: 2105386

Dear Madison Buechter:

Hall Environmental Analysis Laboratory received 24 sample(s) on 5/8/2021 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: A 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 8:40:00 AM

Lab ID: 2105386-001

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	17000	610		mg/Kg	200	5/13/2021 8:34:27 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/10/2021 7:03:29 PM	59895
Toluene	ND	0.049		mg/Kg	1	5/10/2021 7:03:29 PM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 7:03:29 PM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2021 7:03:29 PM	59895
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/10/2021 7:03:29 PM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: A 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 8:43:00 AM

Lab ID: 2105386-002

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	11000	600		mg/Kg	200	5/13/2021 8:46:52 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/10/2021 8:14:23 PM	59895
Toluene	ND	0.049		mg/Kg	1	5/10/2021 8:14:23 PM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 8:14:23 PM	59895
Xylenes, Total	ND	0.097		mg/Kg	1	5/10/2021 8:14:23 PM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/10/2021 8:14:23 PM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: B 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 8:45:00 AM

Lab ID: 2105386-003

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	14000	600		mg/Kg	200	5/13/2021 8:59:16 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/10/2021 8:37:58 PM	59895
Toluene	ND	0.049		mg/Kg	1	5/10/2021 8:37:58 PM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 8:37:58 PM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2021 8:37:58 PM	59895
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/10/2021 8:37:58 PM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: B 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 8:47:00 AM

Lab ID: 2105386-004

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	13000	610		mg/Kg	200	5/13/2021 9:11:40 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/10/2021 9:01:35 PM	59895
Toluene	ND	0.050		mg/Kg	1	5/10/2021 9:01:35 PM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 9:01:35 PM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/10/2021 9:01:35 PM	59895
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/10/2021 9:01:35 PM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: C 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 8:50:00 AM

Lab ID: 2105386-005

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8700	300		mg/Kg	100	5/13/2021 9:24:04 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/10/2021 9:24:56 PM	59895
Toluene	ND	0.050		mg/Kg	1	5/10/2021 9:24:56 PM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 9:24:56 PM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/10/2021 9:24:56 PM	59895
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/10/2021 9:24:56 PM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: C 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 8:53:00 AM

Lab ID: 2105386-006

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8800	600		mg/Kg	200	5/13/2021 9:36:29 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/10/2021 9:48:24 PM	59895
Toluene	ND	0.049		mg/Kg	1	5/10/2021 9:48:24 PM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 9:48:24 PM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2021 9:48:24 PM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/10/2021 9:48:24 PM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: D 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 8:57:00 AM

Lab ID: 2105386-007

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8800	300		mg/Kg	100	5/13/2021 9:48:53 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/10/2021 11:23:11 PM	59895
Toluene	ND	0.050		mg/Kg	1	5/10/2021 11:23:11 PM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 11:23:11 PM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/10/2021 11:23:11 PM	59895
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	5/10/2021 11:23:11 PM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: D 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:00:00 AM

Lab ID: 2105386-008

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	9000	590		mg/Kg	200	5/13/2021 10:01:18 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/10/2021 11:46:55 PM	59895
Toluene	ND	0.049		mg/Kg	1	5/10/2021 11:46:55 PM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 11:46:55 PM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2021 11:46:55 PM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/10/2021 11:46:55 PM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: E 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:03:00 AM

Lab ID: 2105386-009

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	17000	1500		mg/Kg	500	5/13/2021 10:38:33 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 12:10:32 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 12:10:32 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 12:10:32 AM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/11/2021 12:10:32 AM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/11/2021 12:10:32 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: E 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:05:00 AM

Lab ID: 2105386-010

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	19000	1500		mg/Kg	500	5/13/2021 10:50:57 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 12:34:03 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 12:34:03 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 12:34:03 AM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2021 12:34:03 AM	59895
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	5/11/2021 12:34:03 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: F 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:07:00 AM

Lab ID: 2105386-011

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5000	150		mg/Kg	50	5/13/2021 11:03:22 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 12:57:33 AM	59895
Toluene	ND	0.049		mg/Kg	1	5/11/2021 12:57:33 AM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2021 12:57:33 AM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/11/2021 12:57:33 AM	59895
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/11/2021 12:57:33 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: F 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:09:00 AM

Lab ID: 2105386-012

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6200	300		mg/Kg	100	5/13/2021 11:15:47 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/11/2021 1:21:05 AM	59895
Toluene	ND	0.049		mg/Kg	1	5/11/2021 1:21:05 AM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2021 1:21:05 AM	59895
Xylenes, Total	ND	0.097		mg/Kg	1	5/11/2021 1:21:05 AM	59895
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/11/2021 1:21:05 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: G 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:11:00 AM

Lab ID: 2105386-013

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 4:32:27 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 1:44:26 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 1:44:26 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 1:44:26 AM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2021 1:44:26 AM	59895
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/11/2021 1:44:26 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: G 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:13:00 AM

Lab ID: 2105386-014

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 4:44:51 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 2:07:49 AM	59895
Toluene	ND	0.049		mg/Kg	1	5/11/2021 2:07:49 AM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2021 2:07:49 AM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2021 2:07:49 AM	59895
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/11/2021 2:07:49 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: H 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:16:00 AM

Lab ID: 2105386-015

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6200	300		mg/Kg	100	5/13/2021 11:28:12 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 2:31:20 AM	59895
Toluene	ND	0.049		mg/Kg	1	5/11/2021 2:31:20 AM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2021 2:31:20 AM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/11/2021 2:31:20 AM	59895
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/11/2021 2:31:20 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: H 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:18:00 AM

Lab ID: 2105386-016

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4000	150		mg/Kg	50	5/13/2021 11:40:37 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 2:54:52 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 2:54:52 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 2:54:52 AM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/11/2021 2:54:52 AM	59895
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/11/2021 2:54:52 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: I 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:21:00 AM

