

**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 192716

**QUESTIONS**

|  |  |
|--|--|
| Operator:<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 | OGRID:<br>372224                                       |
|  | Action Number:<br>192716                               |
|  | Action Type:<br>[NOTIFY] Notification Of Release (NOR) |

**QUESTIONS**

|   |                                   |
|---|-----------------------------------|
| <b>Location of Release Source</b>                     |                                   |
| <i>Please answer all the questions in this group.</i> |                                   |
| Site Name   | Pinestraw CTB 20230226-1400-water |
| Date Release Discovered                               | 02/26/2023                        |
| Surface Owner   | Private                           |

|  |             |
|--|-------------|
| <b>Incident Details</b>  |             |
| <i>Please answer all 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          |

|   |  |
|---|--|
| <b>Nature and Volume of Release</b>   |  |
| <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   | Cause: Power Failure   Production Tank   Crude Oil   Released: 9 BBL   Recovered: 3 BBL   Lost: 6 BBL. |
| Produced Water Released (bbls) Details  | Not answered.  |
| Is the concentration of dissolved chloride in the produced water >10,000 mg/l   | Yes  |
| Condensate Released (bbls) Details  | Not answered.  |
| Natural Gas Vented (Mcf) Details  | Not answered.  |
| Natural Gas Flared (Mcf) Details  | Not answered.  |
| Other Released Details  | Not answered.  |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)  | Not answered.  |

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**QUESTIONS (continued)**

|  |  |
|--|--|
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|  | Action Number:<br>192716                               |
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**QUESTIONS**

| <b>Nature and Volume of Release (continued)</b>  |  |
|--|--|
| Is this a gas only submission (i.e. only significant Mcf values reported)  | <b>No, according to supplied volumes this does not appear to be a "gas only" report.</b> |
| Was this a major release as defined by 19.15.29.7(A) NMAC  | <b>No, minor release.</b>  |
| 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   | <i>Not answered.</i>   |
| If YES, was immediate notice given to the OCD, to whom   | <i>Not answered.</i>   |
| If YES, was immediate notice given to the OCD, when  | <i>Not answered.</i>   |
| If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)  | <i>Not answered.</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> |  |

| <b>Initial Response</b>  |                      |
|--|----------------------|
| <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   | <b>True</b>          |
| The impacted area has been secured to protect human health and the environment   | <b>True</b>          |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices   | <b>True</b>          |
| All free liquids and recoverable materials have been removed and managed appropriately   | <b>True</b>          |
| If all the actions described above have not been undertaken, explain why   | <i>Not answered.</i> |
| <i>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.</i> |                      |

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**Energy, Minerals and Natural Resources**  
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ACKNOWLEDGMENTS

Action 192716

**ACKNOWLEDGMENTS**

|  |  |
|--|--|
| Operator:<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 | OGRID:<br>372224                                       |
|  | Action Number:<br>192716                               |
|  | Action Type:<br>[NOTIFY] Notification Of Release (NOR) |

**ACKNOWLEDGMENTS**

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.  |
| <input checked="" type="checkbox"/> | 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.  |
| <input checked="" type="checkbox"/> | 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.   |
| <input checked="" type="checkbox"/> | 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. |
| <input checked="" type="checkbox"/> | 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.  |
| <input checked="" type="checkbox"/> | 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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CONDITIONS

Action 192716

**CONDITIONS**

|  |  |
|--|--|
| Operator:<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 | OGRID:<br>372224                                       |
|  | Action Number:<br>192716                               |
|  | Action Type:<br>[NOTIFY] Notification Of Release (NOR) |

**CONDITIONS**

| Created By  | Condition   | Condition Date |
|-------------|---|----------------|
| aparker1969 | When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141. | 3/2/2023       |

| Spill Dimensions to Volume of Release |  |                 |                |
|---------------------------------------|--|-----------------|----------------|
| <b>Input</b>                          | <b>volume of affected soil</b>                         | <b>[feet^3]</b> | <b>1415.18</b> |
| <b>Input</b>                          | Porosity: typically is .35 to .40 for most soils       | [-]             | 0.35           |
| <b>Input</b>                          | Proportion of porosity filled with release fluid [0,1] | [-]             | 0.10           |
|                                       |  |                 |                |
| <b>Output</b>                         | volume of fluid  | [feet^3]        | <b>49.5</b>    |
|                                       |  | [gal]           | <b>370.5</b>   |
|                                       |  | Barrels         | 8.8            |

From GIS

Sq. Ft 2358.64

Depth (ft) 0.6

Cu. Ft 1415.184

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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    | nAPP2306160789 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Release Notification

### Responsible Party

|   |                                   |
|---|-----------------------------------|
| Responsible Party: Ameredev Operating, LLC                                  | OGRID: 372224                     |
| Contact Name: Shane M <sup>c</sup> Neely                                    | Contact Telephone: (737) 300-4700 |
| Contact email: smcneely@ameredev.com  | Incident # nAPP2306160789         |
| Contact mailing address: 2901 Via Fortuna, Suite 600<br>Austin, Texas 78746 |                                   |

### Location of Release Source

Latitude 32.1649953 \_\_\_\_\_ Longitude -103.2877953 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

|   |                                |
|---|--------------------------------|
| Site Name Pinestraw CTB 20230226-1400-water | Site Type Central Tank Battery |
| Date Release Discovered 02/26/2023          | API# (if applicable)           |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| C           | 5       | 25S      | 36E   | Lea    |

Surface Owner:  State  Federal  Tribal  Private (Name: *Intrepid Potash* \_\_\_\_\_)

### Nature and Volume of Release

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

|   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 9   | Volume Recovered (bbls) 3                                |
| <input type="checkbox"/> Produced Water       | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
|   | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate           | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas          | Volume Released (Mcf)  | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> Other (describe)     | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                  |

Cause of Release Remote monitoring of water tank level communications offline. Production tank overflowed into containment. Breach in containment liner and crude oil escaped from containment.

State of New Mexico  
Oil Conservation Division

|                |                |
|----------------|----------------|
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|   |  |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

|  |
|--|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |
| If all the actions described above have <u>not</u> been undertaken, explain why:   |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |
| Printed Name: <u>Andrew Parker</u> Title: <u>Env. Scientist</u><br>Signature: <u></u> Date: <u>03/02/2023</u><br>email: <u>aparker@amerev.com</u> Telephone: <u>970-570-9535</u>  |
| <b><u>OCD Only</u></b><br>Received by: <u>Jocelyn Harimon</u> Date: <u>03/03/2023</u>  |

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CONDITIONS  
 Action 192723

**CONDITIONS**

|  |   |
|--|---|
| Operator:<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 | OGRID:<br>372224  |
|  | Action Number:<br>192723                                  |
|  | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| jharimon   | None      | 3/3/2023       |

|                |                |
|----------------|----------------|
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| Application ID |                |

## Site Assessment/Characterization

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

|   |   |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? <b><u>Plate 2</u></b>   | <u>  &gt;100  </u> (ft bgs)   |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? <b><u>Plate 4</u></b>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? <b><u>Plate 4</u></b>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? <b><u>Plate 5</u></b>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? <b><u>Plate 3</u></b> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? <b><u>Plate 3</u></b>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? <b><u>Plate 3</u></b>   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? <b><u>Plate 6</u></b>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? <b><u>Plate 7</u></b>   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? <b><u>Plate 8</u></b>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? <b><u>Plate 9</u></b>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

|   |
|---|
| <p><b><u>Characterization Report Checklist:</u> Each of the following items must be included in the report.</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li><input checked="" type="checkbox"/> Field data</li> <li><input checked="" type="checkbox"/> Data table of soil contaminant concentration data</li> <li><input checked="" type="checkbox"/> Depth to water determination</li> <li><input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li><input checked="" type="checkbox"/> Boring or excavation logs</li> <li><input checked="" type="checkbox"/> Photographs including date and GIS information</li> <li><input checked="" type="checkbox"/> Topographic/Aerial maps</li> <li><input checked="" type="checkbox"/> Laboratory data including chain of custody</li> </ul> |
|---|

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

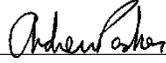
State of New Mexico  
Oil Conservation Division

|                |                |
|----------------|----------------|
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Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: April 10, 2023

email: aparker@amerede.com

Telephone: 970-570-9535

**OCD Only**

Received by: Jocelyn Harimon

Date: 04/10/2023

|                |                |
|----------------|----------------|
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## Remediation Plan

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

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

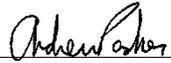
**Deferral Requests Only:** Each of the following items must be confirmed as part of any request for deferral of remediation.

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

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

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: April 10, 2023

email: aparker@ameredev.com

Telephone: 970-570-9535

**OCD Only**

Received by: Jocelyn Harimon Date: 04/10/2023

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

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

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

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2306160789 |
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## Closure

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

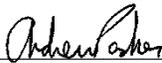
**Closure Report Attachment Checklist: Each of the following items must be included in the closure report.**

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Andrew Parker

Title: Env. Scientist

Signature: 

Date: April 10, 2023

email: aparker@amerdev.com

Telephone: 970-570-9535

**OCD Only**

Received by: Jocelyn Harimon

Date: 04/10/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: 

Date: 05/12/2023

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



Ameredeve II, LLC

2901 Via Fortuna Suite 600 • Austin, Texas 78746 • Phone (737) 300-4700

April 10, 2023

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

RE: Closure Report  
Incident ID: nAPP2306160789  
Pinestraw CTB  
AEP #: 20230226-1400-water

NMOCD:

Ameredeve Operating submits this Closure Report for the above referenced incident and respectfully requests closure of the regulatory file. Included in this report are the site characterization data and description of remediation/restoration activities.

The release occurred on February 26, 2023. Remote monitoring of the tank level was offline resulting in an overflow at the production tank. High winds caused the fluid to disperse into the secondary containment and onto the production site. The calculated volume of released crude oil was 9 barrels with 3 barrels recovered.

The release is located on Fee surface. The release did not impact surface or groundwater. Figure 1 shows the extent of the release on the active production site.



Figure 1: View of release extent facing southeast from the northwest.  
Date Taken: 2023-02-27 13:27:28 GPS: 32.1653088, -103.2877759

Incident ID: nAPP2306160789

Pinestraw CTB

AEP #: 20230226-1400-water

## 1. Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to the C-141 characterization checklist for additional setback criteria and verification (Plates 2-9).

### 1.1. Site Map

Horizontal extent of the release was determined by visual observations. The release extent mapping utilized GPS technology with sub-meter accuracy.

Plate 1 shows the release extent relative to the Pinestraw CTB production facilities and nearby utilities. The source of the release is located at 32.1649953, -103.2877953 (Lat, Long; NAD83). The release extent covered an area of approximately 2359 sq. ft.

### 1.2. Depth to Ground Water

The nearest depth-to-water boring, dated 02/17/2023, relative to the release area is mapped on Plate 2. This borehole has been plugged. The Office of the State Engineer well log is attached in Appendix B:

- MISC-419 (CP-1949 POD 1) is located 0.44-miles west of release. Depth to water is greater than 102 ft below ground surface.

### 1.3. Wellhead Protection Area

Plate 3 shows that the release extent is:

- Not within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Not within ½-mile private and domestic water sources (wells and springs).
- Not within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Not within 1000 feet of any other freshwater well or spring.

### 1.4. Distance to Nearest Significant Water Course

Plate 4 shows that the release extent is:

- Within ½ mile of a significant water course.
- Not within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Not within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

The closest significant water course is an intermittent stream 0.3 miles to the west of the release extent.

04/10/2023

Released to Imaging: 5/12/2023 9:44:31 AM



Incident ID: nAPP2306160789

Pinestraw CTB

AEP #: 20230226-1400-water

### **1.5. Soil/Waste Characteristics**

The release occurred in an area where depth to water is greater than 100 ft below ground surface (bgs) and on an active production site used for oil and gas operations.

The release occurred in the Pyote loamy fine sands and Ratliff-Wink fine sandy loams.

