

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Release (NOR) Application

Submission Information

Submission ID:	136266	Districts:	Hobbs
Operator:	[372224] AMEREDEV OPERATING, LLC	Counties:	Lea
Description:	AMEREDEV OPERATING, LLC [372224] 20220813-1610-water Par 3 101 Corrected location name - 20220813-2020-water Par 3 101 nAPP2223440579 {Discovery: 08/13/2022, Active, , Private}		
Status:	APPROVED		
Status Date:	08/22/2022		
References (1):	nAPP2223440579		

Forms

This application type does not have attachments.

Questions

Location of Release Source

Please answer all of the questions in this group.

Site Name	20220813-1610-water Par 3 101 Corrected to 20220813-2020-water Par 3 101
Date Release Discovered	08/13/2022
Surface Owner	Private

Incident Details

Please answer all of the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Valve Produced Water Released: 44 BBL Recovered: 23 BBL Lost: 21 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes

Other, Specify, Unknown, and/or Fire, or any negative lost amounts) [barrels.](#)

Nature and Volume of Release (continued)

Is this a gas only submission (i.e. only significant Mcf values reported) **No, according to supplied volumes this does not appear to be a “gas only” report.**

Was this a major release as defined by 19.15.29.7(A) NMAC **Yes, major release.**

Reasons why this would be considered a submission for a notification of a major release

- Unauthorized release of a volume, excluding gases, of 25 barrels or more

If YES, was immediate notice given to the OCD, by whom [Andrew Parker](#)

If YES, was immediate notice given to the OCD, to whom [OCD.Enviro@state.nm.us; Mike Bratcher](#)

If YES, was immediate notice given to the OCD, when [08/15/2022](#)

If YES, was immediate notice given to the OCD, by what means (phone, email, etc.) [Email](#)

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped **True**

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

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

All free liquids and recoverable materials have been removed and managed appropriately **True**

If all the actions described above have not been undertaken, explain why **Not answered.**

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 it has 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.

Acknowledgments

- ☒ I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
- ☒ I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
- ☒ I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
- ☒ I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
- ☒ I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
- ☒ I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Comments

No comments found for this submission.

Conditions

Summary: [aparker1969](#) (8/22/2022). When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the

No reasons found for this submission.

Go Back

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012
1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

Spill Dimensions to Volume of Release			
Input	volume of affected soil	[feet^3]	7084.50
Input	Porosity: typically is .35 to .40 for most soils	[-]	0.35
Input	Proportion of porosity filled with release fluid [0,1]	[-]	0.10
Output	volume of fluid	[feet^3]	248.0
		[gal]	1854.9
		Barrels	44.2
		Recovered	Net
		23	21.2

From GIS

Sq. Ft 9446

Depth (ft) 0.75

Cu. Ft 7084.5

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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? <u>Plate 2</u>	<u>>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? <u>Plate 4</u>	<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)? <u>Plate 4</u>	<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? <u>Plate 5</u>	<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? <u>Plate 3</u>	<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? <u>Plate 3</u>	<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? <u>Plate 3</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? <u>Plate 6</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? <u>Plate 7</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? <u>Plate 8</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? <u>Plate 9</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

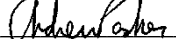
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile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

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

State of New Mexico
Oil Conservation Division

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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 ParkerTitle: Env. ScientistSignature: Date: October 14, 2022email: aparker@ameredev.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn HarimonDate: 10/14/2022

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Remediation Plan

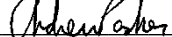
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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 ParkerTitle: Env. ScientistSignature: Date: October 14, 2022email: aparker@ameredev.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn Harimon Date: 10/14/2022☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature: Date: 11/09/2022

Incident ID	nAPP2223440579
District RP	
Facility ID	
Application ID	

Closure

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

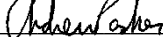
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ 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: October 14, 2022

email: aparker@ameredev.com

Telephone: 970-570-9535

OCD Only

Received by: Jocelyn Harimon

Date: 10/14/2022

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____



Ameredev II, LLC

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

October 14, 2022

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

RE: Closure Report and Deferral Request
Incident ID: nAPP2223440579
Par 3 101 H Booster
AEP #: 20220813-2020-water (Corrected Site name from C-141)

NMOCD:

Ameredev Operating submits this deferral request for the above referenced incident. We respectfully ask NMOCD for

1. Remediation deferral around production equipment within the right-of-way.
2. Remediation deferral for areas on production site currently being used for oil and gas operations.
3. Ameredev has completed remediation and restoration of areas off-site, including pastureland and within the right-of-way, to meet regulatory closure criteria.

Included in this report is the characterization data and remediation activities for incident number nAPP2223440579.

The release occurred on August 13, 2022 from a leak at a water transfer pump flange. The calculated volume of released produced water was 44.2 barrels with 23 barrels recovered. The release occurred on an active production site and flowed offsite onto a pipeline right-of-way (ROW) for oil and gas operations and onto pastureland. The release is located on Fee surface. The coordinates of the release point are 32.1689789, -103.3110565 (Lat, Long; NAD83). The release did not impact surface or groundwater. Figure 1 shows the source (booster pump) of the release; Figures 2 through 4 show the extent of the release.

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Par 3 101 H Booster

AEP #: 20220813-2020-water

Figure 1: View of the Source (at booster pump) facing north towards pad from southern ROW.

Date Taken: 2022-08-14 10:00:15

GPS: 32.1689119, -103.3109950



Figure 2: View of impacted onsite area facing west-northwest from the southeast edge of release extent.

Date Taken: 2022-08-14 09:56:06

GPS: 32.1690694, -103.3109247

Figure 3: View of the ROW release extent facing west.

Date Taken: 2022-08-14 09:58:02

GPS: 32.1689247, -103.3112547



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Figure 4: View of release extent in pasture facing south from ROW.

Date Taken: 2022-08-14 09:59:07

GPS: 32.1688458, -103.3111658

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 initially determined by visual observations. The release extent mapping utilized GPS technology with sub-meter accuracy.

Plate 1 shows the release extent relative to the Par 3 101 H production site, production equipment, ROW, nearby utilities, and pastureland. The source of the release is located at 32.1689789, -103.3110565 (Lat, Long; NAD83). The release extent covered an area of approximately 9,446 sq. ft.

1.2. Depth to Ground Water

To adequately determine depth-to-water within ½-mile of the release extent, Ameredev Operating began a depth-to-water borehole program mid-September 2022. The depth-to-water program:

- Boreholes will be located throughout Ameredev Operating leases in New Mexico.
- Located within ½-mile of identified areas, and
- Drilled to a depth of 101-feet below ground surface, left open for 72-hours, then gauged for the presence of groundwater within the upper 100-feet of ground surface.

The depth to water borehole nearest to the release area is mapped on Plate 2:

- MISC-408 (CP-1919 POD 1) is located immediately adjacent to the release. Depth of the water is noted as >101-feet. The Well Log is presented in Appendix B.

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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 fresh water well or spring.

1.3. 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 0.2 miles (983 ft) to the southwest of the release extent.

1.4. 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 and ROW used for oil and gas operations and onto pastureland.

The release occurred in the Mobeetie-Potter association with a slope of 0 – 15% and the Simona-Upton association¹. The USDA Natural Resources Conservation Service (NRCS) soil survey describes the upper 5-feet of the Mobeetie-Potter lithology as

- *A - 0 to 4 inches*: fine sandy loam
- *Bw - 4 to 24 inches*: fine sandy loam
- *Bk - 24 to 60 inches*: fine sandy loam

And the Simona-Upton association lithology as

- *A - 0 to 8 inches*: gravelly loam
- *Bkm - 8 to 18 inches*: cemented material
- *Bck - 18 to 60 inches*: very gravelly loam

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

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

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2. Remediation & Restoration

Ameredev proceeded with excavation of the off-site ROW and pastureland area to remove impacted material within the release extent to prevent further migration of the constituents of concern and to coordinate with construction activities. Release extent area off site was divided into sample grids of not more than 200 sq ft. Soil samples were collected from each grid base and along excavation walls for laboratory analysis of chloride, TPH, Benzene, and BTEX. Included in Appendix A is the 48 hour sampling notification.

- Plate 10 shows the sample grid layout with square footage.
- Plate 11 shows the confirmation/delineation sample locations.
- Table A shows the coordinates of the sample points.
- Table B presents a summary of analytical.
- Appendix B contains the Laboratory Certificates of Analysis

Ameredev excavated the release extent area off site (ROW and pasture) until the walls and bases met Closure Criteria per Table 1 of 19.15.29 NMAC as defined below.

- For the release areas along a right-of-way and where depth to water is > 100 ft
 - Upper 4-feet
 - Chloride < 600 mg/kg
 - TPH (GRO + DRO + MRO) < 100 mg/kg
 - BTEX < 50 mg/kg
 - Benzene < 10 mg/kg
 - Below 4-feet
 - 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

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Ameredev N, LLC

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Figure 5: Pasture excavation viewed from north to south.

Date Taken: 2022-09-14 11:10:39

GPS: 32.1688981, -103.3110689

Figure 6: East/West ROW excavation facing west.

Date Taken: 2022-09-14 11:13:29

GPS: 32.1688928, -103.3110822



Figure 7: East/West ROW excavation facing east towards deferral area/production equipment.

Date Taken: 2022-09-14 11:12:00

GPS: 32.1688108, -103.3113142

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The portion of the release extent that is off-site and within the ROW and pastureland were remediated, restored, and reclaimed per 19.15.29.13.D NMAC. Reseeding will occur at the next favorable growing season.



Figure 8: View of restored ROW and pastureland looking southeast from the northwest extent.

Date Taken: 2022-10-11 13:26:04. GPS: 32.1689217, -103.3113544

3. Deferral Request

Ameredeve Operating respectfully requests deferral of remediation of the area on an active production site and off site production equipment to prevent a major facility deconstruction. Per 19.15.29.12.C.(2) NMAC, remediation may be deferred around production equipment where remediation would cause a major facility deconstruction.

Deferral request meets criteria as defined in 19.15.29.12.C.(2):

- ***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.***

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Ameredeve N, LLC

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Par 3 101 H Booster

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The areas on site, where deferral is requested, the top 0.5 feet was scraped, removed, and hauled off site to approved disposal facility. The release extent area on site was comprehensively sampled with grab samples for vertical and horizontal delineation to support deferral request. All on site delineation samples met closure criteria per Table 1 of 19.15.29 NMAC as defined below for an active production site (see Table B Summary of Analytical).

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



Figure 9: View of restored on site area facing southwest from the northeast extent.