Lab ID: 2105386-017

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8800	300		mg/Kg	100	5/14/2021 7:21:35 AM	59998
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 3:42:03 AM	59895
Toluene	ND	0.049		mg/Kg	1	5/11/2021 3:42:03 AM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2021 3:42:03 AM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2021 3:42:03 AM	59895
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/11/2021 3:42:03 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: I 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:23:00 AM

Lab ID: 2105386-018

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	7200	300		mg/Kg	100	5/14/2021 7:34:00 AM	59998
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 4:05:40 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 4:05:40 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 4:05:40 AM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/11/2021 4:05:40 AM	59895
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/11/2021 4:05:40 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: J 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:26:00 AM

Lab ID: 2105386-019

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 1:58:39 PM	59998
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 4:29:15 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 4:29:15 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 4:29:15 AM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/11/2021 4:29:15 AM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/11/2021 4:29:15 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: J 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:28:00 AM

Lab ID: 2105386-020

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 2:11:04 PM	59998
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 4:52:56 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 4:52:56 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 4:52:56 AM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2021 4:52:56 AM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/11/2021 4:52:56 AM	59895

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: K 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:31:00 AM

Lab ID: 2105386-021

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 2:23:29 PM	59998
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	5/10/2021 12:40:00 PM	59896
Toluene	ND	0.050		mg/Kg	1	5/10/2021 12:40:00 PM	59896
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 12:40:00 PM	59896
Xylenes, Total	ND	0.099		mg/Kg	1	5/10/2021 12:40:00 PM	59896
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	5/10/2021 12:40:00 PM	59896

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: K 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:33:00 AM

Lab ID: 2105386-022

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	60	60		mg/Kg	20	5/13/2021 2:35:54 PM	59998
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	5/10/2021 1:40:00 PM	59896
Toluene	ND	0.050		mg/Kg	1	5/10/2021 1:40:00 PM	59896
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 1:40:00 PM	59896
Xylenes, Total	ND	0.10		mg/Kg	1	5/10/2021 1:40:00 PM	59896
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	5/10/2021 1:40:00 PM	59896

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: AO

Project: RWO Federal 33

Collection Date: 5/7/2021 9:40:00 AM

Lab ID: 2105386-023

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	25000	1500		mg/Kg	500	5/14/2021 7:46:25 AM	59998
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	5/10/2021 2:00:00 PM	59896
Toluene	ND	0.050		mg/Kg	1	5/10/2021 2:00:00 PM	59896
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 2:00:00 PM	59896
Xylenes, Total	ND	0.099		mg/Kg	1	5/10/2021 2:00:00 PM	59896
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	5/10/2021 2:00:00 PM	59896

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: GO

Project: RWO Federal 33

Collection Date: 5/7/2021 9:43:00 AM

Lab ID: 2105386-024

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 3:25:34 PM	59998
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	5/10/2021 2:20:00 PM	59896
Toluene	ND	0.049		mg/Kg	1	5/10/2021 2:20:00 PM	59896
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 2:20:00 PM	59896
Xylenes, Total	ND	0.099		mg/Kg	1	5/10/2021 2:20:00 PM	59896
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	5/10/2021 2:20:00 PM	59896

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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

WO#: 2105386

17-May-21

Client: R.T. Hicks Consultants, LTD**Project:** RWO Federal 33

Sample ID: MB-59993	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59993	RunNo: 77319								
Prep Date: 5/12/2021	Analysis Date: 5/12/2021	SeqNo: 2744422	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59993	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59993	RunNo: 77319								
Prep Date: 5/12/2021	Analysis Date: 5/12/2021	SeqNo: 2744423	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Sample ID: MB-59998	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59998	RunNo: 77382								
Prep Date: 5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745670	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59998	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59998	RunNo: 77382								
Prep Date: 5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745671	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	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 Quantitative 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

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

WO#: 2105386

17-May-21

Client: R.T. Hicks Consultants, LTD**Project:** RWO Federal 33

Sample ID: mb-59895	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59895	RunNo: 77262								
Prep Date: 5/8/2021	Analysis Date: 5/10/2021	SeqNo: 2740981 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: LCS-59895	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59895	RunNo: 77262								
Prep Date: 5/8/2021	Analysis Date: 5/10/2021	SeqNo: 2740982 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.8	80	120			
Toluene	1.0	0.050	1.000	0	99.9	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: 2105386-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: A 0-4	Batch ID: 59895	RunNo: 77262								
Prep Date: 5/8/2021	Analysis Date: 5/10/2021	SeqNo: 2740984 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	76.3	120			
Toluene	1.1	0.050	1.000	0	106	78.5	120			
Ethylbenzene	1.1	0.050	1.000	0	107	78.1	124			
Xylenes, Total	3.2	0.10	3.000	0	106	79.3	125			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: 2105386-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: A 0-4	Batch ID: 59895	RunNo: 77262								
Prep Date: 5/8/2021	Analysis Date: 5/10/2021	SeqNo: 2740985 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9921	0	103	80	120	1.95	20	
Toluene	1.0	0.050	0.9921	0	105	80	120	1.80	20	
Ethylbenzene	1.0	0.050	0.9921	0	106	80	120	2.16	20	
Xylenes, Total	3.2	0.099	2.976	0	106	80	120	1.05	20	
Surr: 4-Bromofluorobenzene	1.1		0.9921		108	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 Quantitative 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

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

WO#: 2105386

17-May-21

Client: R.T. Hicks Consultants, LTD**Project:** RWO Federal 33

Sample ID: LCS-59896	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 59896			RunNo: 77292						
Prep Date: 5/8/2021	Analysis Date: 5/10/2021			SeqNo: 2741808		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	80	120			
Toluene	0.90	0.050	1.000	0	89.9	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.0	70	130			

Sample ID: mb-59896	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 59896			RunNo: 77292						
Prep Date: 5/8/2021	Analysis Date: 5/10/2021			SeqNo: 2741809		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		83.9	70	130			