The Pyote loamy fine sands complex soil complex has a slope of 0 – 3%. The USDA Natural Resources Conservation Service (NRCS) soil survey<sup>1</sup> describes the upper 5-feet of the Pyote loamy fine sand lithology as

- *A - 0 to 25 inches*: loamy fine sand
- *Bt - 25 to 60 inches*: fine sandy loam

The Ratliff-Wink fine sandy loams soil complex has a slope of 0-3%. The USDA Natural Resources Conservation Service (NRCS) soil survey describes the upper 5-feet of the Ratliff lithology as

- *A - 0 to 4 inches*: fine sandy loam
- *Bw - 4 to 22 inches*: clay loam
- *Bk - 22 to 60 inches*: clay loam
- 

And the lithology of the Wink soil complex as

- *A - 0 to 12 inches*: fine sandy loam
- *Bk - 12 to 23 inches*: sandy loam
- *Bck - 23 to 60 inches*: sandy loam

The lithology as described by the NRCS is consistent with professional observations during excavation activities within the area of interest.

## **2. Remediation & Restoration**

Ameredev began remedial actions on March 8, 2023 with the removal of the upper 1-foot of impacted material within the release extent to remove the mass load of impacted soil.

Approximately 108 cu. yds of impacted material was hauled off-site to an approved disposal facility.

Figures 2 and 3 show the excavation extent.

---

<sup>1</sup> <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

Incident ID: nAPP2306160789  
Pinestraw CTB  
AEP #: 20230226-1400-water



Figure 2: View of excavation facing south from northern portion of extent.  
Date Taken: 2023-03-10 14:01:09  
GPS: 32.1651980, -103.2878557



Figure 3: View of northern portion of active excavation facing northwest from southeast corner.  
Date Taken: 2023-03-10 14:03:31  
GPS: 32.1650545, -103.2877465

The release extent was divided into sample grids of not more than 200 sq ft. A soil sample was collected from each grid base and along excavation walls for laboratory analysis of constituents of concern as listed in Table 1 of 19.15.29. NMAC.

- Plate 10 shows the confirmation sample grid layout with associated square footage.
- Plate 11 shows the confirmation sample locations.
- Table A shows the coordinates of the confirmation sample points.

04/10/2023

Released to Imaging: 5/12/2023 9:44:31 AM

Incident ID: nAPP2306160789

Pinestraw CTB

AEP #: 20230226-1400-water

The results of analytical showed that the confirmation samples from walls and bases met Closure Criteria per Table 1 of 19.15.29 NMAC as defined below:

- For the release area on an active production site that is in use for oil and gas operations and where depth to water is > 100 ft:
  - Chloride < 20,000 mg/kg
  - TPH (GRO + DRO + MRO) < 2,500 mg/kg
  - TPH (GRO + DRO) < 1,000 mg/kg
  - BTEX < 50 mg/kg
  - Benzene < 10 mg/kg

Wall samples also provided lateral delineation of release extent, meeting the most stringent closure criteria.

- Chloride < 600 mg/kg
- TPH (GRO + DRO + MRO) < 100 mg/kg
- BTEX < 50 mg/kg
- Benzene < 10 mg/kg

Summary of analytical is presented in Table B. Laboratory Certificates of Analysis are presented in Appendix C.

The excavation extent was backfilled with clean caliche obtained from stockpiled soils remaining from the Peach Riser remediation (20220920-2300-water, nAPP2226544614). Backfill analytical data from the Peach Riser remediation is included in Appendix C. The release extent on the active production site was restored per 19.15.29.13.A-C NMAC

Figure 4 shows the restoration to an active production site.



Figure 4: View of restoration facing southeast.

Date Taken: 2023-03-13 15:06:09

GPS: 32.1651235, -103.2877630

04/10/2023

Released to Imaging: 5/12/2023 9:44:31 AM

Incident ID: nAPP2306160789

Pinestraw CTB

AEP #: 20230226-1400-water

Bugle Energy Services, LLC performed a liner inspection and repair for the entire Pinestraw CTB on March 22, 2023. Although the liner required repair, the liner maintained its integrity at the areas of interest (Figures 5 through 7). Bugle Energy Services' email correspondence is provided in Appendix D.



*Figure 5: View of liner integrity between the tank that overflowed and the northern containment wall; where the on-site release was adjacent too. No repairs were required in this area of interest. Photo is viewing west. Date Taken: 2023-04-05. GPS: 32.1649385, -103.2878828.*



*Figure 6: View of liner integrity between the tank that overflowed and the northern containment wall; at the area of interest. No repairs were required. Photo is viewing east. Date Taken: 2023-04-05. GPS: 32.1650055, -103.2878978.*

04/10/2023

Released to Imaging: 5/12/2023 9:44:31 AM

Incident ID: nAPP2306160789

Pinestraw CTB

AEP #: 20230226-1400-water



*Figure 7: View of liner integrity from the third tank south from the north containment wall; south of the area of interest. No repairs were required north of this point. Photo is viewing north. Date Taken: 2023-04-05. Corrected GPS: 32.164844, 103.2878042. Geotagged GPS: 32.1650055, -103.2878978.*

Final remediation, restoration, and reclamation shall take place in accordance with 19.15.29.13.A-D NMAC when the production site is no longer in-use for oil and gas operations.

Please contact me with any questions.