Date Taken: 2022-10-11 13:52:53. GPS: 32.1690747, -103.3113125

Remediation deferral is also requested where production equipment prevented complete remediation of a portion of base grids G-07, G-08 and G-14. Sample GS-08 E exhibited a chloride concentration (12,100 mg/kg) above closure criteria for off-site areas but below closure criteria for areas around production facilities. Delineation samples GS-06 E (also a wall confirmation sample for grid G-06) and GS-08 E2 met closure criteria for off pad and provided horizontal delineation, confirming impacted soil is contained within the area of production equipment (see Table B Summary of Analytical).

An estimated 780 cu. yds. of material was excavated and hauled off-site to an approved disposal facility.

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The release extent on the active production site and at production equipment will be remediated, restored, and reclaimed per 19.15.29.13.D NMAC when the production site and facility is no longer in-use for oil and gas operations.

Please contact me with any questions.

Sincerely,
Ameredev II, LLC



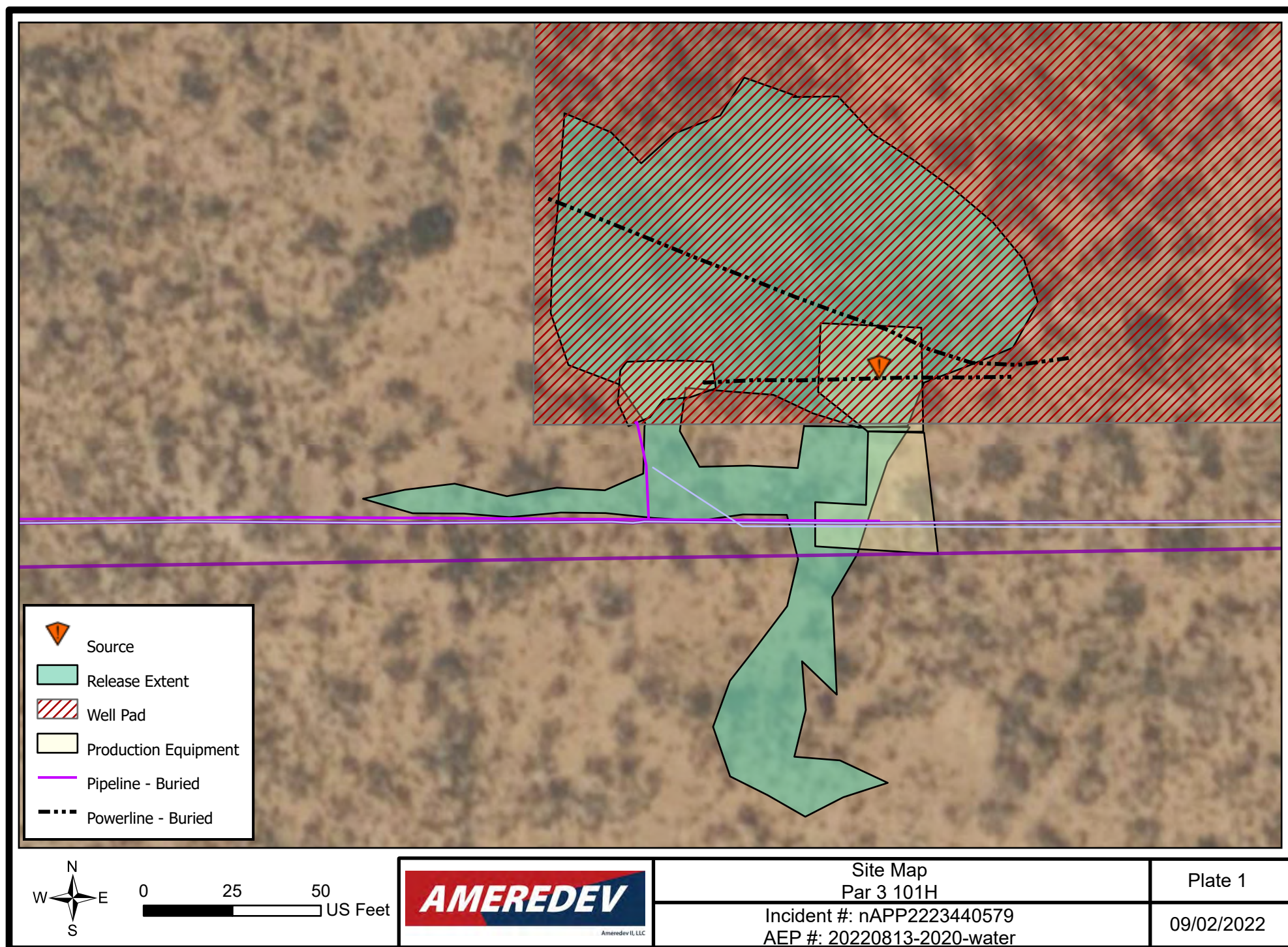
Andrew Parker
Env. Scientist

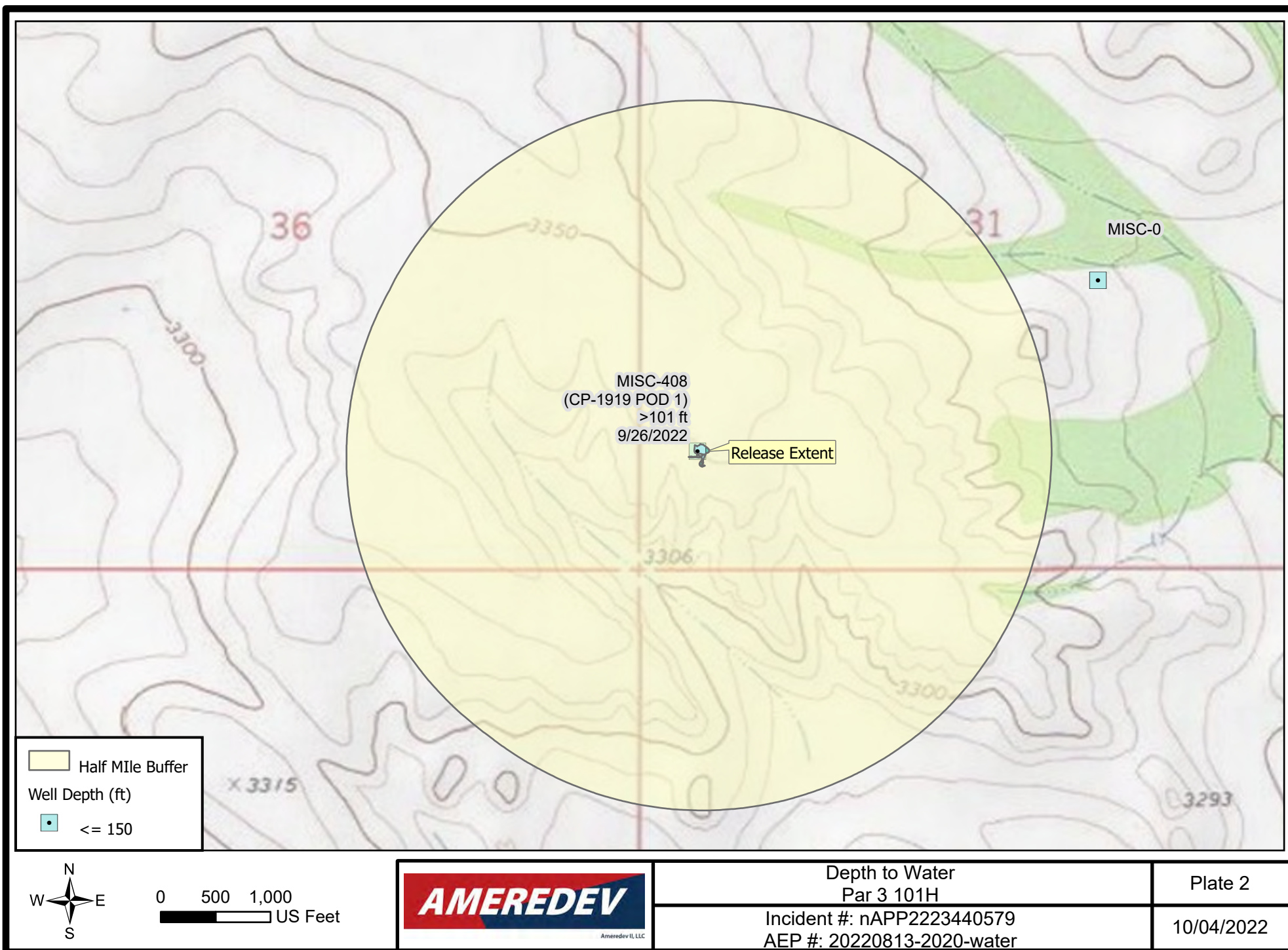
10/14/2022

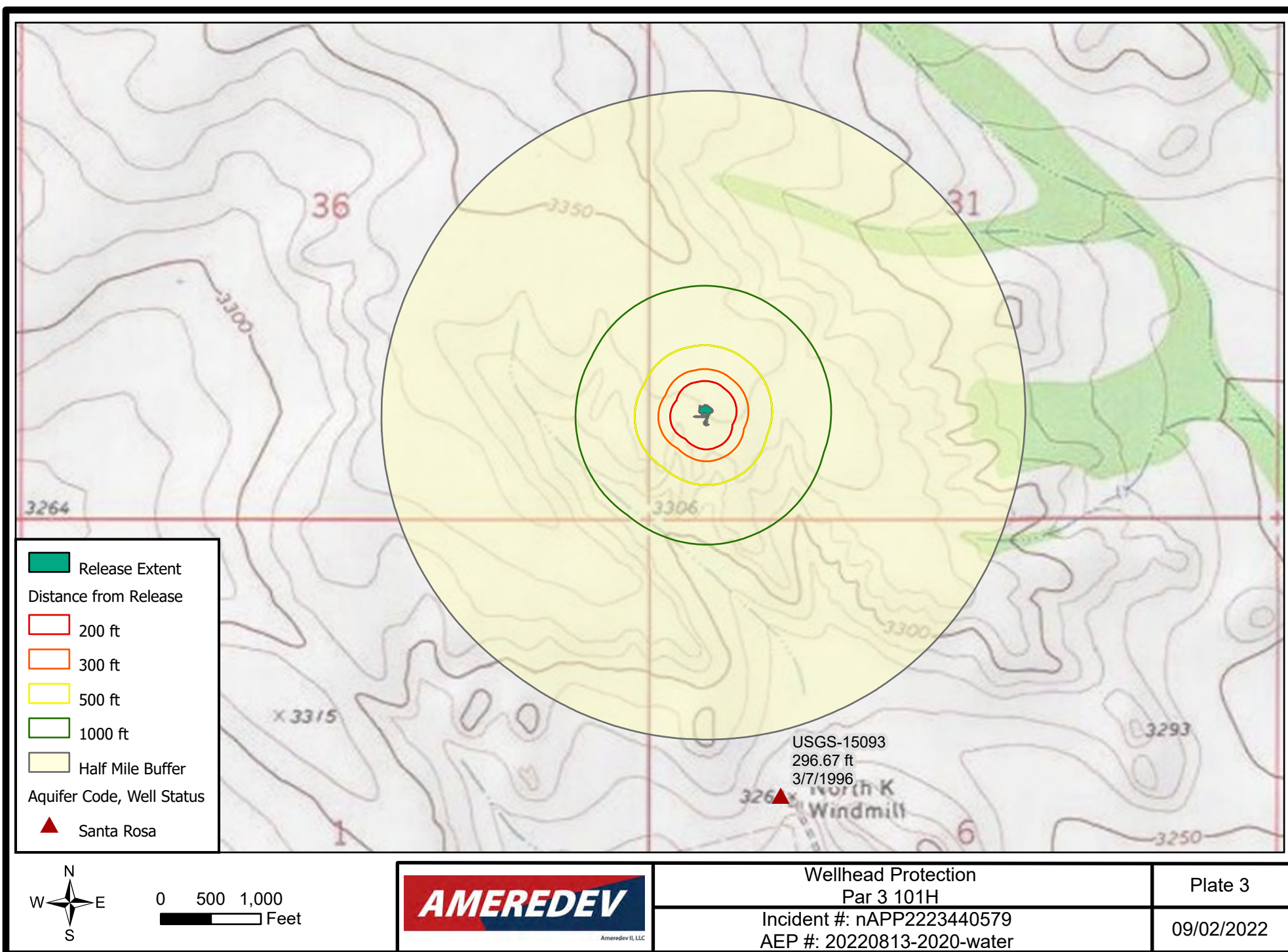