Sample ID: 2105386-021ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: K 0-4	Batch ID: 59896			RunNo: 77292						
Prep Date: 5/8/2021	Analysis Date: 5/10/2021			SeqNo: 2741811		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9804	0	90.7	76.3	120			
Toluene	0.89	0.049	0.9804	0	90.4	78.5	120			
Ethylbenzene	0.91	0.049	0.9804	0	93.3	78.1	124			
Xylenes, Total	2.7	0.098	2.941	0	91.4	79.3	125			
Surr: 4-Bromofluorobenzene	0.84		0.9804		85.6	70	130			

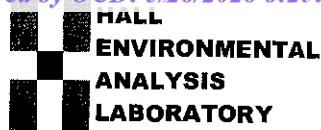
Sample ID: 2105386-021amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: K 0-4	Batch ID: 59896			RunNo: 77292						
Prep Date: 5/8/2021	Analysis Date: 5/10/2021			SeqNo: 2741812		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9794	0	91.8	80	120	1.09	20	
Toluene	0.90	0.049	0.9794	0	92.1	80	120	1.74	20	
Ethylbenzene	0.93	0.049	0.9794	0	95.4	80	120	2.23	20	
Xylenes, Total	2.7	0.098	2.938	0	93.3	80	120	1.95	20	
Surr: 4-Bromofluorobenzene	0.83		0.9794		84.3	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 Quantitative 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 Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **R.T. Hicks Consultants, LTD**

Work Order Number: **2105386**

RcptNo: 1

Received By: **Isaiah Ortiz**

5/8/2021 8:25:00 AM

IOX

Completed By: **Isaiah Ortiz**

5/8/2021 9:11:17 AM

IOX

Reviewed By: *05/08/2021*

Chain of Custody

1. Is Chain of Custody complete? 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 ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

30
5/8/21
(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Not Present			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Any sub-contracted data will be clearly notated on the analytical report if necessary, samples submitted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report



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

October 03, 2022

David Hamilton

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX (505) 266-0745

RE: Fed 33

OrderNo.: 2209C74

Dear David Hamilton:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/23/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 2209C74

Date Reported: 10/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Lab Order: 2209C74

Project: Fed 33

Lab ID: 2209C74-001

Collection Date: 9/21/2022 9:46:00 AM

Client Sample ID: A 0-2'

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: JMT

Chloride	9300	300	300		mg/Kg	100	9/29/2022 11:24:42 AM	70452
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Lab ID: 2209C74-002

Collection Date: 9/21/2022 9:52:00 AM

Client Sample ID: NS-2 0-2'

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: JMT

Chloride	18000	1500	1500		mg/Kg	500	9/29/2022 11:37:03 AM	70452
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Lab ID: 2209C74-003

Collection Date: 9/21/2022 10:15:00 AM

Client Sample ID: E 0-2'

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: JMT

Chloride	810	60	60		mg/Kg	20	9/28/2022 1:48:59 PM	70452
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Lab ID: 2209C74-004

Collection Date: 9/21/2022 10:26:00 AM

Client Sample ID: NS-1 0-2'

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: JMT

Chloride	100	60	60		mg/Kg	20	9/28/2022 2:01:20 PM	70452
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Lab ID: 2209C74-005

Collection Date: 9/21/2022 10:35:00 AM

Client Sample ID: F 0-2'

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: JMT

Chloride	85	60	60		mg/Kg	20	9/28/2022 3:03:05 PM	70452
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 3

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2209C74

Date Reported: 10/3/2022

CLIENT: R.T. Hicks Consultants, LTD		Lab Order: 2209C74	
Project: Fed 33			
Lab ID: 2209C74-006		Collection Date: 9/21/2022 10:50:00 AM	
Client Sample ID: H 0-2'		Matrix: SOIL	
Analyses	Result	MDL	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS		Analyst: JMT	
Chloride	160	59	59 mg/Kg 20 9/28/2022 3:15:26 PM 70452
Lab ID: 2209C74-007		Collection Date: 9/21/2022 11:04:00 AM	
Client Sample ID: I 0-2'		Matrix: SOIL	
Analyses	Result	MDL	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS		Analyst: JMT	
Chloride	5400	300	300 mg/Kg 100 9/29/2022 11:49:23 AM 70452
Lab ID: 2209C74-008		Collection Date: 9/21/2022 11:18:00 AM	
Client Sample ID: C 0-2'		Matrix: SOIL	
Analyses	Result	MDL	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS		Analyst: JMT	
Chloride	8800	300	300 mg/Kg 100 9/29/2022 12:01:44 PM 70452

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C74
03-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: Fed 33

Sample ID: MB-70452	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 70452	RunNo: 91368
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272046 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-70452	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 70452	RunNo: 91368
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272047 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15	1.5 15.00 0 98.4 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 Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

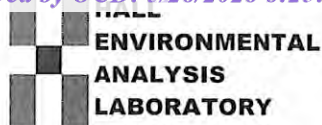
Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit



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

Sample Log-In Check List

Client Name: R.T. Hicks Consultants,
LTD

Work Order Number: 2209C74

RcptNo: 1

Received By: Juan Rojas

9/23/2022 8:40:00 AM

Completed By: Cheyenne Cason

9/23/2022 9:10:19 AM

Reviewed By: KPC 9.23.22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: TMC 9/23/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present			

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record									
Client: <u>RT Hicks Consultants</u>		Turn-Around Time: ☒ Standard ☐ Rush		Project Name: <u>Fed 33</u>					
Mailing Address: <u>901 Rio Grande NW</u>		Project #: <u>33</u>		Project Manager: <u>D. Hamilton</u>					
Site: <u>F-142</u>		Project #: <u>33</u>		Sampler: <u>DH</u>					
Phone #: <u>505 266 5004</u>		Project #: <u>33</u>		On Ice: ☒ Yes ☐ No					
email or Fax#: <u>david@rthicksconsult.com</u>		Project #: <u>33</u>		# of Coolers: <u>1</u>					
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Cooler Temp (including CF): <u>5.7-6.1-5.6 (°C)</u>					
Project #: <u>33</u>		Project #: <u>33</u>		Container Type and #					
Project #: <u>33</u>		Project #: <u>33</u>		Preservative Type					
Project #: <u>33</u>		Project #: <u>33</u>		HEAL No. <u>2209674</u>					
Project #: <u>33</u>		Project #: <							