Sincerely,  
Ameredev II, LLC

Andrew Parker  
Env. Scientist

04/10/2023

Released to Imaging: 5/12/2023 9:44:31 AM

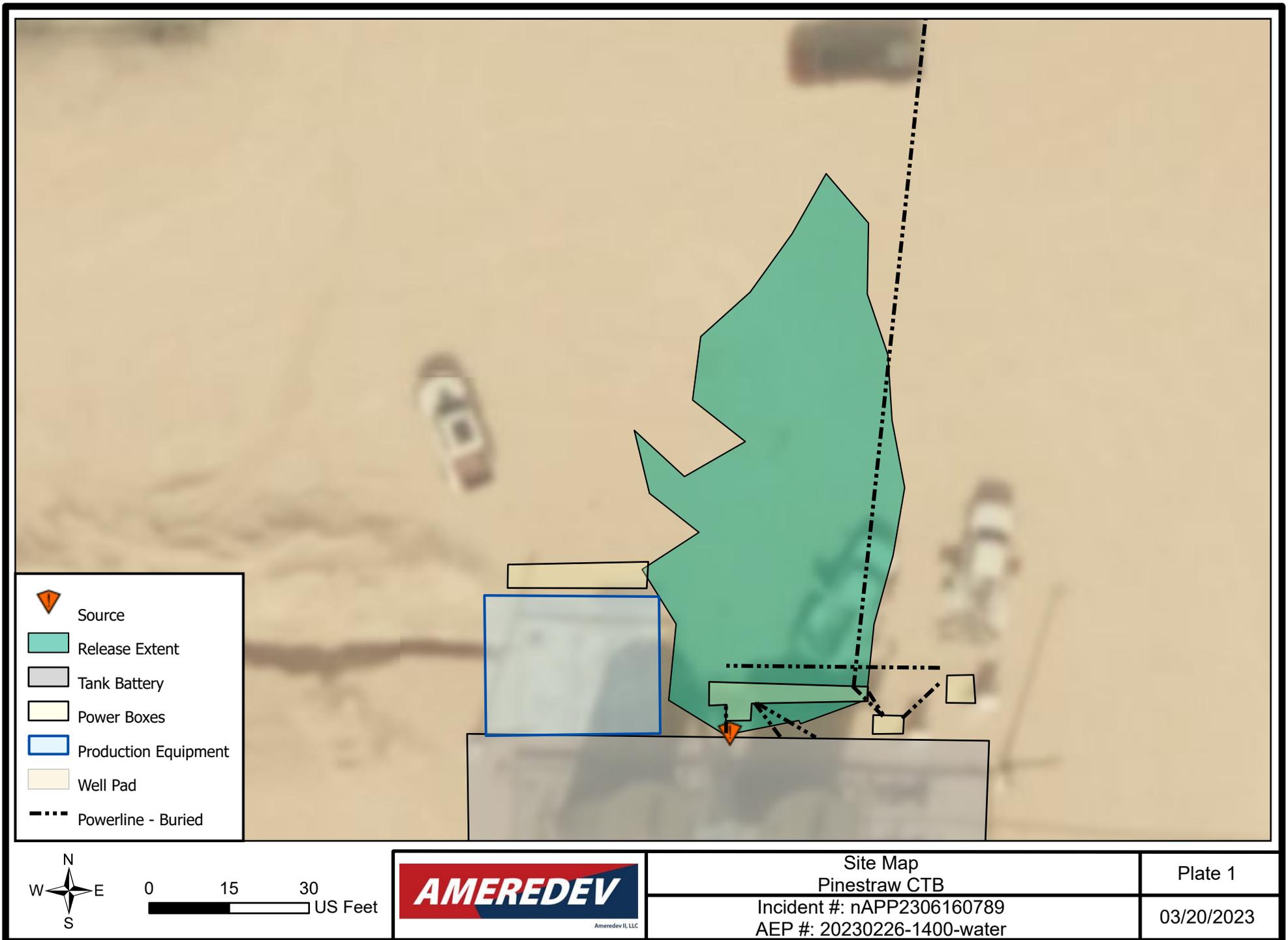


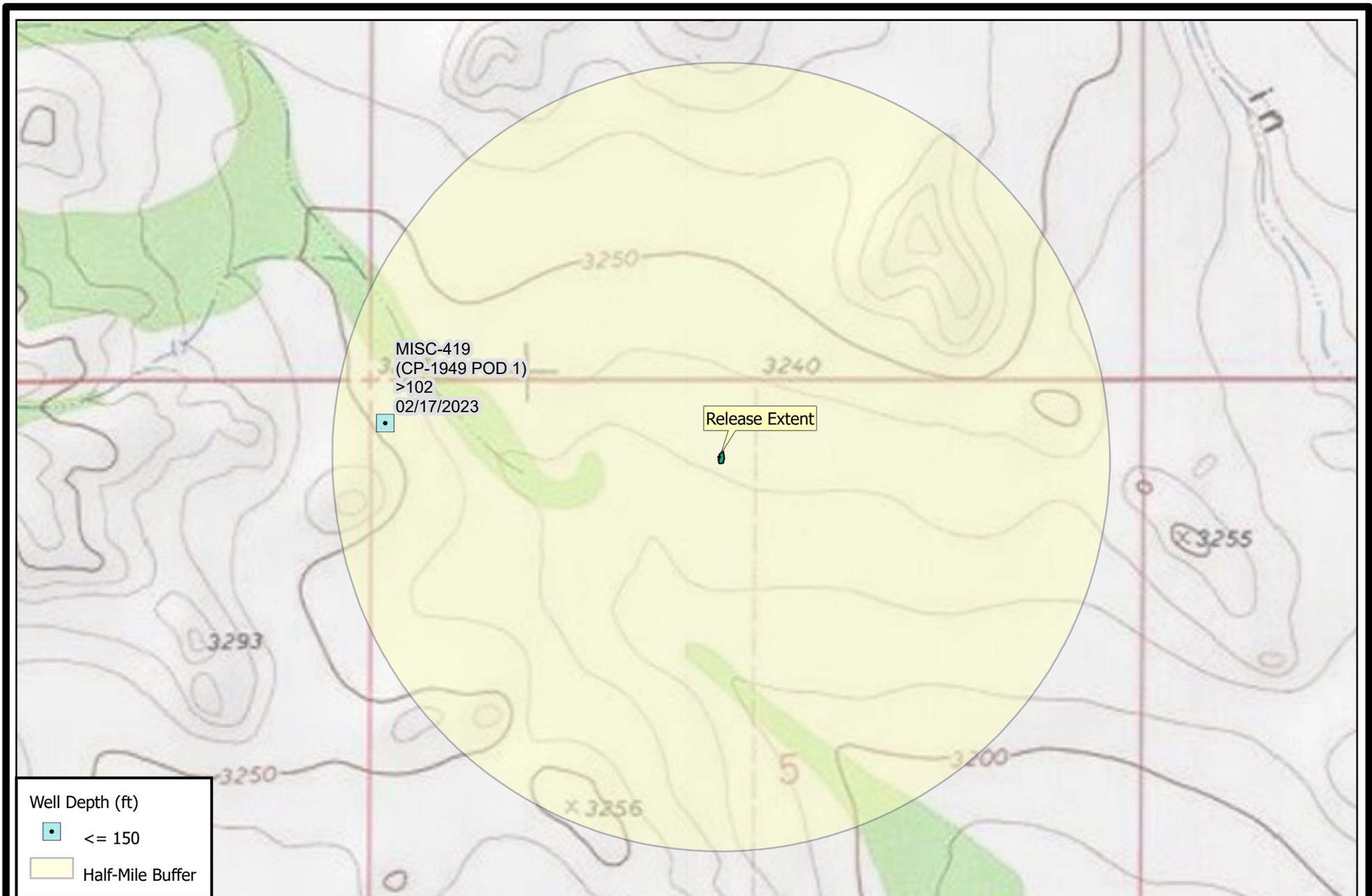
Ameredev II, LLC

# Plates



Ameredev II, LLC



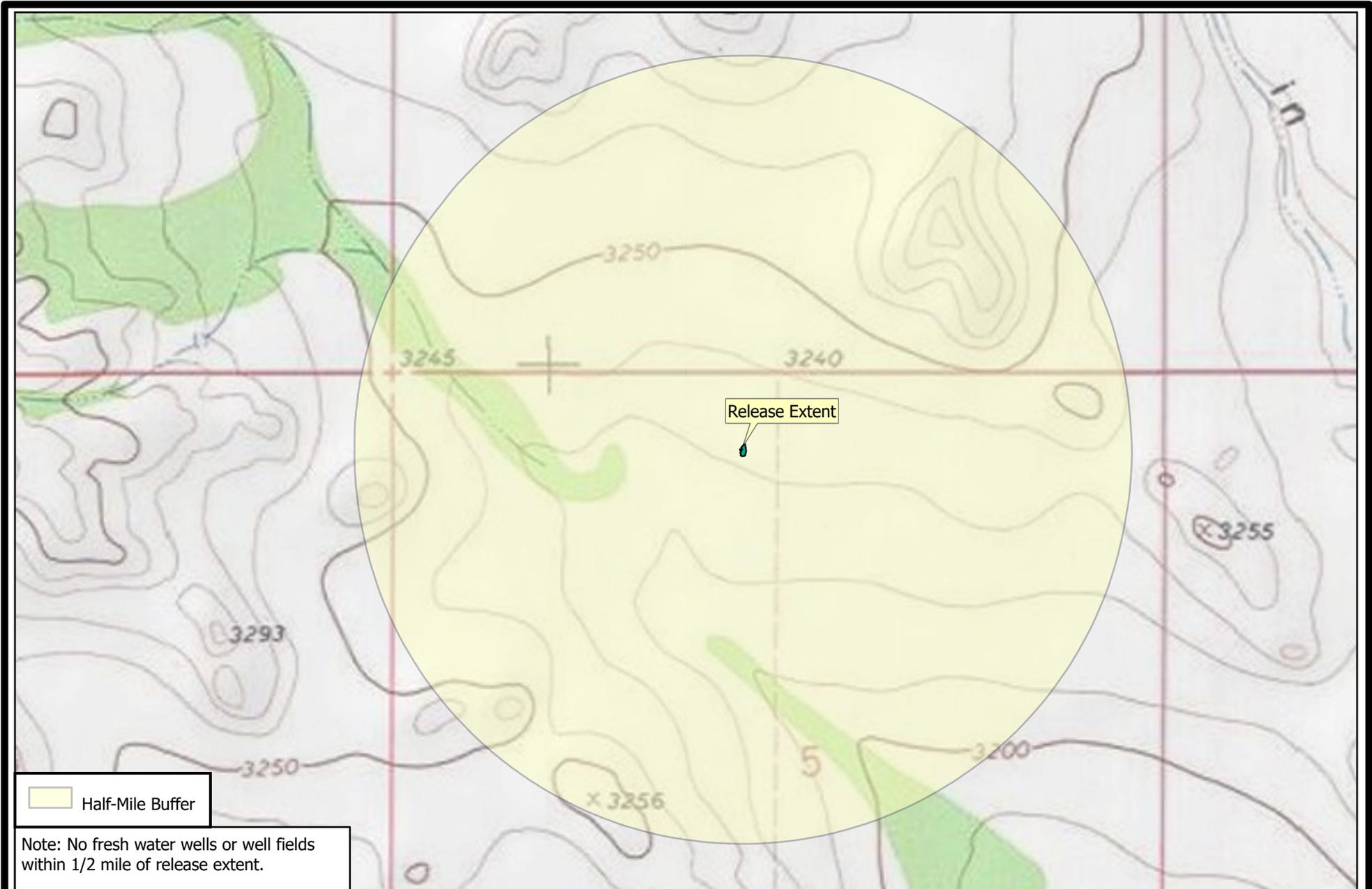


Well Depth (ft)

- ≤ 150
- Half-Mile Buffer



|  |          |
|--|----------|
| Depth to Water<br>Pinestraw CTB                          | Plate 2  |
| Incident #: nAPP2306160789<br>AEP #: 20230226-1400-water | 3/8/2023 |