Plates

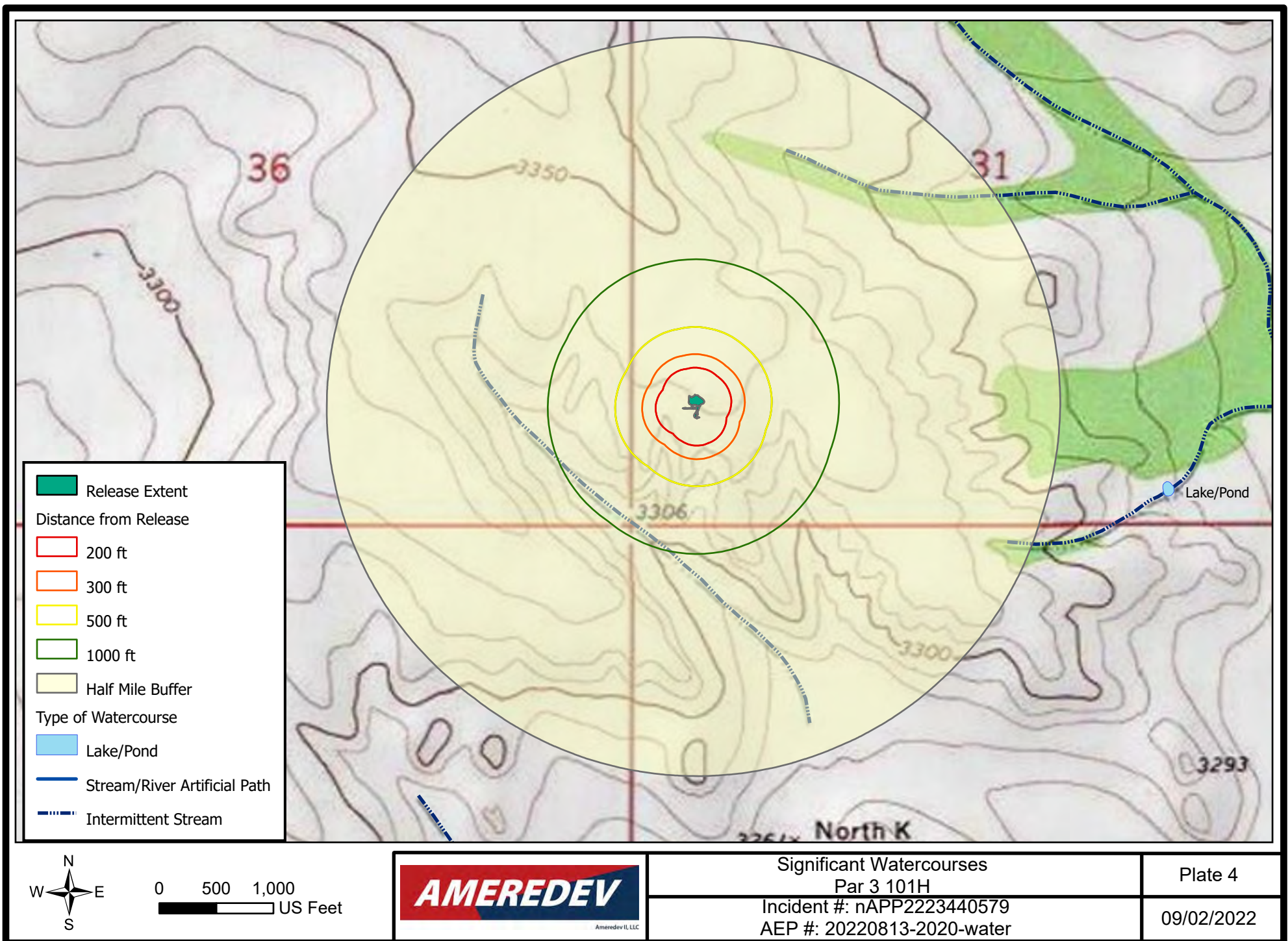


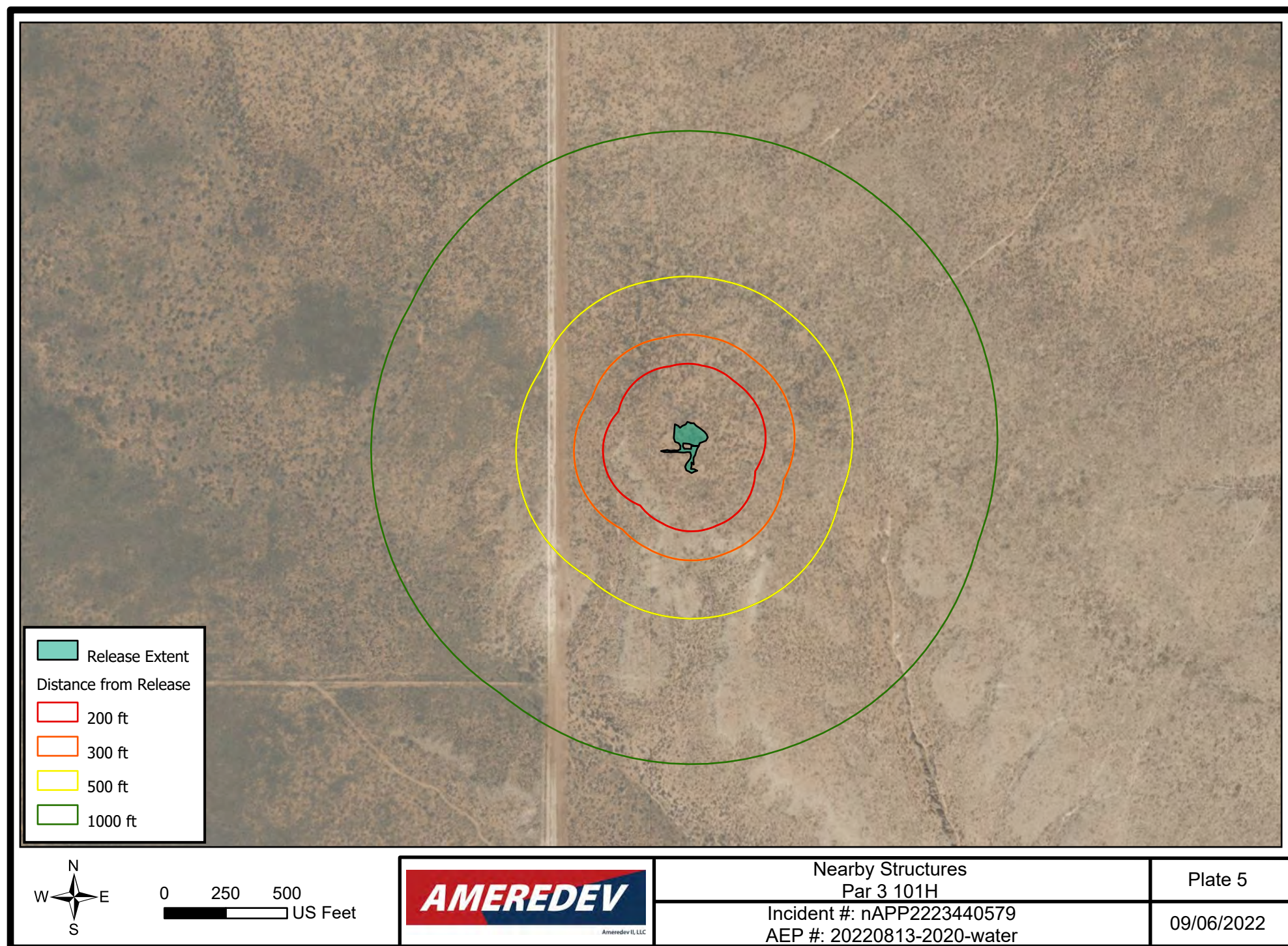
Ameredev II, LLC

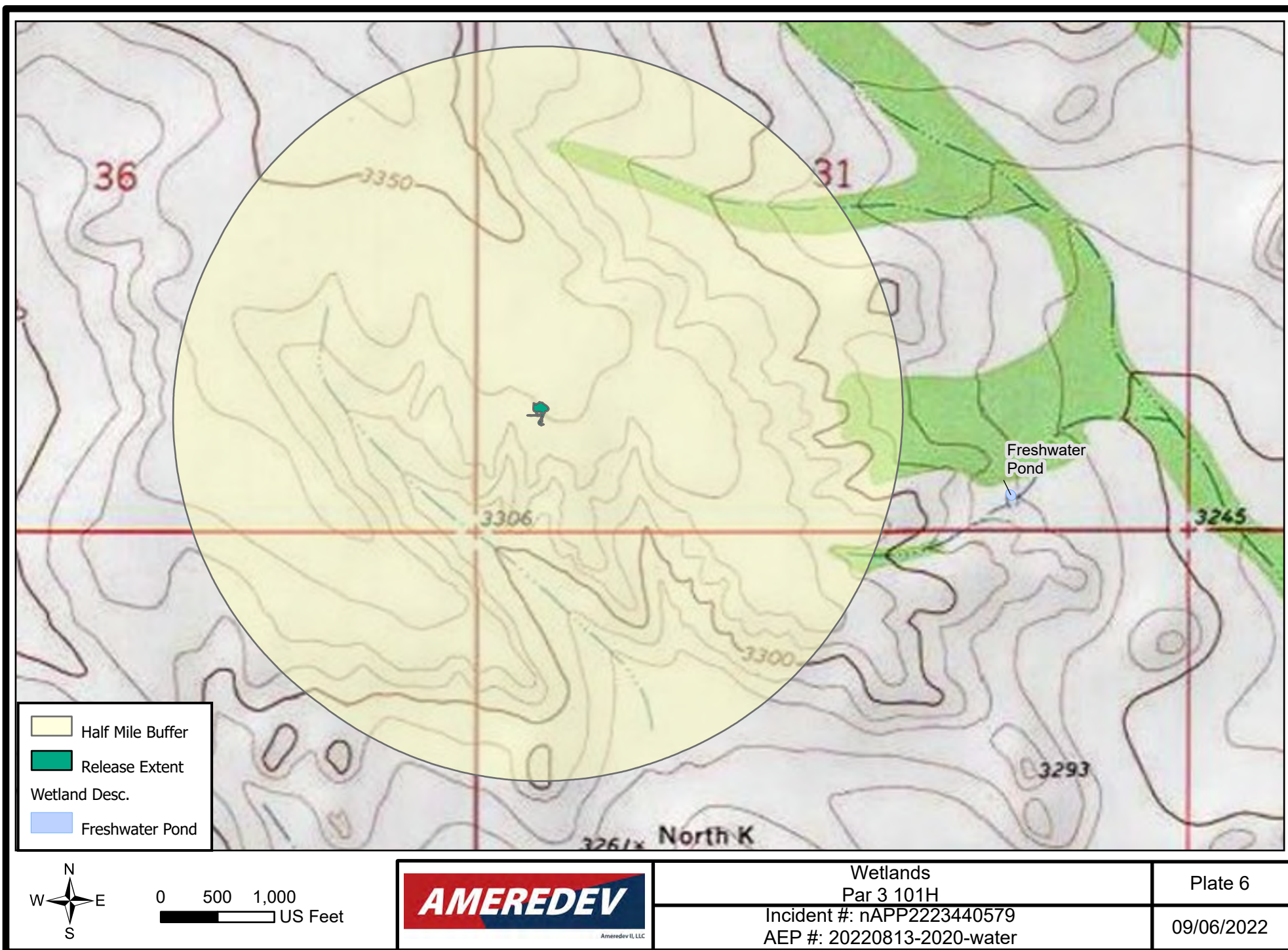


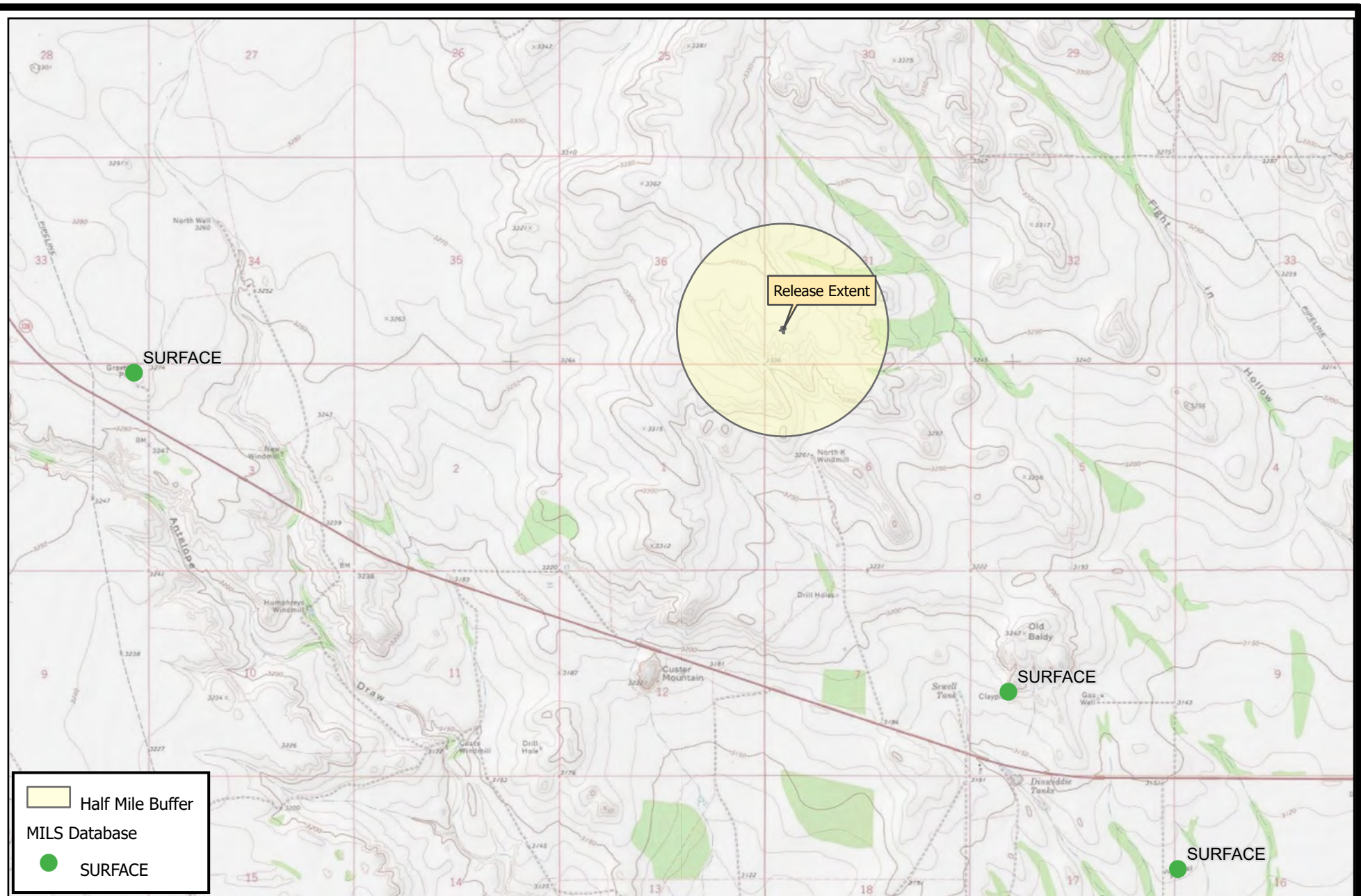












0 0.5 1 Miles

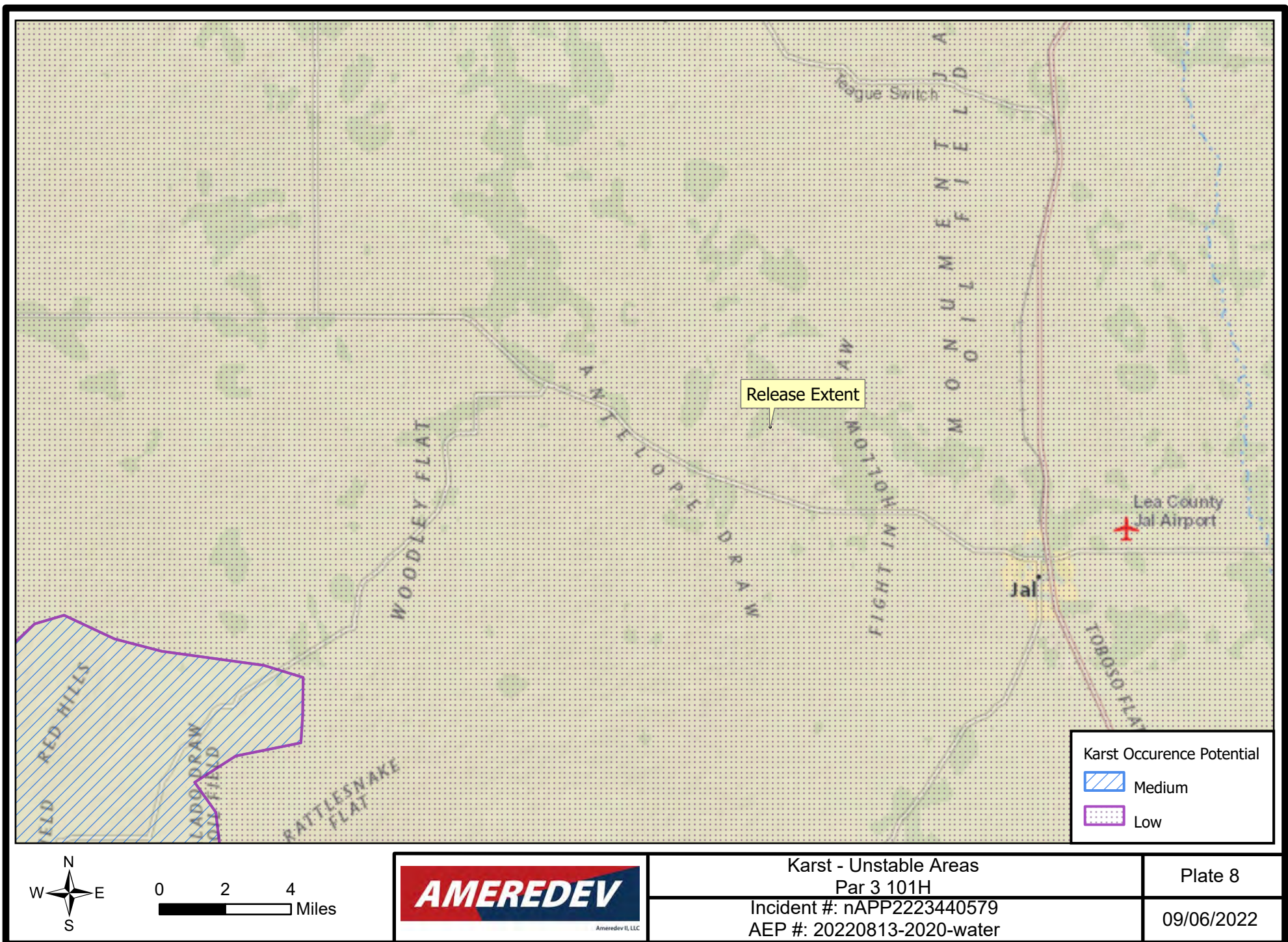


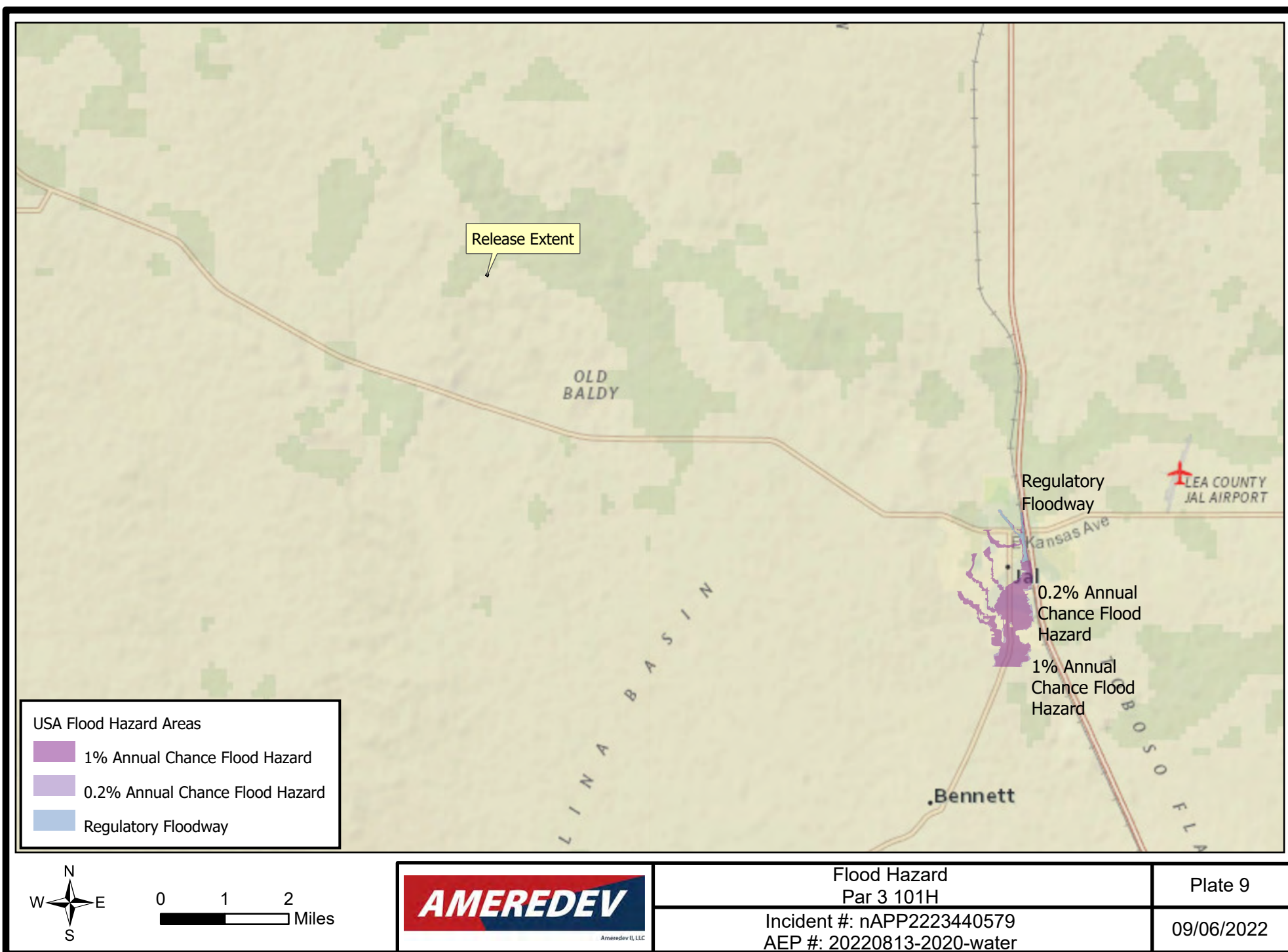
Mines and Minerals
Par 3 101H

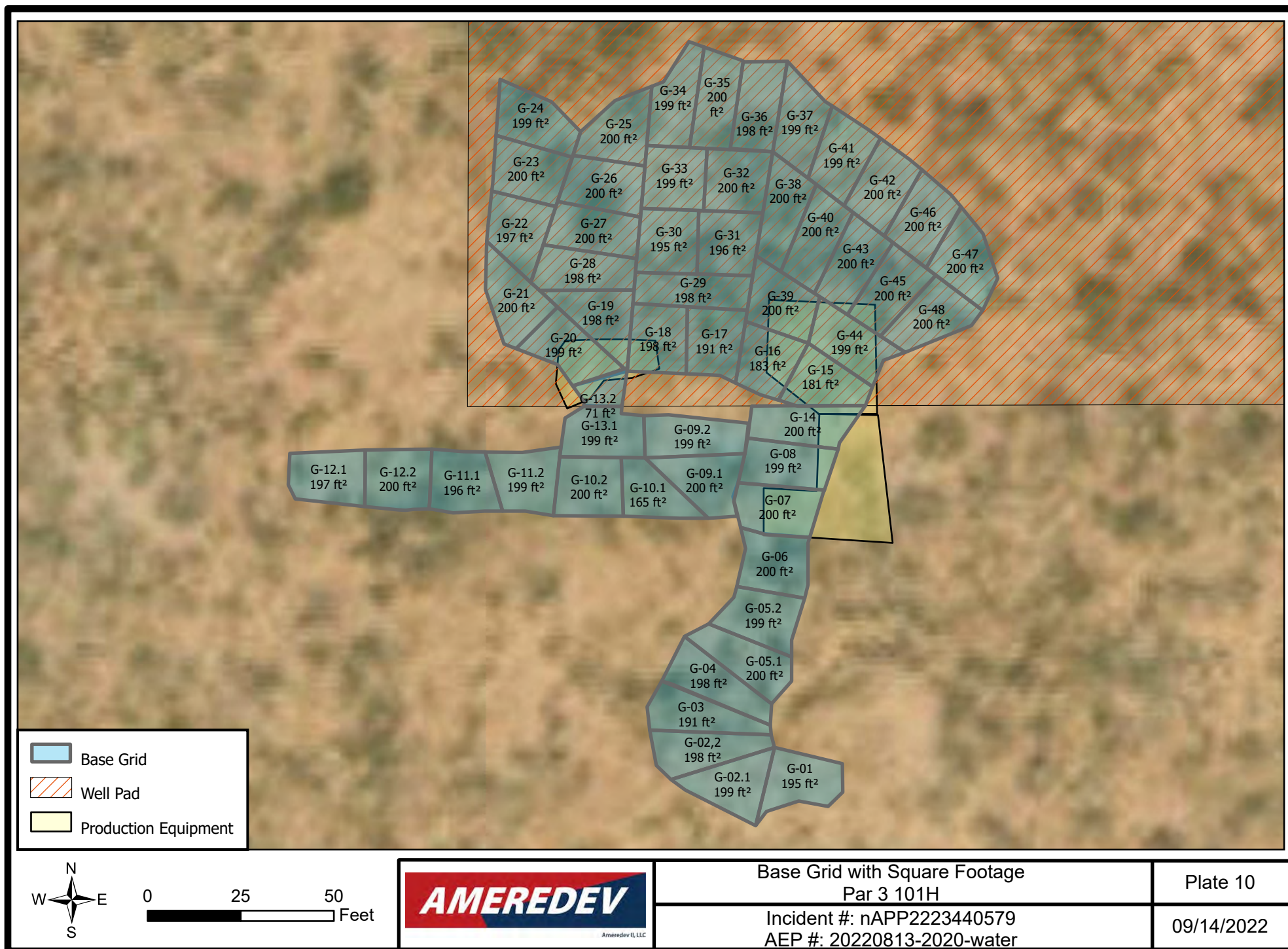
Incident #: nAPP2223440579
AEP #: 20220813-2020-water