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report of necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report



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

October 03, 2022

David Hamilton

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX (505) 266-0745

RE: Federal 33

OrderNo.: 2209C76

Dear David Hamilton:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/23/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 2209C76

Date Reported: 10/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Lab Order: 2209C76

Project: Federal 33

Lab ID: 2209C76-001

Collection Date: 9/21/2022 10:00:00 AM

Client Sample ID: P-1 0-2'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	9/28/2022 3:52:29 PM	70452
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 7:02:05 PM	70411
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/28/2022 7:02:05 PM	70411
Surr: DNOP	88.0	21-129		%Rec	1	9/28/2022 7:02:05 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2022 1:52:24 PM	70399
Surr: BFB	96.9	37.7-212		%Rec	1	9/27/2022 1:52:24 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 1:52:24 PM	70399
Toluene	ND	0.050		mg/Kg	1	9/27/2022 1:52:24 PM	70399
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2022 1:52:24 PM	70399
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2022 1:52:24 PM	70399
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	9/27/2022 1:52:24 PM	70399

Lab ID: 2209C76-002

Collection Date: 9/21/2022 10:02:00 AM

Client Sample ID: P-1 0-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	180	60		mg/Kg	20	9/28/2022 4:04:50 PM	70452
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 7:13:08 PM	70411
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2022 7:13:08 PM	70411
Surr: DNOP	118	21-129		%Rec	1	9/28/2022 7:13:08 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 2:15:51 PM	70399
Surr: BFB	93.4	37.7-212		%Rec	1	9/27/2022 2:15:51 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 2:15:51 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 2:15:51 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 2:15:51 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 2:15:51 PM	70399
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	9/27/2022 2:15:51 PM	70399

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

Qualifiers:		*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix		E	Estimated value
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference			

Analytical Report

Lab Order: 2209C76

Date Reported: 10/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Lab Order: 2209C76

Project: Federal 33

Lab ID: 2209C76-003

Collection Date: 9/21/2022 10:04:00 AM

Client Sample ID: P-1 4.25-4.5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	440	60		mg/Kg	20	9/28/2022 4:26:00 PM	70452
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 7:24:11 PM	70411
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/28/2022 7:24:11 PM	70411
Surr: DNOP	109	21-129		%Rec	1	9/28/2022 7:24:11 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2022 2:39:26 PM	70399
Surr: BFB	94.1	37.7-212		%Rec	1	9/27/2022 2:39:26 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 2:39:26 PM	70399
Toluene	ND	0.048		mg/Kg	1	9/27/2022 2:39:26 PM	70399
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2022 2:39:26 PM	70399
Xylenes, Total	ND	0.097		mg/Kg	1	9/27/2022 2:39:26 PM	70399
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	9/27/2022 2:39:26 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order: 2209C76

Date Reported: 10/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Lab Order: 2209C76

Project: Federal 33

Lab ID: 2209C76-004

Collection Date: 9/21/2022 10:06:00 AM

Client Sample ID: P-2 0-2'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	9/28/2022 4:10:52 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 7:35:10 PM	70411
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/28/2022 7:35:10 PM	70411
Surr: DNOP	98.7	21-129		%Rec	1	9/28/2022 7:35:10 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2022 3:02:57 PM	70399
Surr: BFB	94.1	37.7-212		%Rec	1	9/27/2022 3:02:57 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 3:02:57 PM	70399
Toluene	ND	0.048		mg/Kg	1	9/27/2022 3:02:57 PM	70399
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2022 3:02:57 PM	70399
Xylenes, Total	ND	0.095		mg/Kg	1	9/27/2022 3:02:57 PM	70399
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	9/27/2022 3:02:57 PM	70399

Lab ID: 2209C76-005

Collection Date: 9/21/2022 10:08:00 AM

Client Sample ID: P-2 0-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	76	60		mg/Kg	20	9/28/2022 4:23:17 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 7:46:12 PM	70411
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/28/2022 7:46:12 PM	70411
Surr: DNOP	106	21-129		%Rec	1	9/28/2022 7:46:12 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 3:26:31 PM	70399
Surr: BFB	93.9	37.7-212		%Rec	1	9/27/2022 3:26:31 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 3:26:31 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 3:26:31 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 3:26:31 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 3:26:31 PM	70399
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	9/27/2022 3:26:31 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order: 2209C76

Date Reported: 10/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Lab Order: 2209C76

Project: Federal 33

Lab ID: 2209C76-006

Collection Date: 9/21/2022 10:10:00 AM

Client Sample ID: P-2 4.25-4.5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	210	59		mg/Kg	20	9/28/2022 4:35:41 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 7:57:09 PM	70411
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/28/2022 7:57:09 PM	70411
Surr: DNOP	93.4	21-129		%Rec	1	9/28/2022 7:57:09 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 3:50:02 PM	70399
Surr: BFB	94.6	37.7-212		%Rec	1	9/27/2022 3:50:02 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 3:50:02 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 3:50:02 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 3:50:02 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 3:50:02 PM	70399
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	9/27/2022 3:50:02 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2209C76

03-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** Federal 33

Sample ID: MB-70452	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70452	RunNo: 91368								
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272046			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70452	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70452	RunNo: 91368								
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272047			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	90	110			

Sample ID: MB-70457	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70457	RunNo: 91361								
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272148			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70457	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70457	RunNo: 91361								
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272149			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C76

03-Oct-22

Client: R.T. Hicks Consultants, LTD

Project: Federal 33

Sample ID: LCS-70411	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 70411			RunNo: 91371						
Prep Date: 9/26/2022	Analysis Date: 9/28/2022			SeqNo: 3272003		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	82.3	64.4	127			
Surr: DNOP	4.2		5.000		84.7	21	129			