0 500 1,000  
US Feet

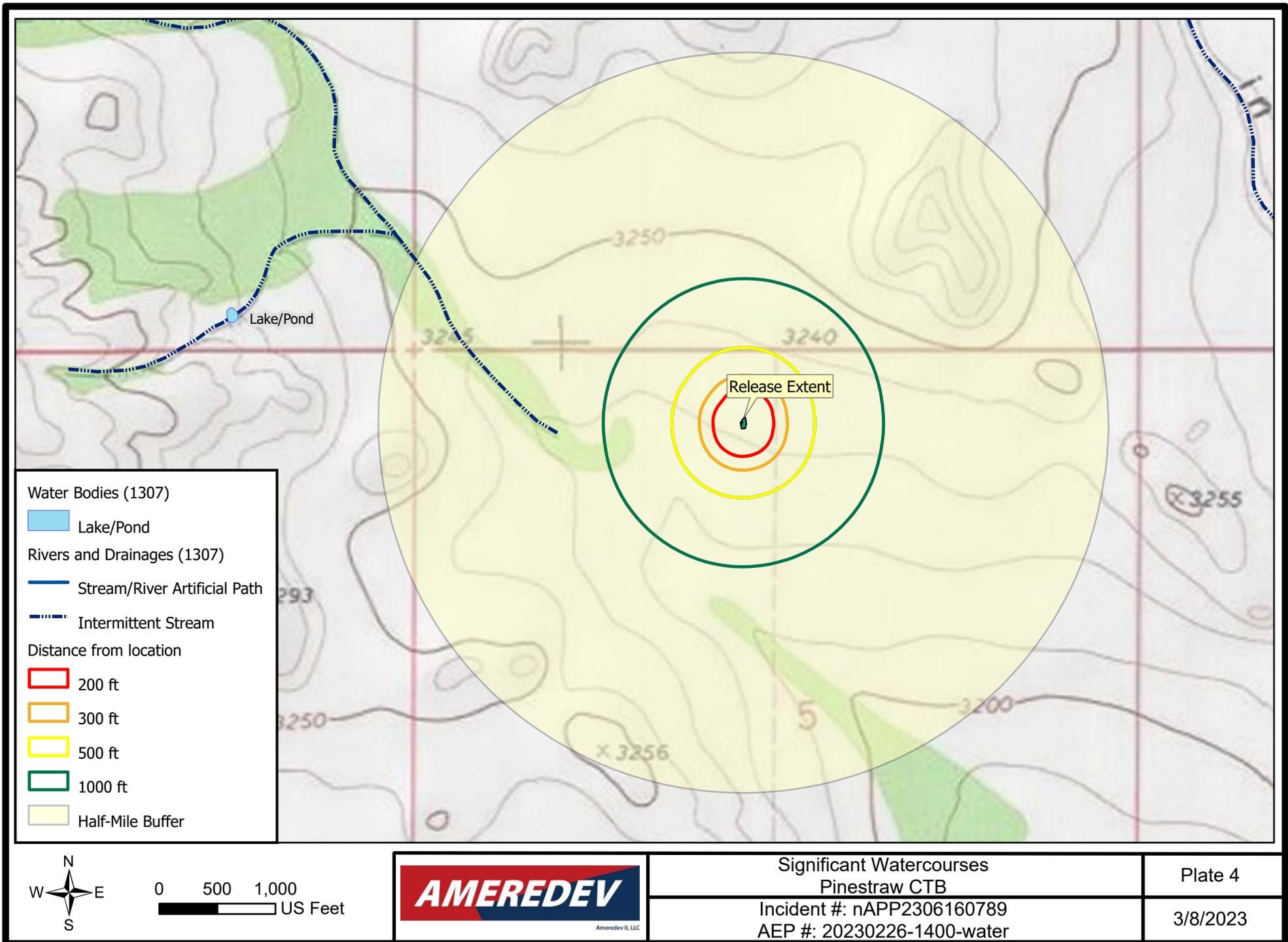


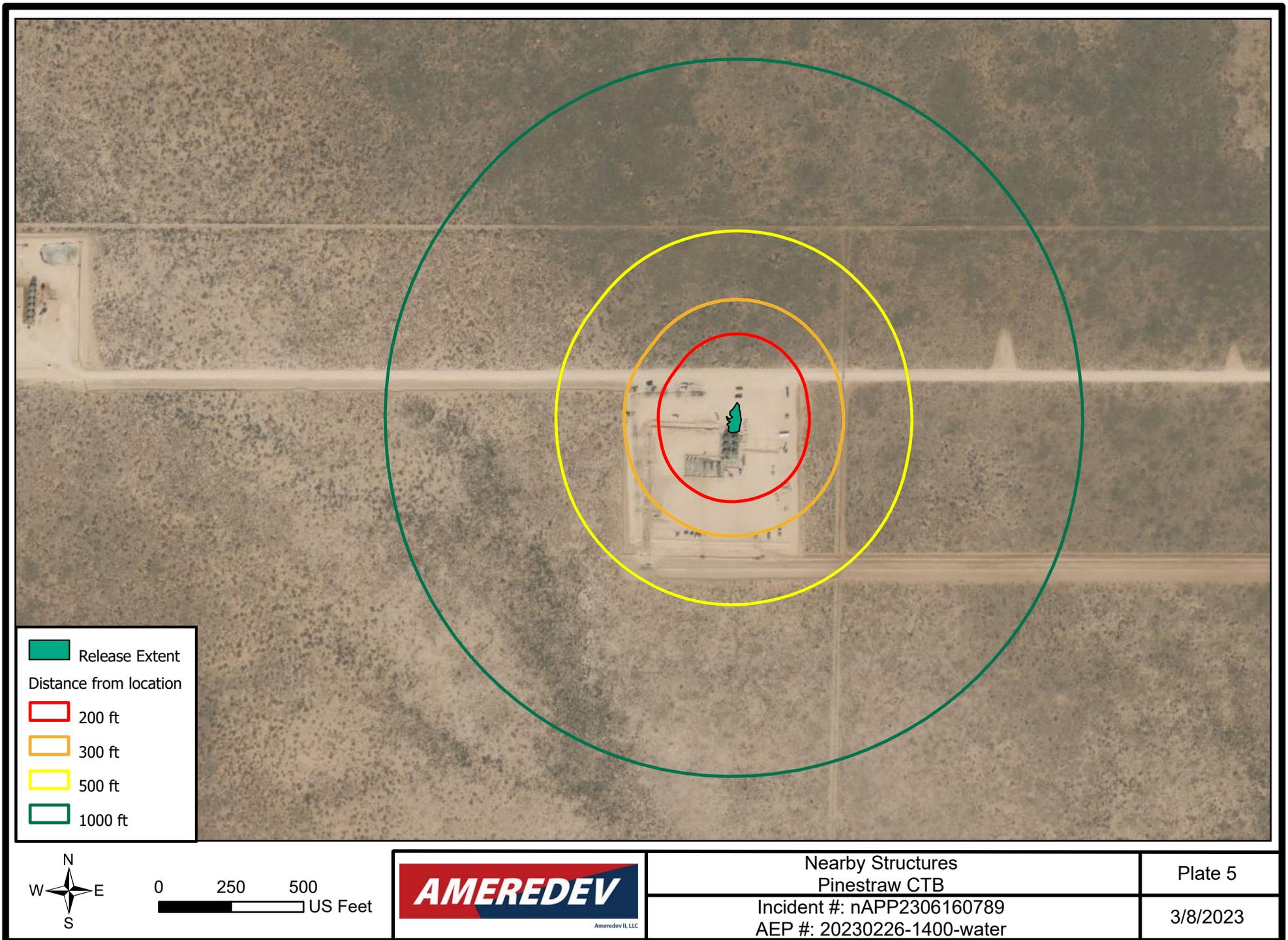
Wellhead Protection  
Pinestraw CTB

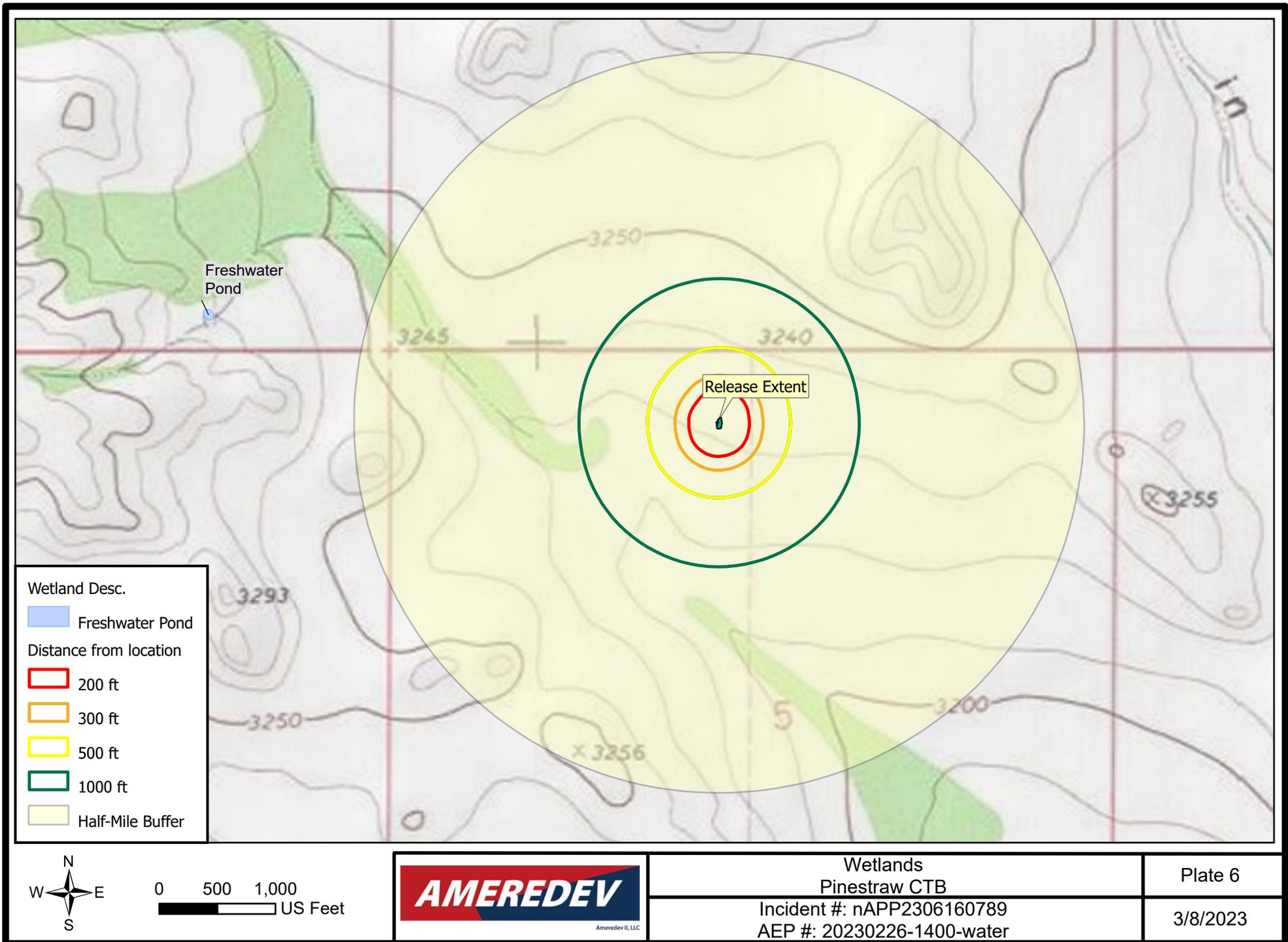
Incident #: nAPP2306160789  
AEP #: 20230226-1400-water