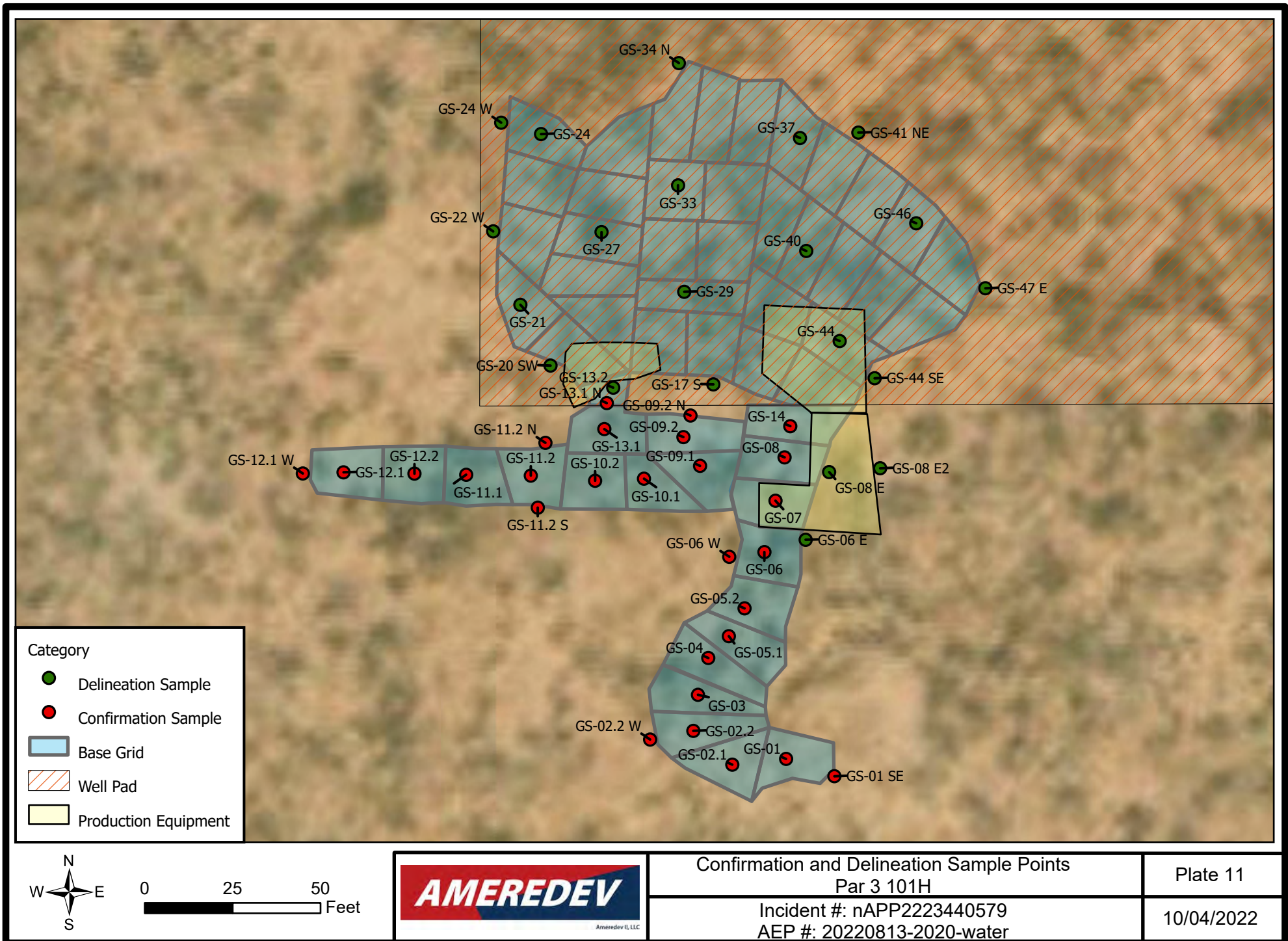
Plate 7

09/06/2022









Tables



Ameredev II, LLC

Sample Point	Latitude	Longitude
GS-01	32.16870872	-103.3110844
GS-01 SE	32.16869732	-103.3110469
GS-02.1	32.16870492	-103.3111263
GS-02.2	32.16872718	-103.3111566
GS-02.2 W	32.16872147	-103.3111903
GS-03	32.16875095	-103.3111531
GS-04	32.16877522	-103.3111145
GS-05.1	32.16878956	-103.3111129
GS-05.2	32.1688079	-103.3111168
GS-06	32.16884496	-103.3111013
GS-06 E	32.16885024	-103.31107
GS-06 W	32.16884187	-103.3111287
GS-07	32.16887881	-103.3110927
GS-08	32.16890735	-103.3110856
GS-08 E	32.16889768	-103.3110509
GS-08 E2	32.16890022	-103.3110112
GS-09.1	32.16890179	-103.3111514
GS-09.2	32.16892071	-103.3111644
GS-09.2 N	32.16893494	-103.3111589
GS-10.1	32.16889333	-103.3111951
GS-10.2	32.16889196	-103.3112331
GS-11.1	32.16889589	-103.3113335
GS-11.2	32.16889534	-103.3112832
GS-11.2 N	32.16891693	-103.3112718
GS-11.2 S	32.16887424	-103.3112777
GS-12.1	32.1688975	-103.311429
GS-12.1 W	32.16889675	-103.3114607
GS-12.2	32.16889666	-103.3113738
GS-13.1	32.16891966	-103.3112229
GS-13.1 N	32.1689431	-103.3112236
GS-13.2	32.16895221	-103.3112215
GS-14	32.1689279	-103.3110812
GS-17 S	32.16895544	-103.3111411
GS-20 SW	32.16896785	-103.3112678
GS-21	32.16900788	-103.3112913
GS-22 W	32.16905629	-103.3113124
GS-24	32.16912038	-103.3112752
GS-24 W	32.16912785	-103.3113062
GS-27	32.1690558	-103.3112281
GS-29	32.16901645	-103.3111638
GS-33	32.16908658	-103.3111685
GS-34 N	32.16916712	-103.3111679
GS-37	32.16911776	-103.3110736
GS-40	32.16904336	-103.3110687
GS-41 NE	32.16912133	-103.3110282
GS-44	32.16898401	-103.3110427
GS-44 SE	32.16895952	-103.3110155
GS-46	32.16906157	-103.3109831
GS-47 E	32.16901879	-103.3109293

October 4, 2022

Table B
Summary of Analytical

Incident ID: nAPP2223440579

Par 3 101 H Booster

AEP #: 20220813-2020-water

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	In Use (Yes/No)	EC (field) mS/cm	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	9/12/2022	2			Pasture	0.11	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-01 SE	9/12/2022		0	2	Pasture	0.15	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-02.1	9/12/2022	2			Pasture	0.1	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-02.2	9/12/2022	2			Pasture	0.11	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-02.2 W	9/12/2022		0	2	Pasture	0.08	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-03	9/12/2022	2			Pasture	0.09	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-04	9/12/2022	2			Pasture	0.11	16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-05.1	9/12/2022	2			Pasture	0.14	112	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-05.2	9/12/2022	2			Pasture	0.16	80	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-06	9/12/2022	2			Pasture	0.15	96	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-06 E	9/12/2022		0	2	Pasture	0.14	<16	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H224196
GS-06 W	9/12/2022		0	2	Pasture	0.05	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-07	9/12/2022	2			ROW	0.2	128	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-08	9/12/2022	2			ROW	0.15	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-08 E	9/12/2022		0	2	ROW	12.53	12100	<20	<30	<0.05	<0.30	Defer	Cardinal	H224196
GS-08 E2	9/12/2022		0	2	ROW	0.8	64	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H224196
GS-09.1	9/12/2022	4.2			ROW	2.99	4080	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-09.2	9/12/2022	4.2			ROW	0.75	848	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-09.2 N	9/12/2022		0	4	ROW	0.21	80	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-10.1	9/12/2022	4.2			ROW	5.29	7760	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-10.2	9/12/2022	4.2			ROW	0.55	352	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-11.1	9/9/2022	4.2			ROW	0.26	128	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224171
GS-11.2	9/9/2022	4.2			ROW	1.01	96	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224171
GS-11.2 N	9/12/2022		0	4	ROW	0.2	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-11.2 S	9/12/2022		0	4	ROW	0.2	80	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-12.1	9/9/2022	2			ROW	0.19	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224171
GS-12.1 W	9/9/2022		0	2	ROW	0.2	80	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224171
GS-12.2	9/9/2022	2			ROW	0.2	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224171
GS-13.1	9/12/2022	4.2			ROW	0.37	400	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-13.1 N	9/12/2022		0	4	Pad	2.39	4720	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-13.2	9/9/2022		0.5	2	Pad	2.42	1880	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224171
GS-13.2	9/9/2022		2	4	Pad	2.02	1440	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224171
GS-14	9/12/2022	2			ROW	0.11	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H224196
GS-17 S	9/8/2022		0	2	Pad	0.2	32	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H224140
GS-20 SW	9/8/2022		0	2	Pad	0.11	16	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H224140
GS-21	9/8/2022		0.5	2	Pad	3.24	4000	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-21	9/8/2022		2	4	Pad	1.88	1490	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-22 W	9/8/2022		0	2	Pad	0.19	48	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H224140
GS-24	9/8/2022		0.5	2	Pad	0.47	272	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-24	9/8/2022		2	4	Pad	0.2	64	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-24 W	9/8/2022		0	2	Pad	0.14	32	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H224140

October 4, 2022

Table B
Summary of Analytical

Incident ID: nAPP2223440579

Par 3 101 H Booster

AEP #: 20220813-2020-water

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	In Use (Yes/No)	EC (field) mS/cm	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-27	9/8/2022		0.5	2	Pad	1.32	960	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-27	9/8/2022		2	4	Pad	4.83	4080	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-27	9/8/2022		4	5	Pad	2.11	2120	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-29	9/8/2022		0.5	2	Pad	0.87	256	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-29	9/8/2022		2	4	Pad	0.9	464	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-33	9/8/2022		0.5	2	Pad	3.3	2800	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-33	9/8/2022		2	4	Pad	2.42	1720	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-34 N	9/8/2022		0	2	Pad	0.2	48	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H224140
GS-37	9/9/2022		0.5	2	Pad	1.71	1280	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224171
GS-37	9/9/2022		2	4	Pad	0.8	576	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224171
GS-40	9/8/2022		0.5	2	Pad	0.87	352	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-40	9/8/2022		2	4	Pad	1.27	1120	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224140
GS-41 NE	9/8/2022		0	2	Pad	0.14	16	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H224140
GS-44	9/9/2022		0.5	2	Pad	4.68	7600	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224171
GS-44	9/9/2022		2	4	Pad	2.03	1280	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224171
GS-44 SE	9/8/2022		0	2	Pad	0.11	32	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H224140
GS-46	9/9/2022		0.5	2	Pad	2.65	2200	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224171
GS-46	9/9/2022		2	4	Pad	0.44	240	<20	<30	<0.05	<0.30	Vertical Delineation	Cardinal	H224171
GS-47 E	9/8/2022		0	2	Pad	0.14	48	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H224140
BF-01 N	8/12/2022						<16	<20	<30	<0.05	<0.30	Backfill	Cardinal	H223699
BF-01 S	8/12/2022						<16	<20	<30	<0.05	<0.30	Backfill	Cardinal	H223699
Exceeds Closure Criteria														

Appendix A

Communications



Ameredev II, LLC

Andrew Parker

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Wednesday, September 7, 2022 10:05 AM
To: Andrew Parker
Cc: Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject: RE: [EXTERNAL] 48 Hour Sampling Notice nAPP2223440579

External (jennifer.nobui@state.nm.us)

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

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.

Thanks,
Jennifer Nobui

From: Andrew Parker <aparker@ameredev.com>
Sent: Wednesday, September 7, 2022 9:07 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Subject: [EXTERNAL] 48 Hour Sampling Notice nAPP2223440579

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

NMOCD,

Please accept this email as the 48 hour sampling notice for incident nAPP2223440579. Per verbal communication with Jennifer Nobui on 09/07/2022, NMOCD was notified of a change of remediation schedule. Remediation for subject release was expedited due to the installation of pipelines for oil and gas operations. Sampling will begin today, 09/07/2022.

Please contact me with any questions. Thank you,

AEP #: 20220813-2020-water
Location: Par Three 101 "Booster"

Andrew Parker
Environmental Scientist
970-570-9535



From: Andrew Parker
Sent: Monday, August 22, 2022 12:00 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: C-141 NOR nAPP2223440579 Par 3 101

NMOCD,

Attached is a copy of the C-141 NOR submitted via the online portal along with volume calculations. Please retain for your records.

Thank you.

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, August 22, 2022 12:16 PM
To: Andrew Parker <aparker@ameredev.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 136266

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#) nAPP2223440579, 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 nAPP2223440579, 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

Andrew Parker

From: Andrew Parker
Sent: Monday, August 22, 2022 1:00 PM
To: Enviro, OCD, EMNRD
Subject: C-141 NOR nAPP2223440579 Par 3 101
Attachments: C-141 NOR nAPP2223440579 with Calcs.pdf

NMOCD,

Attached is a copy of the C-141 NOR submitted via the online portal along with volume calculations. Please retain for your records.

Thank you.

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, August 22, 2022 12:16 PM
To: Andrew Parker <aparker@ameredev.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 136266

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#) nAPP2223440579, 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 nAPP2223440579, 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

FW: 24 hour notification of major release: Par 3 101H; 20220813-2020-water

Andrew Parker <aparker@ameredev.com>

Mon 8/15/2022 8:48 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Cc: Dayeed Khan <dkhan@ameredev.com>

NMOCD:

Please accept this email as the 24-hour notification of a "Major Release" per 19.15.29 NMAC.