Sample ID: MB-70411	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 70411			RunNo: 91371						
Prep Date: 9/26/2022	Analysis Date: 9/28/2022			SeqNo: 3272004		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.7		10.00		76.9	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C76
03-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: Federal 33

Sample ID: LCS-70399	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 70399	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270523			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: mb-70399	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 70399	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270525			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	930		1000		92.6	37.7	212			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C76

03-Oct-22

Client: R.T. Hicks Consultants, LTD

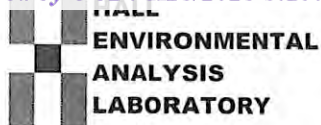
Project: Federal 33

Sample ID: lcs-70399	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270576		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: mb-70399	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270578		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

Sample Log-In Check List

Client Name: R.T. Hicks Consultants,
LTD

Work Order Number: 2209C76

RcptNo: 1

Received By: Juan Rojas

9/23/2022 8:40:00 AM

Completed By: Cheyenne Cason

9/23/2022 9:16:38 AM

Reviewed By:

Kla 9. 23. 22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: TML 9/23/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present			



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

October 07, 2022

David Hamilton

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX (505) 266-0745

RE: Fed 33 Comm

OrderNo.: 2209C79

Dear David Hamilton:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/23/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: A 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 9:48:00 AM

Lab ID: 2209C79-001

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	14000	590		mg/Kg	200	9/29/2022 3:48:48 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	20	15		mg/Kg	1	9/28/2022 8:08:07 PM	70411
Motor Oil Range Organics (MRO)	75	49		mg/Kg	1	9/28/2022 8:08:07 PM	70411
Surr: DNOP	79.5	21-129		%Rec	1	9/28/2022 8:08:07 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2022 4:13:30 PM	70399
Surr: BFB	97.6	37.7-212		%Rec	1	9/27/2022 4:13:30 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 4:13:30 PM	70399
Toluene	ND	0.048		mg/Kg	1	9/27/2022 4:13:30 PM	70399
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2022 4:13:30 PM	70399
Xylenes, Total	ND	0.095		mg/Kg	1	9/27/2022 4:13:30 PM	70399
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	9/27/2022 4:13:30 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: NS-2 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 9:54:00 AM

Lab ID: 2209C79-002

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	19000	610		mg/Kg	200	9/29/2022 4:01:12 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 8:29:45 PM	70411
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/28/2022 8:29:45 PM	70411
Surr: DNOP	81.0	21-129		%Rec	1	9/28/2022 8:29:45 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 5:00:33 PM	70399
Surr: BFB	96.5	37.7-212		%Rec	1	9/27/2022 5:00:33 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 5:00:33 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 5:00:33 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 5:00:33 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 5:00:33 PM	70399
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/27/2022 5:00:33 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: E 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 10:17:00 AM

Lab ID: 2209C79-003

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1700	60		mg/Kg	20	9/28/2022 5:12:55 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 8:51:21 PM	70411
Motor Oil Range Organics (MRO)	66	46		mg/Kg	1	9/28/2022 8:51:21 PM	70411
Surr: DNOP	78.7	21-129		%Rec	1	9/28/2022 8:51:21 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2022 5:23:59 PM	70399
Surr: BFB	90.2	37.7-212		%Rec	1	9/27/2022 5:23:59 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 5:23:59 PM	70399
Toluene	ND	0.050		mg/Kg	1	9/27/2022 5:23:59 PM	70399
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2022 5:23:59 PM	70399
Xylenes, Total	ND	0.10		mg/Kg	1	9/27/2022 5:23:59 PM	70399
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	9/27/2022 5:23:59 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: NS-1 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 10:28:00 AM

Lab ID: 2209C79-004

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	130	60		mg/Kg	20	9/28/2022 5:25:20 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 9:12:56 PM	70411
Motor Oil Range Organics (MRO)	69	46		mg/Kg	1	9/28/2022 9:12:56 PM	70411
Surr: DNOP	112	21-129		%Rec	1	9/28/2022 9:12:56 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2022 5:47:25 PM	70399
Surr: BFB	90.9	37.7-212		%Rec	1	9/27/2022 5:47:25 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 5:47:25 PM	70399
Toluene	ND	0.048		mg/Kg	1	9/27/2022 5:47:25 PM	70399
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2022 5:47:25 PM	70399
Xylenes, Total	ND	0.096		mg/Kg	1	9/27/2022 5:47:25 PM	70399
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	9/27/2022 5:47:25 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: F 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 10:37:00 AM

Lab ID: 2209C79-005

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	690	60		mg/Kg	20	9/28/2022 5:37:45 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 9:34:26 PM	70411
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/28/2022 9:34:26 PM	70411
Surr: DNOP	81.4	21-129		%Rec	1	9/28/2022 9:34:26 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 6:10:48 PM	70399
Surr: BFB	92.0	37.7-212		%Rec	1	9/27/2022 6:10:48 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 6:10:48 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 6:10:48 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 6:10:48 PM	70399
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2022 6:10:48 PM	70399
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	9/27/2022 6:10:48 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: H 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 10:52:00 AM

Lab ID: 2209C79-006

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	2200	150		mg/Kg	50	9/29/2022 4:13:37 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 9:45:19 PM	70411
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/28/2022 9:45:19 PM	70411
Surr: DNOP	85.1	21-129		%Rec	1	9/28/2022 9:45:19 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 6:34:09 PM	70399
Surr: BFB	93.2	37.7-212		%Rec	1	9/27/2022 6:34:09 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 6:34:09 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 6:34:09 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 6:34:09 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 6:34:09 PM	70399
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	9/27/2022 6:34:09 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: I 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 11:06:00 AM

Lab ID: 2209C79-007

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	9500	300		mg/Kg	100	9/29/2022 4:50:49 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 10:10:03 AM	70431
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 10:10:03 AM	70431
Surr: DNOP	80.0	21-129		%Rec	1	9/30/2022 10:10:03 AM	70431
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 6:57:34 PM	70399
Surr: BFB	93.0	37.7-212		%Rec	1	9/27/2022 6:57:34 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 6:57:34 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 6:57:34 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 6:57:34 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 6:57:34 PM	70399
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	9/27/2022 6:57:34 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: C 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 11:20:00 AM