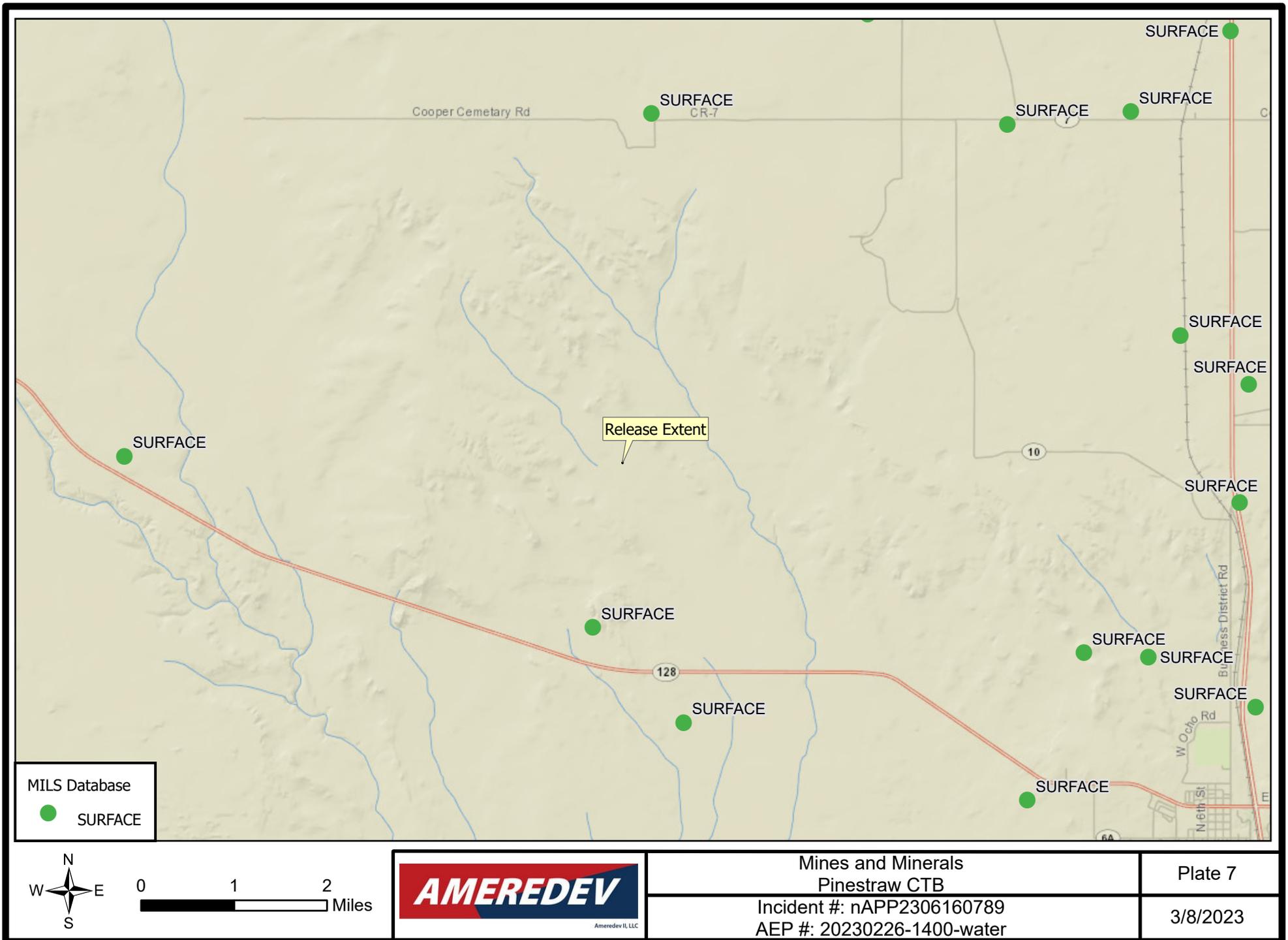
Plate 3

3/8/2023







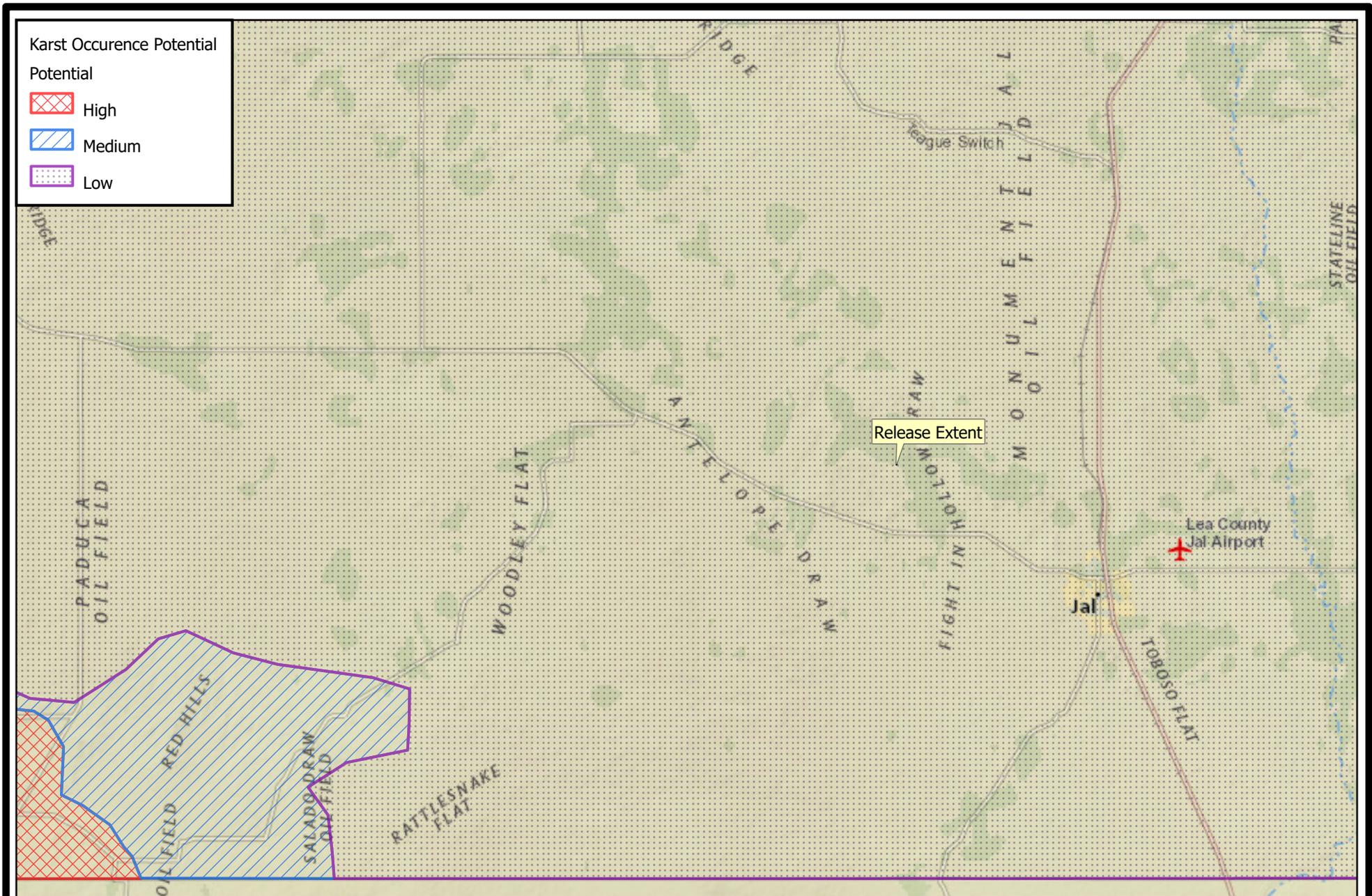


MILS Database  
 ● SURFACE



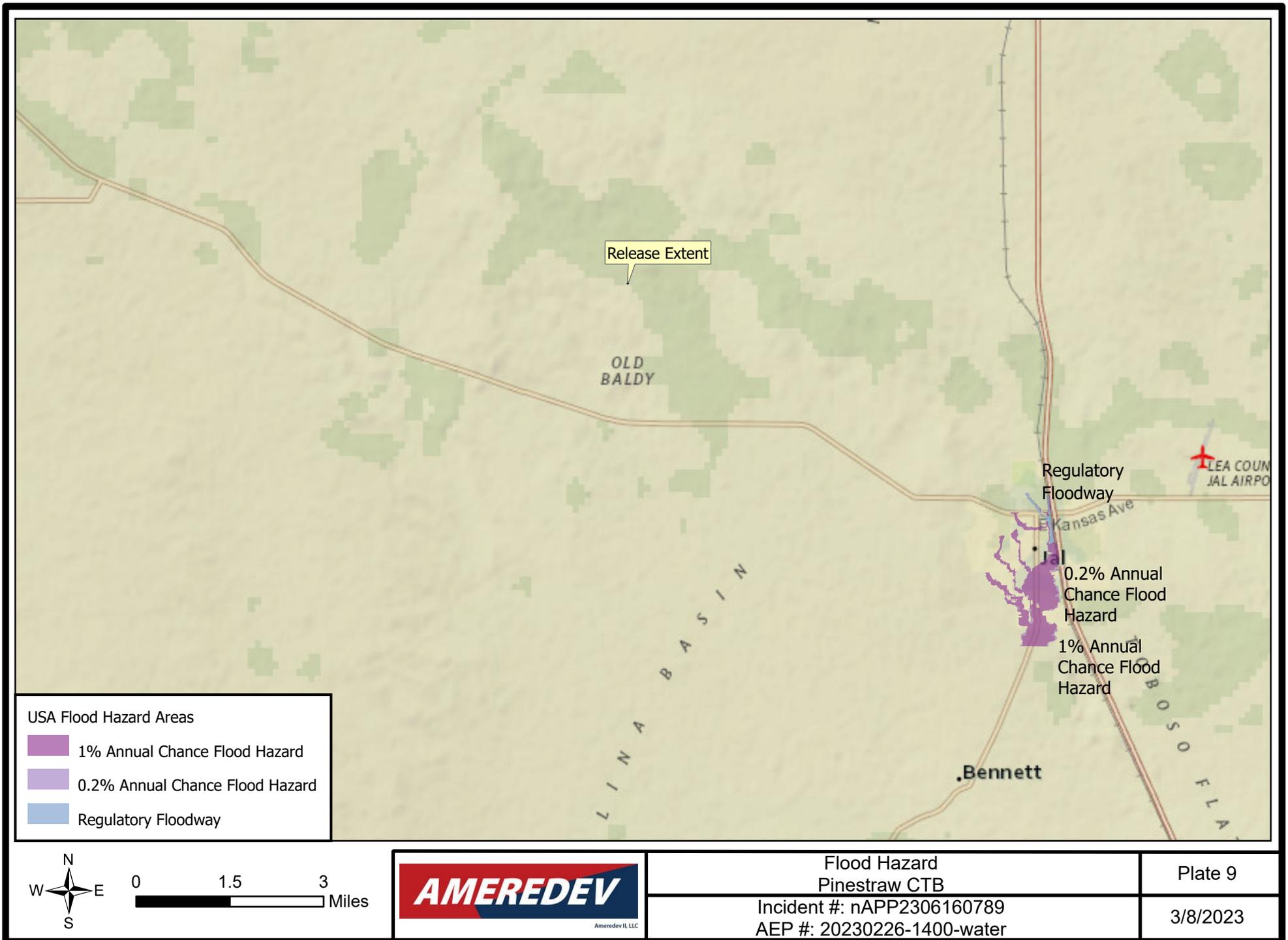
Mines and Minerals  
 Pinestraw CTB  
 Incident #: nAPP2306160789  
 AEP #: 20230226-1400-water

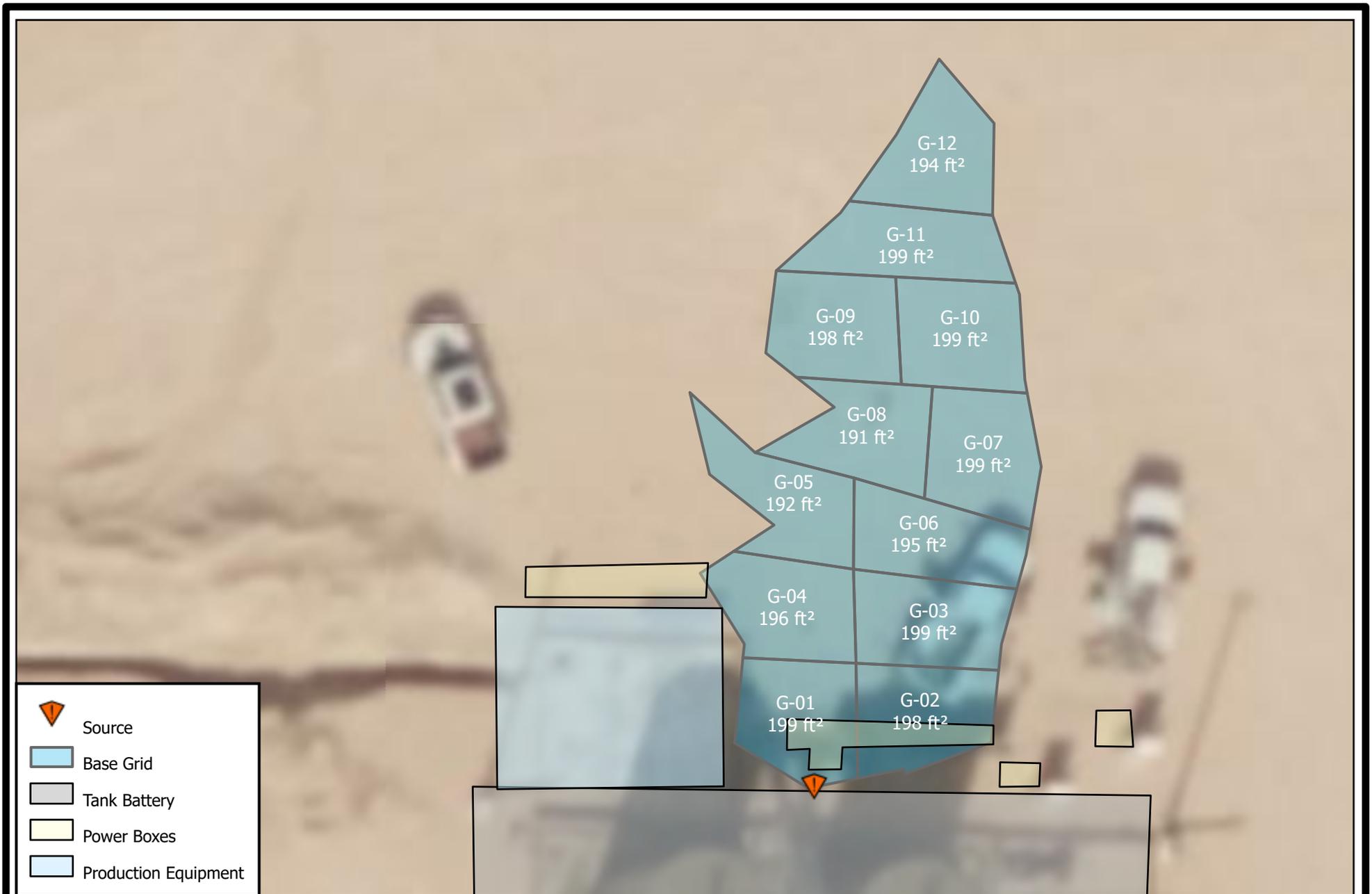
Plate 7  
 3/8/2023



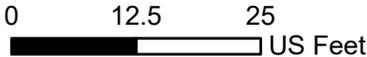
|  |
|--|
| Karst Potential<br>Pinestraw CTB                         |
| Incident #: nAPP2306160789<br>AEP #: 20230226-1400-water |

|          |
|----------|
| Plate 8  |
| 3/8/2023 |



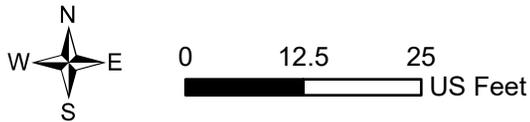
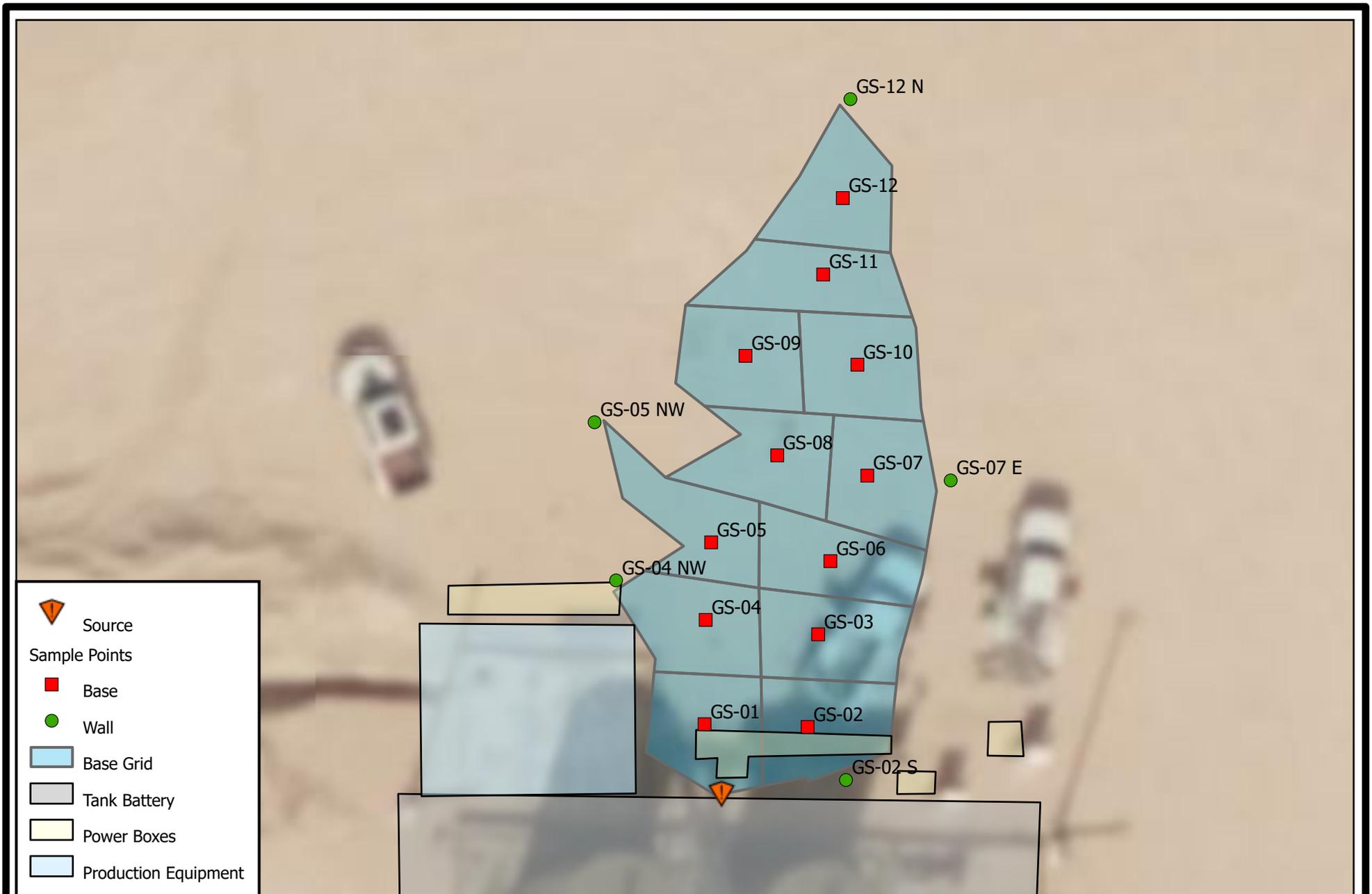