Operator: Ameredev Operating

Location: Par Three 101H Production Site

Lat/Long: 32.1689789, -103.3110565

Unit Letter "M", Sec 31. T24S. R.36E

Surface: Fee

Cause: Leak at water transfer pump flange.

Time/Date: 20:20 hrs on 08/13/2022. Further release evaluation on 08/15/2022 determined that volume released was > 25 barrels.

Response:

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- All free liquids and recoverable materials have been removed and managed appropriately.

A C-141 Notification of Release will be submitted within 10-days along with volume calculations

Thank you,

Andrew Parker
Environmental Scientist
970-570-9535



Appendix B

Well Logs



Ameredeve II, LLC



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

July 8, 2022

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1919 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-1919 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DII SEP 30 2022 AM 10:58



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1919			
	WELL OWNER NAME(S) Ameredev Operating, LLC				PHONE (OPTIONAL) 737-300-4700			
	WELL OWNER MAILING ADDRESS 2901 Via Fortuna Suite 600				CITY Austin	STATE TX	ZIP 78746	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 10	SECONDS 8.46 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	18	40.42 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW L4 Sec.31 T24S R36S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 9/20/22	DRILLING ENDED 9/20/2022	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) 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) n/a	DATE STATIC MEASURED 9/26/2022		
	DRILLING FLUID: <input 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) FROM TO		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)
	0 101		±6.25"	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		

OSE ON SEP 30 2022 10:58

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



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-1919

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: 9/26/2022 Date well plugging concluded: 9/26/2022
- 5) GPS Well Location: Latitude: 32 deg, 10 min, 8.46 sec
Longitude: 103 deg, 18 min, 40.42 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 101 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: 9/12/2022
- 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):

USE OCT SEP 30 2022 AM 10:53

- For each interval plugged, describe within the following columns:**

Released to Imaging: 11/9/2022 12:33:46 PM

2_CP-1919_WellLog-packet-forsign-DTW-1

Final Audit Report

2022-09-29

Created:	2022-09-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAADfQXFqE5RRxScAG5FWRU5kJ1m2bXeDK

"2_CP-1919_WellLog-packet-forsign-DTW-1" History



Document created by Lucas Middleton (lucas@atkinseng.com)

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2022-09-29 - 9:21:22 PM GMT



Email viewed by Jack Atkins (jack@atkinseng.com)

2022-09-29 - 9:23:30 PM GMT- IP address: 64.90.153.232



Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2022-09-29 - 9:23:50 PM GMT - Time Source: server- IP address: 64.90.153.232



Agreement completed.

2022-09-29 - 9:23:50 PM GMT

OSE DTI SEP 30 2022 AM 10:59



Adobe Acrobat Sign

Appendix C

Certificates of Analysis



Ameredeve II, LLC



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

September 14, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: PAR 3 101 BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 09/08/22 16:52.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 17S 0-2' (H224140-01)

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	09/13/2022	ND	2.04	102	2.00	7.30	
Toluene*	<0.050	0.050	09/13/2022	ND	2.02	101	2.00	6.13	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.3	2.00	7.80	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.14	102	6.00	7.64	
Total BTEX	<0.300	0.300	09/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	32.0	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 86.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 21 0.5-2' (H224140-02)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	4000	16.0	09/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	195	97.5	200	0.170	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	206	103	200	0.238	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 21 2-4' (H224140-03)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	1490	16.0	09/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 20SW 0-2' (H224140-04)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 22W 0-2' (H224140-05)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 24 0.5-2' (H224140-06)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEx	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	272	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 24 2-4' (H224140-07)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.6 % 46.3-178

Cardinal Laboratories

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 24W 0-2' (H224140-08)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.4 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 27 0.5-2' (H224140-09)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEx	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	960	16.0	09/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 27 2-4' (H224140-10)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	4080	16.0	09/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 27 4-5' (H224140-11)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEx	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	2120	16.0	09/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 29 0.5-2' (H224140-12)

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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTEx	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	256	16.0	09/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 29 2-4' (H224140-13)

BTX 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	09/13/2022	ND	2.00	99.8	2.00	10.7		
Toluene*	<0.050	0.050	09/13/2022	ND	2.36	118	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	2.35	118	2.00	13.5		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	7.28	121	6.00	14.7		
Total BTX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	464	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 33 0.5-2' (H224140-14)

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	09/13/2022	ND	2.00	100	2.00	14.9		
Toluene*	<0.050	0.050	09/13/2022	ND	1.95	97.6	2.00	12.9		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.5	2.00	11.6		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.93	98.8	6.00	10.2		
Total BTEx	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2800	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 78.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 33 2-4' (H224140-15)

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	09/13/2022	ND	2.00	100	2.00	14.9		
Toluene*	<0.050	0.050	09/13/2022	ND	1.95	97.6	2.00	12.9		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.5	2.00	11.6		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.93	98.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1720	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 34N 0-2' (H224140-16)

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	09/13/2022	ND	2.00	100	2.00	14.9		
Toluene*	<0.050	0.050	09/13/2022	ND	1.95	97.6	2.00	12.9		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.5	2.00	11.6		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.93	98.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	48.0	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 65.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.0 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 40 0.5-2' (H224140-17)

BTX 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	09/13/2022	ND	2.00	100	2.00	14.9		
Toluene*	<0.050	0.050	09/13/2022	ND	1.95	97.6	2.00	12.9		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.5	2.00	11.6		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.93	98.8	6.00	10.2		
Total BTX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	352	16.0	09/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 40 2-4' (H224140-18)

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	09/13/2022	ND	2.00	100	2.00	14.9		
Toluene*	<0.050	0.050	09/13/2022	ND	1.95	97.6	2.00	12.9		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.5	2.00	11.6		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.93	98.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1120	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 41 NE 0-2' (H224140-19)

BTX 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	09/13/2022	ND	2.00	100	2.00	14.9		
Toluene*	<0.050	0.050	09/13/2022	ND	1.95	97.6	2.00	12.9		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.5	2.00	11.6		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.93	98.8	6.00	10.2		
Total BTX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 70.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 44 SE 0-2' (H224140-20)

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	09/13/2022	ND	2.00	100	2.00	14.9		
Toluene*	<0.050	0.050	09/13/2022	ND	1.95	97.6	2.00	12.9		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.5	2.00	11.6		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.93	98.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	32.0	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 57.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 63.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 47 E 0-2' (H224140-21)

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	09/13/2022	ND	2.00	100	2.00	14.9		
Toluene*	<0.050	0.050	09/13/2022	ND	1.95	97.6	2.00	12.9		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.5	2.00	11.6		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	5.93	98.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	09/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	250	125	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	244	122	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.8 % 46.3-178

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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.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ameridev Project Manager: Andrew Parker Address: On-File City: State: Zip: Phone #: Fax #: Project #: Project Name: 20220813-2020-water Project Location: for 3 101 Booster Sample Name: Jacob Saenz		P.O. #: 20220813-2020-water Company: AEP Attn: Send to Address: aparker@ City: ameridev.com State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D. Sample I.D.		BILL TO ANALYSIS REQUEST	
1 GS-175 0-2 FET 2 GS-21 0.5-2 FET 3 GS-21 2-4 FET 4 GS-20SW 0-2 FET 5 GS-22W 0-2 FET 6 GS-24 0.5-2 FET 7 GS-24 2-4 FET 8 GS-24W 0-2 FET 9 GS-27 0.5-2 FET 10 GS-27 2-4 FET		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
DATE TIME		DATE TIME	
CHLORIDE TPH (GRO+DRO+MRO) BENZENE, BTEX		CHLORIDE TPH (GRO+DRO+MRO) BENZENE, BTEX	
Relinquished By: 39005 S01EN 2 Date: 9-8-22 Time: 1652 Received By: [Signature] Date: [Blank] Time: [Blank]		REMARKS: Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: [Blank] Add'l Fax #: [Blank]	



ANALYSIS REQUEST

Page 25 of 26

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 26 of 26



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

September 14, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: PAR 3 101 BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 09/09/22 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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 11.1 4.2' (H224171-01)

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	09/14/2022	ND	1.97	98.6	2.00	6.01		
Toluene*	<0.050	0.050	09/14/2022	ND	2.27	113	2.00	6.05		
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.28	114	2.00	9.66		
Total Xylenes*	<0.150	0.150	09/14/2022	ND	7.14	119	6.00	10.8		
Total BTEX	<0.300	0.300	09/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	128	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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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:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 11.2 4.2' (H224171-02)

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	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	96.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 12.1 2' (H224171-03)

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	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	64.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 12.1 W 0-2' (H224171-04)

BTX 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	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	80.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 12.2 2' (H224171-05)

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	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	48.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 13.2 0.5-2' (H224171-06)

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	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	1880	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 13.2 2-4' (H224171-07)

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	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTEx	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	1440	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 37 0.5-2' (H224171-08)

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	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	1280	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 37 2-4' (H224171-09)

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	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	576	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.3 % 46.3-178

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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:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 44 0.5-2' (H224171-10)

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	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	7600	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 44 2-4' (H224171-11)

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	09/13/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/13/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.01	100	6.00	2.01		
Total BTEX	<0.300	0.300	09/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	1280	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	213	107	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	234	117	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 46 0.5-2' (H224171-12)

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	09/14/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/14/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.01	100	6.00	2.01		
Total BTEx	<0.300	0.300	09/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	2200	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	239	119	200	2.65	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	230	115	200	8.87	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 95.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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:	09/09/2022	Sampling Date:	09/04/2022
Reported:	09/14/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 46 2-4' (H224171-13)

BTX 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	09/14/2022	ND	1.97	98.5	2.00	5.27		
Toluene*	<0.050	0.050	09/14/2022	ND	1.96	98.2	2.00	3.27		
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.93	96.7	2.00	3.21		
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.01	100	6.00	2.01		
Total BTX	<0.300	0.300	09/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	240	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	239	119	200	2.65	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	230	115	200	8.87	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Amerev

Project Manager: Andrew Parker

Address: On-File

City:

State:

Zip:

Phone #:

Fax #:

Project #:

Project Name: 20220813-2030-water

Project Location: Par 3 101 Bester

Sampler Name: Jacob Saenz

BILL TO

P.O. #: 20220813-2030-water

Company: AEP

Attn: Send to

Address: aparker@

City: amerev.com

State:

Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	CHLORIDE	TPH (GRO+DRO+MRO)	BENZENE, BTEX
H224171	GS-11.1	4.2FT	C	1			9/14/2022	8:30am	X	X	X
1	GS-11.2	4.2FT									
2	GS-12.1	2FT									
3	GS-12.1W	0-2FT									
4	GS-12.2	2FT									
5	GS-13.2	0.5-2FT									
6	GS-13.2	2-4FT									
7	GS-37	2-4FT									
8	GS-37	2-4FT									
9	GS-44	0.5-2FT									
10											

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Relinquished By: SAENZ

Relinquished By: SAENZ

Relinquished By: SAENZ

Relinquished By: SAENZ

Relinquished By: SAENZ

Relinquished By: SAENZ

Relinquished By: SAENZ

Relinquished By: SAENZ

Relinquished By: SAENZ

Delivered By: (Circle One)	-0.4°C/-1.0°C	Sample Condition	CHECKED BY: (Initials)
cooler - UPS - Bus - Other:	#113	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Relinquished By: <u>SAENZ</u>	Time: <u>10:26</u>	Received By: <u>Amerev</u>	Time: <u></u>

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>AmereDev</u>		BILL TO	
Project Manager: <u>Andrew Parker</u>		P.O. #: <u>2020813-2020-water</u>	
Address: <u>On-File</u>		Company: <u>ABP</u>	
City:	State:	Attn:	Send to
Phone #:	Fax #:	Address: <u>aparker@ameredev.com</u>	
Project #:		City:	State:
Project Name: <u>2020813-2020-water</u>		Zip:	
Project Location: <u>Par 3 101 Bwy 51st</u>		Phone #:	
Sampler Name: <u>Jacob Saenz</u>		Fax #:	
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	
		# CONTAINERS	
<u>#22471</u>	<u>65-44</u> <u>2-45-T</u> <u>12 65-46</u> <u>9.5-25-T</u> <u>13 65-46</u> <u>2-45-T</u>	GROUNDWATER	WASTEWATER
		SOIL	SLUDGE
		OTHER:	ACID/BASE:
		ICE / COOL	OTHER:
		DATE	TIME
		CHLORIDE	TPH (GRO+DRO+MRO)
		BENZENE, BTEX	
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Relinquished By: <u>30005 ABN2</u>	Date: <u>9-22-22</u>	Received By: <u>Juanita Delgado</u>	Time: <u>7:26</u>
Delivered By: (Circle One)	Time:	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other: <u>-0.42-1.02</u>	Time:	Coil Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>V.S.</u>
REMARKS:			



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

September 17, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: PAR 3 101 BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 09/12/22 16:27.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 01 2' (H224196-01)

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	09/15/2022	ND	2.04	102	2.00	5.64	
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	4.98	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.99	99.6	2.00	5.42	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.18	103	6.00	5.36	
Total BTEX	<0.300	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 01 SE 0-2' (H224196-02)

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	09/15/2022	ND	2.04	102	2.00	5.64		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.99	99.6	2.00	5.42		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.18	103	6.00	5.36		
Total BTEX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.2 % 46.3-178

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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:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 02.1 2' (H224196-03)

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	09/15/2022	ND	2.04	102	2.00	5.64		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	4.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.99	99.6	2.00	5.42		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.18	103	6.00	5.36		
Total BTEX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	32.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 89.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.5 % 46.3-178

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:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 02.2 2' (H224196-04)

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	09/15/2022	ND	1.94	97.1	2.00	3.89		
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71		
Total BTEX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 74.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.4 % 46.3-178

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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:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 02.2 W 0-2' (H224196-05)

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	09/15/2022	ND	1.94	97.1	2.00	3.89		
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71		
Total BTEX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.5 % 46.3-178

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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:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 03 2' (H224196-06)

BTX 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	09/16/2022	ND	1.87	93.5	2.00	2.91		
Toluene*	<0.050	0.050	09/16/2022	ND	1.89	94.5	2.00	2.52		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	1.83	91.6	2.00	2.28		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	5.71	95.2	6.00	2.37		
Total BTX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	48.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 81.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 04 2' (H224196-07)

BTX 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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 05.1 2' (H224196-08)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 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	112	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.3 % 46.3-178

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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 05.2 2' (H224196-09)

BTX 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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	80.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 06 2' (H224196-10)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEx	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 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	96.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 06 W 0-2' (H224196-11)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 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	32.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	178	88.9	200	5.68	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	173	86.7	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.5 % 46.3-178

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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:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 06 E 0-2' (H224196-12)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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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:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 07 2' (H224196-13)

BTX 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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	128	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 08 2' (H224196-14)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEx	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	48.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 08 E 0-2' (H224196-15)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	12100	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 09.1 4.2' (H224196-16)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEx	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	4080	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 09.2 4.2' (H224196-17)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	848	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 09.2 N 0-4' (H224196-18)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEx	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	80.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 10.1 4.2' (H224196-19)

BTX 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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	7760	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 10.2 4.2' (H224196-20)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	352	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.8 % 46.3-178

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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:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 11.2 N 0-4' (H224196-21)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.4 % 46.3-178

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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:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 11.2 S 0-4' (H224196-22)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	80.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.8 % 46.3-178

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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:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 13.1 4.2' (H224196-23)

BTX 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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 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	400	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 13.1 N 0-4' (H224196-24)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	4720	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	228	114	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	241	121	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.2 % 46.3-178

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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:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 14 2' (H224196-25)

BTX 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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	32.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	174	86.8	200	2.99	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	190	95.1	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/17/2022	Sampling Type:	Soil
Project Name:	PAR 3 101 BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220813-2020-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: GS - 08 E2 0-2' (H224196-26)

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	09/16/2022	ND	1.88	93.8	2.00	1.11		
Toluene*	<0.050	0.050	09/16/2022	ND	2.22	111	2.00	4.35		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.15	108	2.00	4.42		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.64	111	6.00	4.04		
Total BTEX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	64.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	174	86.8	200	2.99	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	190	95.1	200	0.0457	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

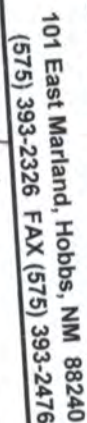
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

Page 29 of 31



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amender</u>				Project Manager: <u>Andrew Perley</u>				Address: <u>on file</u>				City: _____				State: _____				Zip: _____			
Phone #: _____				Fax #: _____				Project Owner: _____				City: _____				Address: _____							
Project #: _____				Project Name: <u>20220813-2020 water</u>				State: _____				Zip: _____											
Project Location: <u>Par 3 101 boggy</u>				Phone #: _____				Fax #: _____				City: _____											
Sampler Name: <u>THAD SPENZ</u>				FOR LAB USE ONLY				Matrix:				Preserv:				Sampling:							
Lab I.D.				Sample I.D.				(G)RAB OR (C)OMP.				# CONTAINERS				GROUNDWATER							
WASTEWATER				SOIL				OIL				SLUDGE				OTHER:							
ACID/BASE:				ICE / COOL				OTHER:				DATE				TIME							
11				65-06w				0-2FT				9/19/02				9:15m							
12				65-06E				0-2FT				9/20m				9:30m							
13				65-07				2FT				9:40m				10:00m							
14				65-08				2FT				10:10m				10:25m							
15				65-08E				0-2FT				10:40m				10:55m							
16				65-09.1				4.2FT				11:15m											
17				65-09.2				4.2FT															
18				65-09.2N				0-4FT															
19				65-10.1				4.2FT															
20				65-10.2				4.2FT															

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Relinquished By: THAD SPENZ **Date:** 9-12-22 **Received By:** Janet Delaney

Relinquished By: _____ **Date:** _____ **Received By:** _____

Turnaround Time: _____ **Standard** ☒ **Rush** ☐ **Bacteria (only)** ☐ **Sample Condition** ☐ **Observed Temp. °C** _____ **Corrected Temp. °C** _____

Thermometer ID #113 ☐ **Correction Factor -0.5°C** ☐ **Corrected Temp. °C** _____

Remarks: _____

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:** _____

All Results are emailed. Please provide Email address: _____



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pineider</u> Project Manager: <u>Andrew Parker</u> Address: <u>on file</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Location: <u>Per 3 101 Boogher</u> Sample Name: <u>SPB10M SPEN Z</u> <small>FOR LAB USE ONLY</small>						BILL TO P.O. #: <u>2020013-2020-wrkr</u> Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____						ANALYSIS REQUEST													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	MATRIX			PRESERV	SAMPLING														
							GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME								
H22H9L	65-11.2N	0-4FT	C	1	X											9/19/20	11:30am	Chloride							
31	65-11.2S	0-4FT														11/4/20	11:50am	TPH (Grout Drift)							
32	65-13.1	4.2FT														12/1/20	12:10pm								
33	65-13.1N	0-4FT														12/1/20	12:10pm								
34	65-14	2FT														12/20/20	12:20pm								
35	65-08 E2	0-2FT	V																						
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Relinquished By: <u>SAOB Spine</u> Date: <u>8-12-22</u> Time: <u>16:27</u> Date: _____ Received By: <u>Melissa Delatorre</u> Time: _____						Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____						REMARKS: _____													
Reinquinshed By: _____ Date: _____ Received By: _____ Time: _____						Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Bacteria (only) Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Corrected Temp. °C						Checked By: <u>(initials)</u> <u>TD</u> Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com													



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

August 15, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: SUNOCO

Enclosed are the results of analyses for samples received by the laboratory on 08/12/22 16:39.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

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:	08/12/2022	Sampling Date:	08/12/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	SUNOCO	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SUNOCO PAD		

Sample ID: BF - 01 N (H223699-01)

BTX 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	08/15/2022	ND	2.03	101	2.00	0.364	
Toluene*	<0.050	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	6.00	100	6.00	1.75	
Total BTX	<0.300	0.300	08/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	08/15/2022	ND	448	112	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	08/15/2022	ND	212	106	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	217	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 43-149

Surrogate: 1-Chlorooctadecane 81.3 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/12/2022
 Reported: 08/15/2022
 Project Name: SUNOCO
 Project Number: NOT GIVEN
 Project Location: SUNOCO PAD

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BF - 01 S (H223699-02)

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	08/15/2022	ND	2.03	101	2.00	0.364	
Toluene*	<0.050	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	6.00	100	6.00	1.75	
Total BTEX	<0.300	0.300	08/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/15/2022	ND	448	112	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	08/15/2022	ND	212	106	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	217	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 111 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Celey D. Keene, Lab Director/Quality Manager

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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

COMMENTS

Action 150966

COMMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 150966
	Action Type: [C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
jharimon	No Initial C-141 submitted	10/14/2022

District I

1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 150966

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 150966
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. The OCD will not close a release, where contaminants are left in place, due to close proximity to equipment. The incident will only be closed after all contaminated soil has been remediated to meet OCD Spill Rule Standards.	11/9/2022