Lab ID: 2209C79-008

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	8100	300		mg/Kg	100	9/29/2022 5:03:13 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/1/2022 3:39:53 AM	70431
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/1/2022 3:39:53 AM	70431
Surr: DNOP	85.4	21-129		%Rec	1	10/1/2022 3:39:53 AM	70431
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/27/2022 7:21:00 PM	70399
Surr: BFB	92.6	37.7-212		%Rec	1	9/27/2022 7:21:00 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	9/27/2022 7:21:00 PM	70399
Toluene	ND	0.046		mg/Kg	1	9/27/2022 7:21:00 PM	70399
Ethylbenzene	ND	0.046		mg/Kg	1	9/27/2022 7:21:00 PM	70399
Xylenes, Total	ND	0.093		mg/Kg	1	9/27/2022 7:21:00 PM	70399
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	9/27/2022 7:21:00 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C79
07-Oct-22

Client: R.T. Hicks Consultants, LTD

Project: Fed 33 Comm

Sample ID: MB-70457	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 70457	RunNo: 91361
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272148 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-70457	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 70457	RunNo: 91361
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272149 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15	1.5 15.00 0 97.7 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2209C79

07-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** Fed 33 Comm

Sample ID: LCS-70411	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 70411			RunNo: 91371						
Prep Date: 9/26/2022	Analysis Date: 9/28/2022			SeqNo: 3272003			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	82.3	64.4	127			
Surr: DNOP	4.2		5.000		84.7	21	129			

Sample ID: MB-70411	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 70411			RunNo: 91371						
Prep Date: 9/26/2022	Analysis Date: 9/28/2022			SeqNo: 3272004			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.7		10.00		76.9	21	129			

Sample ID: 2209C79-007AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: I 0-4'	Batch ID: 70431			RunNo: 91439						
Prep Date: 9/27/2022	Analysis Date: 9/30/2022			SeqNo: 3274373			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	28	14	46.38	0	61.1	36.1	154			
Surr: DNOP	3.2		4.638		68.7	21	129			

Sample ID: LCS-70431	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 70431			RunNo: 91439						
Prep Date: 9/27/2022	Analysis Date: 9/30/2022			SeqNo: 3274442			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	28	15	50.00	0	56.5	64.4	127			S
Surr: DNOP	3.0		5.000		60.8	21	129			

Sample ID: MB-70431	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 70431			RunNo: 91439						
Prep Date: 9/27/2022	Analysis Date: 9/30/2022			SeqNo: 3274445			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.3		10.00		73.3	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C79
07-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: Fed 33 Comm

Sample ID: 2209C79-007AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: I 0-4'		Batch ID: 70431		RunNo: 91439						
Prep Date: 9/27/2022		Analysis Date: 9/30/2022		SeqNo: 3276263		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	29	15	48.40	0	59.3	36.1	154	1.24	33.9	
Surr: DNOP	3.2		4.840		66.7	21	129	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 Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C79

07-Oct-22

Client: R.T. Hicks Consultants, LTD

Project: Fed 33 Comm

Sample ID: LCS-70399	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 70399		RunNo: 91359							
Prep Date: 9/26/2022	Analysis Date: 9/27/2022		SeqNo: 3270523		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: mb-70399	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 70399		RunNo: 91359							
Prep Date: 9/26/2022	Analysis Date: 9/27/2022		SeqNo: 3270525		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	930		1000		92.6	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2209C79

07-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** Fed 33 Comm

Sample ID: lcs-70399	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270576		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: mb-70399	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270578		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

Sample Log-In Check List

Client Name: **R.T. Hicks Consultants, LTD**

Work Order Number: **2209C79**

RcptNo: 1

Received By: **Juan Rojas**

9/23/2022 8:40:00 AM

Juan Rojas

Completed By: **Cheyenne Cason**

9/23/2022 9:40:59 AM

Cheyenne Cason

Reviewed By:

KPA 9.23.22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *TMC 9/23/22*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present			



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

October 07, 2022

David Hamilton

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX (505) 266-0745

RE: RWO Fed 33

OrderNo.: 2209C81

Dear David Hamilton:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/23/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: A 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 9:50:00 AM

Lab ID: 2209C81-001

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	15000	600		mg/Kg	200	9/30/2022 9:11:24 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	15	14		mg/Kg	1	10/1/2022 4:01:15 AM	70431
Motor Oil Range Organics (MRO)	79	47		mg/Kg	1	10/1/2022 4:01:15 AM	70431
Surr: DNOP	74.3	21-129		%Rec	1	10/1/2022 4:01:15 AM	70431
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/27/2022 7:44:29 PM	70399
Surr: BFB	91.6	37.7-212		%Rec	1	9/27/2022 7:44:29 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 7:44:29 PM	70399
Toluene	ND	0.047		mg/Kg	1	9/27/2022 7:44:29 PM	70399
Ethylbenzene	ND	0.047		mg/Kg	1	9/27/2022 7:44:29 PM	70399
Xylenes, Total	ND	0.094		mg/Kg	1	9/27/2022 7:44:29 PM	70399
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	9/27/2022 7:44:29 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: NS-2 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 9:56:00 AM

Lab ID: 2209C81-002

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	11000	600		mg/Kg	200	9/30/2022 9:23:45 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 12:44:38 PM	70431
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 12:44:38 PM	70431
Surr: DNOP	81.0	21-129		%Rec	1	9/30/2022 12:44:38 PM	70431
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 8:08:02 PM	70399
Surr: BFB	93.5	37.7-212		%Rec	1	9/27/2022 8:08:02 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 8:08:02 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 8:08:02 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 8:08:02 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 8:08:02 PM	70399
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	9/27/2022 8:08:02 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: E 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 10:20:00 AM