-  Source
-  Base Grid
-  Tank Battery
-  Power Boxes
-  Production Equipment



|   |  |            |
|---|--|------------|
| Sample Grid with Associated Square Footage<br>Pinestraw CTB |  | Plate 10   |
| Incident #: nAPP2306160789                                  |  | 03/21/2023 |
| AEP #: 20230226-1400-water                                  |  |            |



|  |
|--|
| Sample Point Locations<br>Pinestraw CTB                  |
| Incident #: nAPP2306160789<br>AEP #: 20230226-1400-water |

|            |
|------------|
| Plate 11   |
| 03/21/2023 |

# Tables



Ameredev II, LLC

| Sample Point | Latitude    | Longitude    |
|--------------|-------------|--------------|
| GS-01        | 32.16502024 | -103.2878014 |
| GS-02        | 32.16501927 | -103.2877584 |
| GS-02 S      | 32.16500055 | -103.2877424 |
| GS-03        | 32.16505198 | -103.2877540 |
| GS-04        | 32.16505708 | -103.2878010 |
| GS-04 NW     | 32.16507103 | -103.2878384 |
| GS-05        | 32.16508446 | -103.2877987 |
| GS-05 NW     | 32.16512687 | -103.2878473 |
| GS-06        | 32.16507784 | -103.2877489 |
| GS-07        | 32.16510801 | -103.2877335 |
| GS-07 E      | 32.16510632 | -103.2876986 |
| GS-08        | 32.16511519 | -103.2877711 |
| GS-09        | 32.16515033 | -103.2877843 |
| GS-10        | 32.16514720 | -103.2877376 |
| GS-11        | 32.16517904 | -103.2877519 |
| GS-12        | 32.16520603 | -103.2877437 |
| GS-12 N      | 32.16524096 | -103.2877405 |

March 21, 2023

Table B  
Summary of AnalyticalIncident ID: nAPP2306160789  
Pinestraw CTB  
AEP #: 20230226-1400-water

| Sample ID                 | Date       | Discrete Depth (Feet) | Top Depth (Feet) | Bottom Depth (Feet) | Location | Chloride (mg/kg) | GRO+DRO (mg/kg) | TPH Ext. (mg/kg) | Benzene (mg/kg) | BTEX (mg/kg) | Comments | Lab (Hall/Cardinal) | Lab #   |
|---------------------------|------------|-----------------------|------------------|---------------------|----------|------------------|-----------------|------------------|-----------------|--------------|----------|---------------------|---------|
| NMOCD 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           |          |                     |         |
| GS-01                     | 3/10/2023  | 1                     |                  |                     |          | 64               | <114            | <124             | <0.05           | 2.08         |          | Cardinal            | H231122 |
| GS-02                     | 3/10/2023  | 1                     |                  |                     |          | 80               | <45.7           | <55.7            | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-02 S                   | 3/10/2023  |                       | 0                | 1                   |          | 80               | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-03                     | 3/10/2023  | 1                     |                  |                     |          | 80               | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-04                     | 3/10/2023  | 1                     |                  |                     |          | 48               | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-04 NW                  | 3/10/2023  |                       | 0                | 1                   |          | 32               | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-05                     | 3/10/2023  | 1                     |                  |                     |          | 32               | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-05 NW                  | 3/10/2023  |                       | 0                | 1                   |          | 176              | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-06                     | 3/10/2023  | 1                     |                  |                     |          | 320              | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-07                     | 3/10/2023  | 1                     |                  |                     |          | 1010             | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-07 E                   | 3/10/2023  |                       | 0                | 1                   |          | 352              | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-08                     | 3/10/2023  | 1                     |                  |                     |          | 336              | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-09                     | 3/10/2023  | 1                     |                  |                     |          | 208              | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-10                     | 3/10/2023  | 1                     |                  |                     |          | 32               | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-11                     | 3/10/2023  | 1                     |                  |                     |          | 336              | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-12                     | 3/10/2023  | 1                     |                  |                     |          | 112              | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| GS-12 N                   | 3/10/2023  |                       | 0                | 1                   |          | 368              | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H231122 |
| Backfill 01               | 10/26/2022 |                       |                  |                     |          | 16               | <20             | <30              | <0.05           | <0.30        |          | Cardinal            | H225055 |

# Appendix A

## Communications



Ameredev II, LLC

**Andrew Parker**

---

**From:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>  
**Sent:** Monday, March 13, 2023 4:45 PM  
**To:** Andrew Parker  
**Cc:** Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD  
**Subject:** FW: [EXTERNAL] nAPP2306160789 2-day sampling notice

External (jennifer.nobui@emnrd.nm.gov)

[Report This Email](#) [FAQ](#) [Protection by INKY](#)

Hello Andrew

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Notification for liner inspections and obtaining confirmation samples is two business days, not 48 hours. You may proceed with this inspection, however two business days' notice is required going forward. Inspections and confirmation samples will not be accepted without proper notification.

***19.15.29.11 A.(5)(a)(ii) at least two business days' notice to the appropriate division district office before conducting the liner inspection.***

***19.15.29.12D.(a) The responsible party must verbally notify the appropriate division district office two business days prior to conducting final sampling. If the division district office does not respond to the notice within the two business days, the responsible party may proceed with final sampling. The responsible party may request a variance from this requirement upon a showing of good cause as determined by the division.***

Please note: **Notice to [ocd.enviro@emnrd.nm.gov](mailto:ocd.enviro@emnrd.nm.gov) and/or project reviewer or Incident Supervisor is considered notice to the appropriate district office.**

Thanks,  
Jennifer Nobui

---

**From:** Andrew Parker <[aparker@ameredev.com](mailto:aparker@ameredev.com)>  
**Sent:** Monday, March 13, 2023 8:06 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Laura Parker <[lparker@ameredev.com](mailto:lparker@ameredev.com)>; Jesus Palomares <[jpalomares@ameredev.com](mailto:jpalomares@ameredev.com)>  
**Subject:** [EXTERNAL] nAPP2306160789 2-day sampling notice

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

NMOCD:

Initial remedial actions commenced on Wednesday March 8<sup>th</sup>. Excavation of impacted material progressed at a faster rate than anticipated and characterization samples were collected on March 10<sup>th</sup>. Characterization samples may be used

for confirmation samples. Per 19.15.29 NMAC, please accept this email as the 2-day confirmation sampling notice. Ameredev understands that the 2-day notice was not met per the Rule and that NMOCD may request additional confirmation samples. A Remediation Plan will be submitted to NMOCD upon review of characterization sample analytical results.

A copy of this correspondence will be included in the forthcoming Remediation Plan.

Incident #: nAPP2306160789  
AEP#: 20230226-1400-water  
Location: Pinestraw CTB

Thank you,

Andrew Parker  
Environmental Scientist  
970-570-9535



---

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>  
**Sent:** Friday, March 3, 2023 1:14 PM  
**To:** Andrew Parker <[aparker@ameredev.com](mailto:aparker@ameredev.com)>  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 192723

To whom it may concern (c/o Andrew Parker for AMEREDEV OPERATING, LLC),

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

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,  
Jocelyn Harimon  
Environmental Specialist  
575-748-1283  
[Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)

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

## Andrew Parker

---

**From:** OCDOnline@state.nm.us  
**Sent:** Thursday, March 2, 2023 5:53 PM  
**To:** Andrew Parker  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 192716

**Caution:** External (ocdonline@state.nm.us)

Spam Content [Details](#)

[Report This Email](#) [FAQ](#) [Protection by INKY](#)

To whom it may concern (c/o Andrew Parker for AMEREDEV OPERATING, LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2306160789, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2306160789, on all subsequent C-141 submissions and communications regarding the remediation of this release.

**NOTE:** As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

1220 South St. Francis Drive

Santa Fe, NM 87505

# Appendix B

## Well Logs



Ameredev II, LLC



2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

March 3, 2023

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record CP- 1949 POD-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, CP- 1949 POD-1

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

2023 03 10 12:38:29 PM



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

|   |   |                           |   |  |  |  |  |                    |
|---|---|---------------------------|---|--|--|--|--|--------------------|
| <b>1. GENERAL AND WELL LOCATION</b>   | OSE POD NO. (WELL NO.)<br>POD-1   |                           | WELL TAG ID NO.<br>n/a                                  |  | OSE FILE NO(S).<br>CP-1949                       |  |  |                    |
|   | WELL OWNER NAME(S)<br>Ameredev Operating, LLC   |                           |   |  | PHONE (OPTIONAL)<br>737-300-4700                 |  |  |                    |
|   | WELL OWNER MAILING ADDRESS<br>2901 Via Fortuna Suite 600  |                           |   |  | CITY<br>Austin                                   | STATE<br>TX  | ZIP<br>78746                               |                    |
|   | WELL LOCATION (FROM GPS)  | DEGREES<br>LATITUDE       | MINUTES<br>32   | SECONDS<br>9   | 56.72  | N  | * ACCURACY REQUIRED: ONE TENTH OF A SECOND |                    |
|   |   | LONGITUDE                 | 103   | 17   | 42.72  | W  | * DATUM REQUIRED: WGS 84                   |                    |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>NW L4 Sec.5 T25S R36E NMPM |   |                           |   |  |  |  |  |                    |
| <b>2. DRILLING &amp; CASING INFORMATION</b>   | LICENSE NO.<br>1249   |                           | NAME OF LICENSED DRILLER<br>Jackie D. Atkins            |  |  | NAME OF WELL DRILLING COMPANY<br>Atkins Engineering Associates, Inc. |  |                    |
|   | DRILLING STARTED<br>2/17/23   | DRILLING ENDED<br>2/17/23 | DEPTH OF COMPLETED WELL (FT)<br>temporary well material | BORE HOLE DEPTH (FT)<br>±102   | DEPTH WATER FIRST ENCOUNTERED (FT)<br>n/a        |  |  |                    |
|   | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)   |                           |   |  | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>n/a | DATE STATIC MEASURED<br>2/20/23                                      |  |                    |
|   | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:   |                           |   |  |  |  |  |                    |
|   | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger |                           |   |  |  | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>  |  |                    |
|   | DEPTH (feet bgl)  |                           | BORE HOLE DIAM (inches)                                 | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter)   | CASING INSIDE DIAM. (inches)   | CASING WALL THICKNESS (inches)             | SLOT SIZE (inches) |
|   | FROM  | TO                        |   |  |  |  |  |                    |
|   | 0   | 102                       | ±6.25"  | Boring-HSA   | --   | --   | --   | --                 |
|   |   |                           |   |  |  |  |  |                    |
|   |   |                           |   |  |  |  |  |                    |
|   |   |                           |   |  |  |  |  |                    |
|   |   |                           |   |  |  |  |  |                    |
|   |   |                           |   |  |  |  |  |                    |
|   |   |                           |   |  |  |  |  |                    |
|   |   |                           |   |  |  |  |  |                    |
| <b>3. ANNULAR MATERIAL</b>  | DEPTH (feet bgl)  |                           | BORE HOLE DIAM. (inches)                                | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL                      | AMOUNT (cubic feet)                              | METHOD OF PLACEMENT  |  |                    |
|   | FROM  | TO                        |   |  |  |  |  |                    |
|   |   |                           |   |  |  |  |  |                    |
|   |   |                           |   |  |  |  |  |                    |
|   |   |                           |   |  |  |  |  |                    |
|   |   |                           |   |  |  |  |  |                    |