Lab ID: 2209C81-003

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1300	60		mg/Kg	20	9/29/2022 10:13:50 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/1/2022 4:22:47 AM	70431
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/1/2022 4:22:47 AM	70431
Surr: DNOP	85.4	21-129		%Rec	1	10/1/2022 4:22:47 AM	70431
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2022 8:31:21 PM	70399
Surr: BFB	93.3	37.7-212		%Rec	1	9/27/2022 8:31:21 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 8:31:21 PM	70399
Toluene	ND	0.048		mg/Kg	1	9/27/2022 8:31:21 PM	70399
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2022 8:31:21 PM	70399
Xylenes, Total	ND	0.095		mg/Kg	1	9/27/2022 8:31:21 PM	70399
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	9/27/2022 8:31:21 PM	70399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: NS-1 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 10:30:00 AM

Lab ID: 2209C81-004

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	110	60		mg/Kg	20	9/29/2022 10:26:14 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 9:10:22 AM	70419
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2022 9:10:22 AM	70419
Surr: DNOP	101	21-129		%Rec	1	9/28/2022 9:10:22 AM	70419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 10:52:01 PM	70403
Surr: BFB	93.2	37.7-212		%Rec	1	9/27/2022 10:52:01 PM	70403
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 10:52:01 PM	70403
Toluene	ND	0.049		mg/Kg	1	9/27/2022 10:52:01 PM	70403
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 10:52:01 PM	70403
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 10:52:01 PM	70403
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	9/27/2022 10:52:01 PM	70403

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: F 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 10:39:00 AM

Lab ID: 2209C81-005

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1600	60		mg/Kg	20	9/29/2022 10:38:39 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 9:20:59 AM	70419
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/28/2022 9:20:59 AM	70419
Surr: DNOP	78.7	21-129		%Rec	1	9/28/2022 9:20:59 AM	70419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 12:02:20 AM	70403
Surr: BFB	92.9	37.7-212		%Rec	1	9/28/2022 12:02:20 AM	70403
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/28/2022 12:02:20 AM	70403
Toluene	ND	0.049		mg/Kg	1	9/28/2022 12:02:20 AM	70403
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2022 12:02:20 AM	70403
Xylenes, Total	ND	0.097		mg/Kg	1	9/28/2022 12:02:20 AM	70403
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	9/28/2022 12:02:20 AM	70403

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: H 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 10:52:00 AM

Lab ID: 2209C81-006

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8500	300		mg/Kg	100	9/30/2022 9:36:06 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 9:31:39 AM	70419
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2022 9:31:39 AM	70419
Surr: DNOP	75.8	21-129		%Rec	1	9/28/2022 9:31:39 AM	70419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/28/2022 1:12:24 AM	70403
Surr: BFB	92.2	37.7-212		%Rec	1	9/28/2022 1:12:24 AM	70403
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	9/28/2022 1:12:24 AM	70403
Toluene	ND	0.047		mg/Kg	1	9/28/2022 1:12:24 AM	70403
Ethylbenzene	ND	0.047		mg/Kg	1	9/28/2022 1:12:24 AM	70403
Xylenes, Total	ND	0.093		mg/Kg	1	9/28/2022 1:12:24 AM	70403
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	9/28/2022 1:12:24 AM	70403

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: I 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 11:08:00 AM

Lab ID: 2209C81-007

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8300	600		mg/Kg	200	9/30/2022 9:48:27 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 1:56:18 PM	70419
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/28/2022 1:56:18 PM	70419
Surr: DNOP	82.2	21-129		%Rec	1	9/28/2022 1:56:18 PM	70419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/28/2022 1:35:48 AM	70403
Surr: BFB	91.4	37.7-212		%Rec	1	9/28/2022 1:35:48 AM	70403
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/28/2022 1:35:48 AM	70403
Toluene	ND	0.047		mg/Kg	1	9/28/2022 1:35:48 AM	70403
Ethylbenzene	ND	0.047		mg/Kg	1	9/28/2022 1:35:48 AM	70403
Xylenes, Total	ND	0.095		mg/Kg	1	9/28/2022 1:35:48 AM	70403
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	9/28/2022 1:35:48 AM	70403

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 7 of 15

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: C 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 11:22:00 AM

Lab ID: 2209C81-008

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3700	150		mg/Kg	50	9/30/2022 10:00:48 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 2:28:14 PM	70419
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2022 2:28:14 PM	70419
Surr: DNOP	86.1	21-129		%Rec	1	9/28/2022 2:28:14 PM	70419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2022 1:59:13 AM	70403
Surr: BFB	92.6	37.7-212		%Rec	1	9/28/2022 1:59:13 AM	70403
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/28/2022 1:59:13 AM	70403
Toluene	ND	0.050		mg/Kg	1	9/28/2022 1:59:13 AM	70403
Ethylbenzene	ND	0.050		mg/Kg	1	9/28/2022 1:59:13 AM	70403
Xylenes, Total	ND	0.10		mg/Kg	1	9/28/2022 1:59:13 AM	70403
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	9/28/2022 1:59:13 AM	70403

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 8 of 15

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C81

07-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: RWO Fed 33

Sample ID: MB-70481		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 70481		RunNo: 91433						
Prep Date: 9/29/2022		Analysis Date: 9/29/2022		SeqNo: 3273912		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70481		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 70481		RunNo: 91433						
Prep Date: 9/29/2022		Analysis Date: 9/29/2022		SeqNo: 3273913		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 15

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

WO#: 2209C81

07-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** RWO Fed 33

Sample ID: 2209C81-007AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: I 4.25-4.5'	Batch ID: 70419	RunNo: 91371								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3271109 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	14	48.12	0	67.7	36.1	154			
Surr: DNOP	3.5		4.812		72.2	21	129			

Sample ID: 2209C81-007AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: I 4.25-4.5'	Batch ID: 70419	RunNo: 91371								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3271110 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	32	14	47.21	0	67.9	36.1	154	1.51	33.9	
Surr: DNOP	3.4		4.721		71.0	21	129	0	0	