|                      |                 |             |  |  |  |
|----------------------|-----------------|-------------|--|--|--|
| FOR OSE INTERNAL USE |                 |             | WR-20 WELL RECORD & LOG (Version 01/28/2022) |  |  |
| FILE NO.             | POD NO.         | TRN NO.     |  |  |  |
| LOCATION             | WELL TAG ID NO. | PAGE 1 OF 2 |  |  |  |

| 4. HYDROGEOLOGIC LOG OF WELL  | DEPTH (feet bgl) |     | THICKNESS<br>(feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED -<br>INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES<br>(attach supplemental sheets to fully describe all units) | WATER<br>BEARING?<br>(YES / NO)                      | ESTIMATED<br>YIELD FOR<br>WATER-<br>BEARING<br>ZONES (gpm) |
|---|------------------|-----|---------------------|--|--|--|
|   | FROM             | TO  |                     |  |  |  |
|   | 0                | 4   | 4                   | Sand, fine-grained, poorly graded, Brown   | Y    ✓ N   |  |
|   | 4                | 20  | 16                  | Sand, fine-grained, poorly graded, with Caliche, Tan/off white   | Y    ✓ N   |  |
|   | 16               | 65  | 36                  | Sand, fine-grained, poorly grade, Tan Brown  | Y    ✓ N   |  |
|   | 65               | 102 | 37                  | Clay, with fine silt, Hard, Brownish Red, Dry  | Y    ✓ N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
|   |                  |     |                     |  | Y    N   |  |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:<br><input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: |                  |     |                     |  | TOTAL ESTIMATED<br>WELL YIELD (gpm):            0.00 |  |

|                          |  |   |
|--------------------------|--|---|
| 5. TEST; RIG SUPERVISION | WELL TEST  | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |
|                          | MISCELLANEOUS INFORMATION: Temporary well material removed , backfilled using drill cuttings to 10 feet below ground surface (bgs), then from 10 bgs to surface with hydrated bentonite, see attached plugging record.<br>DTW-15 |   |
|                          | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:<br>Shane Eldridge, Cameron Pruitt  |   |

|              |   |                          |
|--------------|---|--------------------------|
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: |                          |
|              | <br>SIGNATURE OF DRILLER / PRINT SIGNEE NAME   | Jackie D. Atkins<br>DATE |

|                      |                 |  |  |
|----------------------|-----------------|--|--|
| FOR OSE INTERNAL USE |                 | WR-20 WELL RECORD & LOG (Version 01/28/2022) |  |
| FILE NO.             | POD NO.         | TRN NO.                                      |  |
| LOCATION             | WELL TAG ID NO. | PAGE 2 OF 2                                  |  |



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

**I. GENERAL / WELL OWNERSHIP:**

State Engineer Well Number: CP-1949 POD-1  
Well owner: Ameredev Operating, LLC Phone No.: 737-300-4700  
Mailing address: 2901 Via Fortuna Suite 600  
City: Austin State: Texas Zip code: 78746

**II. WELL PLUGGING INFORMATION:**

- 1) Name of well drilling company that plugged well: Jackie D. Atkins ( Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge, Cameron Pruitt
- 4) Date well plugging began: 5/20/23 Date well plugging concluded: 5/20/23
- 5) GPS Well Location: Latitude: 32 deg, 9 min, 56.72 sec  
Longitude: 103 deg, 17 min, 42.72 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 102 ft below ground level (bgl),  
by the following manner: water level probe
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 1/18/23
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):



# 15-WR-20 Well Record and Log-packet-orsign

Final Audit Report

2023-03-07

|                 |  |
|-----------------|--|
| Created:        | 2023-03-07                                   |
| By:             | Lucas Middleton (lucas@atkinseng.com)        |
| Status:         | Signed                                       |
| Transaction ID: | CBJCHBCAABAAsbdOUFeXZFKzOqbnr7TDtrW1ynkEgmh8 |

## "15-WR-20 Well Record and Log-packet-orsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2023-03-07 - 8:40:37 PM GMT- IP address: 64.17.82.146
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2023-03-07 - 8:41:15 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2023-03-07 - 8:59:30 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2023-03-07 - 9:02:55 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.  
2023-03-07 - 9:02:55 PM GMT

ESC OFF MAR 7 2023 9:02 AM

# Appendix C

## Certificates of Analysis



Ameredev II, LLC



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

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March 15, 2023

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: PINESTRAW CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/10/23 16:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 01 1FT (H231122-01)**

| BTEX 8021B            |              | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |
|-----------------------|--------------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte               | Result       | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*              | <0.050       | 0.050           | 03/13/2023 | ND               | 2.07 | 104        | 2.00          | 0.472 |           |
| <b>Toluene*</b>       | <b>0.416</b> | 0.050           | 03/13/2023 | ND               | 2.10 | 105        | 2.00          | 1.94  |           |
| <b>Ethylbenzene*</b>  | <b>0.381</b> | 0.050           | 03/13/2023 | ND               | 2.08 | 104        | 2.00          | 1.80  |           |
| <b>Total Xylenes*</b> | <b>1.29</b>  | 0.150           | 03/13/2023 | ND               | 6.33 | 105        | 6.00          | 1.12  |           |
| <b>Total BTEX</b>     | <b>2.08</b>  | 0.300           | 03/13/2023 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>64.0</b> | 16.0            | 03/14/2023 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M               |            | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|-------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                 | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*             | <10.0      | 10.0            | 03/13/2023 | ND              | 216 | 108        | 200           | 4.85 |           |
| <b>DRO &gt;C10-C28*</b> | <b>104</b> | 10.0            | 03/13/2023 | ND              | 207 | 103        | 200           | 4.90 |           |
| EXT DRO >C28-C36        | <10.0      | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 02 1FT (H231122-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND               | 2.07 | 104        | 2.00          | 0.472 |           |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND               | 2.10 | 105        | 2.00          | 1.94  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND               | 2.08 | 104        | 2.00          | 1.80  |           |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND               | 6.33 | 105        | 6.00          | 1.12  |           |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>80.0</b> | 16.0            | 03/14/2023 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*             | <10.0       | 10.0            | 03/13/2023 | ND              | 216 | 108        | 200           | 4.85 |           |
| <b>DRO &gt;C10-C28*</b> | <b>35.7</b> | 10.0            | 03/13/2023 | ND              | 207 | 103        | 200           | 4.90 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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\*=Accredited Analyte

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 02 S 0-1FT (H231122-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND               | 2.07 | 104        | 2.00          | 0.472 |           |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND               | 2.10 | 105        | 2.00          | 1.94  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND               | 2.08 | 104        | 2.00          | 1.80  |           |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND               | 6.33 | 105        | 6.00          | 1.12  |           |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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\* = Accredited Analyte

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 03 1FT (H231122-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND               | 2.07 | 104        | 2.00          | 0.472 |           |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND               | 2.10 | 105        | 2.00          | 1.94  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND               | 2.08 | 104        | 2.00          | 1.80  |           |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND               | 6.33 | 105        | 6.00          | 1.12  |           |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 04 1FT (H231122-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND               | 2.07 | 104        | 2.00          | 0.472 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND               | 2.10 | 105        | 2.00          | 1.94  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND               | 2.08 | 104        | 2.00          | 1.80  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND               | 6.33 | 105        | 6.00          | 1.12  |           |  |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND               |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 04 NW 0-1FT (H231122-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND               | 2.07 | 104        | 2.00          | 0.472 |           |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND               | 2.10 | 105        | 2.00          | 1.94  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND               | 2.08 | 104        | 2.00          | 1.80  |           |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND               | 6.33 | 105        | 6.00          | 1.12  |           |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 05 1FT (H231122-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.21 | 110        | 2.00          | 0.260 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.18 | 109        | 2.00          | 0.594 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND              | 2.14 | 107        | 2.00          | 0.161 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND              | 6.55 | 109        | 6.00          | 0.665 |           |  |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 05 NW 0-1FT (H231122-08)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.21 | 110        | 2.00          | 0.260 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.18 | 109        | 2.00          | 0.594 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND              | 2.14 | 107        | 2.00          | 0.161 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND              | 6.55 | 109        | 6.00          | 0.665 |           |  |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 176    | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 06 1FT (H231122-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.21 | 110        | 2.00          | 0.260 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.18 | 109        | 2.00          | 0.594 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND              | 2.14 | 107        | 2.00          | 0.161 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND              | 6.55 | 109        | 6.00          | 0.665 |           |  |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 320    | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 07 1FT (H231122-10)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.21 | 110        | 2.00          | 0.260 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.18 | 109        | 2.00          | 0.594 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND              | 2.14 | 107        | 2.00          | 0.161 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND              | 6.55 | 109        | 6.00          | 0.665 |           |  |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 1010   | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 07 E 0-1FT (H231122-11)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.21 | 110        | 2.00          | 0.260 |           |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.18 | 109        | 2.00          | 0.594 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND              | 2.14 | 107        | 2.00          | 0.161 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND              | 6.55 | 109        | 6.00          | 0.665 |           |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 352    | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 08 1FT (H231122-12)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.21 | 110        | 2.00          | 0.260 |           |
| Toluene*       | <0.050 | 0.050           | 03/13/2023 | ND              | 2.18 | 109        | 2.00          | 0.594 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/13/2023 | ND              | 2.14 | 107        | 2.00          | 0.161 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/13/2023 | ND              | 6.55 | 109        | 6.00          | 0.665 |           |
| Total BTEX     | <0.300 | 0.300           | 03/13/2023 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 336    | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 09 1FT (H231122-13)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/15/2023 | ND               | 1.81 | 90.4       | 2.00          | 24.2 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/15/2023 | ND               | 1.80 | 89.8       | 2.00          | 24.0 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/15/2023 | ND               | 1.81 | 90.6       | 2.00          | 22.1 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/15/2023 | ND               | 5.72 | 95.3       | 6.00          | 21.3 |           |  |
| Total BTEX     | <0.300 | 0.300           | 03/15/2023 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 208    | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 10 1FT (H231122-14)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/15/2023 | ND               | 1.81 | 90.4       | 2.00          | 24.2 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/15/2023 | ND               | 1.80 | 89.8       | 2.00          | 24.0 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/15/2023 | ND               | 1.81 | 90.6       | 2.00          | 22.1 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/15/2023 | ND               | 5.72 | 95.3       | 6.00          | 21.3 |           |  |
| Total BTEX     | <0.300 | 0.300           | 03/15/2023 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 11 1FT (H231122-15)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/15/2023 | ND               | 1.81 | 90.4       | 2.00          | 24.2 |           |
| Toluene*       | <0.050 | 0.050           | 03/15/2023 | ND               | 1.80 | 89.8       | 2.00          | 24.0 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/15/2023 | ND               | 1.81 | 90.6       | 2.00          | 22.1 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/15/2023 | ND               | 5.72 | 95.3       | 6.00          | 21.3 |           |
| Total BTEX     | <0.300 | 0.300           | 03/15/2023 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 336    | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 12 1FT (H231122-16)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/15/2023 | ND               | 1.81 | 90.4       | 2.00          | 24.2 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/15/2023 | ND               | 1.80 | 89.8       | 2.00          | 24.0 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/15/2023 | ND               | 1.81 | 90.6       | 2.00          | 22.1 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/15/2023 | ND               | 5.72 | 95.3       | 6.00          | 21.3 |           |  |
| Total BTEX     | <0.300 | 0.300           | 03/15/2023 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 112    | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| Received:         | 03/10/2023          | Sampling Date:      | 03/10/2023       |
| Reported:         | 03/15/2023          | Sampling Type:      | Soil             |
| Project Name:     | PINESTRAW CTB       | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20230226-1400-WATER | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN          |                     |                  |

**Sample ID: GS - 12 N 0-1FT (H231122-17)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/15/2023 | ND               | 1.81 | 90.4       | 2.00          | 24.2 |           |
| Toluene*       | <0.050 | 0.050           | 03/15/2023 | ND               | 1.80 | 89.8       | 2.00          | 24.0 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/15/2023 | ND               | 1.81 | 90.6       | 2.00          | 22.1 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/15/2023 | ND               | 5.72 | 95.3       | 6.00          | 21.3 |           |
| Total BTEX     | <0.300 | 0.300           | 03/15/2023 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 368    | 16.0            | 03/14/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/13/2023 | ND              | 191 | 95.5       | 200           | 13.5 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/13/2023 | ND              | 159 | 79.3       | 200           | 20.4 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/13/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04            The RPD for the BS/BSD was outside of historical limits.
- ND                Analyte NOT DETECTED at or above the reporting limit
- RPD                Relative Percent Difference
- \*\*                 Samples not received at proper temperature of 6°C or below.
- \*\*\*                Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

|  |  |  |  |
|--|--|--|--|
| Company Name: <b>Amereder</b><br>Project Manager: <b>Andrew Parker</b><br>Address: <b>On-File</b><br>City: _____ State: _____ Zip: _____<br>Phone #: _____ Fax #: _____<br>Project #: _____ Project Owner: _____<br>Project Name: <b>20230226-1400-water</b><br>Project Location: <b>Firestopy CTB</b><br>Sampler Name: <b>Jesus Palomares</b>   |  | P.O. #: <b>20230226-1400-water</b><br>Company: <b>Amereder</b><br>Attn: <b>aparker@amereder.com</b><br>Address: _____<br>City: _____ State: _____ Zip: _____<br>Phone #: _____ Fax #: _____  |  |
| FOR LAB USE ONLY<br>Lab I.D. _____ Sample I.D. _____   |  | <b>BILL TO</b>   |  |
| (G)RAB OR (C)OMP. _____<br># CONTAINERS _____<br>MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____<br>PRESERV: ACID/BASE: _____ ICE / COOL _____ OTHER: _____  |  | <b>SAMPLING</b>  |  |
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| Relinquished By: _____<br>Date: <b>03-10-23</b> Time: <b>10:37</b><br>Received By: <b>Spodeigneur</b>  |  | REMARKS: <b>TEMP BIPM 72.2c</b>  |  |
| Delivered By: (Circle One) _____<br>Sampler - UPS - Bus - Other: _____<br>Observed Temp. °C: <b>3.6</b><br>Corrected Temp. °C: <b>3.0</b>  |  | Sample Condition: Cool Intact _____<br>Checked By: _____ (Initials)<br>Turnaround Time: _____<br>Standard _____ Bacteria (only) Sample Condition _____<br>Cool Intact _____ Observed Temp. °C _____<br>Thermometer ID #113 _____<br>Correction Factor -0.5°C _____<br>Corrected Temp. °C _____ |  |

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: **Amerder**  
 Project Manager: **Andrew Parker**  
 Address: **On-File**  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: **20230226-1400-waters**  
 Project Location: **Pinestraw CTB**  
 Sampler Name: **Jesus Palomas**  
 FOR LAB USE ONLY

**BILL TO**  
 P.O. #: **20230226-1400-waters**  
 Company: **Amerder**  
 Attn: **aparker@amerder.com**  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

**ANALYSIS REQUEST**

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         | DATE  | TIME              | ANALYSIS |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|-------|-------------------|----------|
|          |             |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : |       |                   |          |
| 11       | GS-07E      | 0-1H              | 9            |             |            |      |     |        | 03-10   | 14:15 | Chloride          |          |
| 12       | GS-08       | 1H                | 1            |             |            |      |     |        | 03-10   | 14:20 | TPH (GRO+DRO+MRO) |          |
| 13       | GS-09       | 1H                | 1            |             |            |      |     |        | 03-10   | 14:24 | BTEX (Benzene)    |          |
| 14       | GS-10       | 1H                | 1            |             |            |      |     |        | 03-10   | 14:31 |                   |          |
| 15       | GS-11       | 1H                | 1            |             |            |      |     |        | 03-10   | 14:34 |                   |          |
| 16       | GS-12       | 1H                | 1            |             |            |      |     |        | 03-10   | 14:40 |                   |          |
| 17       | GS-12N      | 0-1H              | 1            |             |            |      |     |        | 03-10   | 14:48 |                   |          |

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Relinquished By: \_\_\_\_\_  
 Date: **03-10-23**  
 Received By: **Spotlight**  
 Date: **03-10-23**  
 Time: \_\_\_\_\_

Delivered By: (Circle One) \_\_\_\_\_  
 Observed Temp. °C: **3.0**  
 Corrected Temp. °C: **3.0**  
 Sample Condition:  Cool  Intact  
 Checked By: **SP**  
 Turaround Time: \_\_\_\_\_  
 Thermometer ID #113  
 Correction Factor -0.6°C

Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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---

November 02, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: PEACH RISER

Enclosed are the results of analyses for samples received by the laboratory on 10/26/22 16:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                |
|-------------------|---------------------|---------------------|----------------|
| Received:         | 10/26/2022          | Sampling Date:      | 10/26/2022     |
| Reported:         | 11/02/2022          | Sampling Type:      | Soil           |
| Project Name:     | PEACH RISER         | Sampling Condition: | Cool & Intact  |
| Project Number:   | 20220920-2300-WATER | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN          |                     |                |

**Sample ID: PEACH RISER TOP SOIL 01 (H225055-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 11/02/2022 | ND              | 1.86 | 92.9       | 2.00          | 3.21 |           |
| Toluene*       | <0.050 | 0.050           | 11/02/2022 | ND              | 2.08 | 104        | 2.00          | 3.24 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 11/02/2022 | ND              | 2.06 | 103        | 2.00          | 3.58 |           |
| Total Xylenes* | <0.150 | 0.150           | 11/02/2022 | ND              | 6.26 | 104        | 6.00          | 3.40 |           |
| Total BTEX     | <0.300 | 0.300           | 11/02/2022 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 10/31/2022 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/31/2022 | ND              | 167 | 83.6       | 200           | 0.952 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/31/2022 | ND              | 175 | 87.4       | 200           | 0.439 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/31/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 93.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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\*=Accredited Analyte

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**Analytical Results For:**

AMEREDEV  
 ANDREW PARKER  
 2901 VIA FORTUNA , SUITE 600  
 AUSTIN TX, 78746  
 Fax To:

|                   |                     |                     |                |
|-------------------|---------------------|---------------------|----------------|
| Received:         | 10/26/2022          | Sampling Date:      | 10/26/2022     |
| Reported:         | 11/02/2022          | Sampling Type:      | Soil           |
| Project Name:     | PEACH RISER         | Sampling Condition: | Cool & Intact  |
| Project Number:   | 20220920-2300-WATER | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN          |                     |                |

**Sample ID: PEACH RISER BACKFILL 01 (H225055-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 11/02/2022 | ND              | 1.86 | 92.9       | 2.00          | 3.21 |           |
| Toluene*       | <0.050 | 0.050           | 11/02/2022 | ND              | 2.08 | 104        | 2.00          | 3.24 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 11/02/2022 | ND              | 2.06 | 103        | 2.00          | 3.58 |           |
| Total Xylenes* | <0.150 | 0.150           | 11/02/2022 | ND              | 6.26 | 104        | 6.00          | 3.40 |           |
| Total BTEX     | <0.300 | 0.300           | 11/02/2022 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 10/31/2022 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/31/2022 | ND              | 167 | 83.6       | 200           | 0.952 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/31/2022 | ND              | 175 | 87.4       | 200           | 0.439 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/31/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Amreth LLC  
 Project Manager: Andrew Parker  
 Address: Dr. file  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: 20220420-2300- Water  
 Project Location: Peach River  
 Sampler Name: Christopher Turner  
 P.O. #: 20220420-2300- Water  
 Company: Amreth LLC  
 Attn: Andrew Parker  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

| Lab I.D.      | Sample I.D.                      | FOR LAB USE ONLY |              | MATRIX        | PRESERV             | SAMPLING | DATE            | TIME        | ANALYSIS                     |
|---------------|----------------------------------|------------------|--------------|---------------|---------------------|----------|-----------------|-------------|------------------------------|
|               |                                  | (G)RAB OR (C)OMP | # CONTAINERS |               |                     |          |                 |             |                              |
| <u>425055</u> | <u>1 Peach River Topsoil 01</u>  | <u>↓</u>         | <u>1</u>     | <u>X</u> SOIL | <u>X</u> ACID/BASE  | <u>↓</u> | <u>10/26/22</u> | <u>3:05</u> | <u>Chloride</u>              |
|               | <u>2 Peach River Backfill 01</u> | <u>↓</u>         | <u>1</u>     | <u>X</u> SOIL | <u>X</u> ICE / COOL | <u>↓</u> | <u>10/26/22</u> | <u>3:09</u> | <u>TPH (Gro + Dro + Mro)</u> |
|               |                                  |                  |              |               |                     |          |                 |             | <u>BTEX (Benzene)</u>        |

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Relinquished By: AK Date: 10/26/22 Received By: Shirley Roberts  
 Time: 10:26 Date: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C: 4.3 Sample Condition:  Intact  Cool  Yes  No  
 Sampler - UPS - Bus - Other: Corrected Temp. °C: 3.7 CHECKED BY: AK  
 Turnaround Time: \_\_\_\_\_ Standard:  Bacteria (only)  Cool  Intact  Yes  No  
 Thermometer ID #113 Correction Factor -0.5°C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

# Appendix D

## Liner Inspection Correspondence



Ameredev II, LLC

## Andrew Parker

---

**From:** Rebecca Lara <rlara@bugleenergy.com>  
**Sent:** Friday, March 31, 2023 11:26 AM  
**To:** Matthew (Brody) Boyd  
**Cc:** Andrew Parker  
**Subject:** [EXTERNAL] RE: Pinestraw containment  
**Attachments:** Ameredev Post Repair Report.xlsx  
  
**Importance:** High

External (rlara@bugleenergy.com)

[Report This Email](#) [FAQ](#) [Protection by INKY](#)

Good morning gentlemen!

I think the best way to handle the post-repair report is to create an Excel sheet and share it back and forth.

Please see attached and let me know if this works for both of you.

Thank you!

"MAKE IT THE BEST DAY EVER!!"

Rebecca Lara  
Business Development



Bugle Energy Services  
[rlara@bugleenergy.com](mailto:rlara@bugleenergy.com)  
432-296-3136 C 432-218-7839 O  
[www.bugleenergy.com](http://www.bugleenergy.com)  
<https://trunkline.com/en/rebeccal>

---

**From:** Rebecca Lara  
**Sent:** Thursday, March 30, 2023 10:53 AM  
**To:** Matthew (Brody) Boyd <mboyd@ameredev.com>  
**Cc:** Andrew Parker <aparker@ameredev.com>  
**Subject:** RE: Pinestraw containment

I will try and get you a Pinestraw report as soon as I can.

Thanks!

<https://trunkline.com/en/rebeccal>

---

**From:** Matthew (Brody) Boyd <[mboyd@ameredev.com](mailto:mboyd@ameredev.com)>

**Sent:** Thursday, March 30, 2023 10:36 AM

**To:** Rebecca Lara <[rlara@bugleenergy.com](mailto:rlara@bugleenergy.com)>

**Cc:** Andrew Parker <[aparker@ameredev.com](mailto:aparker@ameredev.com)>

**Subject:** Pinestraw containment

Rebecca,

I was wondering if you could send a post job repair report on these containments as the crews are fixing them. If so I would love to get the Pinestraw CTB report asap.

Thanks

Brody Boyd

Ameredev

| Location      | Coordinates             | Repair Date | Repairs   |
|---------------|-------------------------|-------------|---|
| Pinestraw CTB | 32.1642552, -103.288074 | 3/22/2023   | Repaired 67 holes in liner, (1) 5x5 & (1) 13x9 liner patch, 4 panels patched, 2 panels re-sprayed, replaced 10' of base flashing, |

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

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

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

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

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

CONDITIONS

Action 205671

**CONDITIONS**

|  |   |
|--|---|
| Operator:<br>AMEREDEV OPERATING, LLC<br>2901 Via Fortuna<br>Austin, TX 78746 | OGRID:<br>372224  |
|  | Action Number:<br>205671                                  |
|  | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition   | Condition Date |
|------------|---|----------------|
| jnobui     | Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A. | 5/12/2023      |