Sample ID: LCS-70419	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70419	RunNo: 91371								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3271145 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	15	50.00	0	66.2	64.4	127			
Surr: DNOP	3.0		5.000		60.3	21	129			

Sample ID: MB-70419	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70419	RunNo: 91371								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3271153 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.3		10.00		72.5	21	129			

Sample ID: LCS-70431	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70431	RunNo: 91439								
Prep Date: 9/27/2022	Analysis Date: 9/30/2022	SeqNo: 3274442 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	28	15	50.00	0	56.5	64.4	127			S
Surr: DNOP	3.0		5.000		60.8	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C81
07-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: RWO Fed 33

Sample ID: MB-70431	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70431	RunNo: 91439								
Prep Date: 9/27/2022	Analysis Date: 9/30/2022	SeqNo: 3274445	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.3		10.00		73.3	21	129			

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 Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2209C81

07-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** RWO Fed 33

Sample ID: 2209c81-004ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: NS-1 4.25-4.5'	Batch ID: 70403			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270502		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.63	0	105	70	130			
Surr: BFB	1900		985.2		197	37.7	212			

Sample ID: 2209c81-004amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: NS-1 4.25-4.5'	Batch ID: 70403			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270503		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.51	0	107	70	130	2.11	20	
Surr: BFB	2000		980.4		200	37.7	212	0	0	

Sample ID: LCS-70399	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270523		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: LCS-70403	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 70403			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270524		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.6	72.3	137			
Surr: BFB	1900		1000		194	37.7	212			

Sample ID: mb-70399	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270525		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	930		1000		92.6	37.7	212			

Sample ID: mb-70403	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 70403			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270526		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C81
07-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: RWO Fed 33

Sample ID: mb-70403	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 70403	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270526	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	930		1000		92.9	37.7	212			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2209C81

07-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** RWO Fed 33

Sample ID: 2209c81-005ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: F 4.25-4.5'	Batch ID: 70403	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3270556 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9728	0	88.9	68.8	120			
Toluene	0.91	0.049	0.9728	0	93.7	73.6	124			
Ethylbenzene	0.93	0.049	0.9728	0	95.2	72.7	129			
Xylenes, Total	2.8	0.097	2.918	0.01808	94.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.96		0.9728		98.3	70	130			

Sample ID: 2209c81-005amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: F 4.25-4.5'	Batch ID: 70403	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3270557 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9737	0	96.6	68.8	120	8.41	20	
Toluene	0.97	0.049	0.9737	0	99.2	73.6	124	5.80	20	
Ethylbenzene	0.98	0.049	0.9737	0	101	72.7	129	5.78	20	
Xylenes, Total	3.0	0.097	2.921	0.01808	101	75.7	126	6.07	20	
Surr: 4-Bromofluorobenzene	1.0		0.9737		103	70	130	0	0	

Sample ID: lcs-70399	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 70399	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270576 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: lcs-70403	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 70403	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270577 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2209C81

07-Oct-22

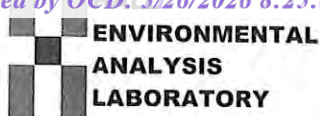
Client: R.T. Hicks Consultants, LTD**Project:** RWO Fed 33

Sample ID: mb-70399	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270578		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Sample ID: mb-70403	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 70403			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270579		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

Sample Log-In Check List

Client Name: R.T. Hicks Consultants,
LTD

Work Order Number: 2209C81

RcptNo: 1

Received By: Juan Rojas

9/23/2022 8:40:00 AM

Juan Rojas

Completed By: Cheyenne Cason

9/23/2022 9:50:29 AM

Cason

Reviewed By: KPC

9-23-22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *me* 9/23/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: _____

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present			

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

QUESTIONS

Action 587566

QUESTIONS

Operator: RAY WESTALL OPERATING, INC. P.O. Box 4 Loco Hills, NM 88255	OGRID: 119305
	Action Number: 587566
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2100441738
Incident Name	NAPP2100441738 FEDERAL 33 COM # 1 @ 30-015-21259
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-21259] FEDERAL 33 COM #001

Location of Release Source

Please answer all the questions in this group.

Site Name	FEDERAL 33 COM # 1
Date Release Discovered	12/31/2020
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Cause: Equipment Failure Valve Condensate Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	VALVE ON WELLHEAD LEAKED CAUSING SPRAY ACROSS LOCATION, STAINING OIL.

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QUESTIONS, Page 2

Action 587566

QUESTIONS (continued)

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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	WE ARE GOING TO SPRAY MICRO BLAZE ON LOCATION TO REMOVE STAINING

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Consultant Email: aparker@vertexresource.com Date: 05/21/2026
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QUESTIONS, Page 3

Action 587566

QUESTIONS (continued)

Operator: RAY WESTALL OPERATING, INC. P.O. Box 4 Loco Hills, NM 88255	OGRID: 119305
	Action Number: 587566
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	25000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	95
GRO+DRO (EPA SW-846 Method 8015M)	94
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	05/29/2026
On what date will (or did) the final sampling or liner inspection occur	06/05/2026
On what date will (or was) the remediation complete(d)	06/05/2026
What is the estimated surface area (in square feet) that will be reclaimed	4562
What is the estimated volume (in cubic yards) that will be reclaimed	676
What is the estimated surface area (in square feet) that will be remediated	4562
What is the estimated volume (in cubic yards) that will be remediated	676
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 587566

QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Consultant Email: aparker@vertexresource.com Date: 05/21/2026
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 587566

QUESTIONS (continued)

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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 587566

QUESTIONS (continued)

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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 587566

CONDITIONS

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	Action Number: 587566
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	The remediation plan is conditionally approved along with the alternative sampling plan except the sampling frequency increase from 200 to 400 square feet per one (1) 5-point composite is accepted for the excavation floor sampling. Sidewall confirmation sampling will remain at 200 square feet per one (1) 5-point composite. Ray Westall Operating has 90-days (October 13, 2026) to submit to OCD its appropriate or final remediation closure report.	7/14/2026