



Ameredev II, LLC

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

August 2, 2024 (revised)

New Mexico Environmental Department
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Site Characterization, Remediation Activities and Deferral Request
Incident ID: nAPP2331355540
Proj. ID #: 20230926-1130-prodops
Location: Red Bud CTB

NMOCD:

Ameredev II, LLC submits this revised site characterization, report of remediation activities and deferral request for the above referenced incident.

This revision addresses the June 7th, 2024 rejection:

- **Deferral request denied. Deferrals should be requested after carrying out all remediation. Spill areas outside of the containment need to be fully delineated and remediated. Remediate the area outside of the containment and then submit your deferral request stating which samples points are being requested for deferral with your closure report.**

As included in the below text the area outside of the containment (subject of the deferral request denial) has been remediated (hydrovac'd) and confirmation delineation soil samples collected (Section 2). The deferral request in Section 4 has been updated to reflect remediation efforts.

A final liner inspection was performed on July 31, 2024 and discussed in Section 3. Communications are included in Appendix A and photo documentation of the final liner inspection is in Appendix D.

Incident ID: nAPP2331355540
Proj. ID #: 20230926-1130-prodops
Location: Red Bud CTB

The release was discovered on September 26, 2023 when a small area of impacted soil was identified adjacent to the secondary containment for Red Bud CTB (Figure 1). Initial assessment calculations indicated that the volume of the release was less than 5 bbls. The impacted area measured approximately 32 square feet. On October 10, 2023; approximately 2 cubic yards of impacted material was excavated and hauled off-site for proper disposal. No fluids were noted within the containment. The release was reported as a major release (unknown volume of oil) on 11/09/2023 when further investigation into the source of the release identified impacted soil beneath the liner of the secondary containment. Two suspect storage tanks were emptied and assessed for structural integrity. As of August 2, 2024; the suspect storage tanks remain out-of-service.

Figure 1: View of release facing northeast from south of the tank battery.
Date Taken: 2023-09-26 11:30:30. GPS: 32.0771091, -103.2871120.



Communications regarding release notification, extension request and sample event notifications are included in Appendix A.

1. Characterization

The following table and sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to Plates 2-9 for verification of setback criteria.

1.1. Site Map

Plate 1 shows the release extent relative to the production site, tank battery containment, pipelines, and utilities. The coordinates of the source are 32.077106, -103.287116 (Lat, Long; NAD83). The release extent outside of the tank battery containment measured approximately 32 square feet.

08/02/2024 (revised)

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Incident ID: nAPP2331355540
 Proj. ID #: 20230926-1130-prodops
 Location: Red Bud CTB

Site Characterization		
What is the shallowest depth to groundwater (ft bgs)	Plate 2	>101 ft, 463 ft NE of release
What measure was used to determine this?		Direct
Did this release impact ground or surface water?		No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
• A continuously flowing watercourse or any other significant watercourse	Plate 4	0.86 mi to the east
• Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	Plate 4	1.67 mi to the north
• An occupied permanent residence, school, hospital, institution or church	Plate 5	Ranch 2.6 miles to the SE
• A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes	Plate 3	2276 ft (0.44 mi.) to east NE – stock tank
• Any other fresh water well or spring	Plate 3	2276 ft (0.44 mi.) to east NE – stock tank
• Incorporated municipal boundaries or a defined municipal fresh water well field	Plate 3	3.1 miles to the SW
• A wetland	Plate 6	1.67 mi to the north
• A subsurface mine	Plate 7	>5 miles
• A (non-karst) unstable area		>5 miles
• Categorize the risk of this well/site being in a karst geology	Plate 8	Low
• A 100-year floodplain	Plate 9	6.36 miles to the NE
Did the release impact areas not on an exploration, development, production, or storage site?		No

1.2. Depth to Ground Water

The nearest depth-to-water measurement, dated 09/26/2022, relative to the release extent, is mapped on Plate 2. This borehole has been plugged. The Office of the State Engineer well log is attached in Appendix B:

- MISC-410 (CP-1922 POD 1) is located 463 ft east of the release. Depth to water is greater than 101 feet below ground surface.

08/02/2024 (revised)

Incident ID: nAPP2331355540
Proj. ID #: 20230926-1130-prodops
Location: Red Bud CTB

1.3. Soil/Waste Characteristics

The release occurred in an area where depth to water is greater than 100 ft below ground surface (bgs) on a well pad in use for oil and gas production.

The USDA Natural Resources Conservation Service (NRCS) soil survey¹ describes the upper 5-feet of lithology as Pyote soils and Dune land with 0-3 percent slope:

Description of Pyote

- A - 0 to 30 inches: fine sand
- Bt - 30 to 60 inches: fine sandy loam

Description of Dune land

- A - 0 to 6 inches: fine sand
- C - 6 to 60 inches: sandy loam

The lithology as described by the NRCS is consistent with observed lithology during remediation activities.

1.4 Site Delineation

Ameredev initiated site characterization sampling within the tank battery containment on 11/8/2023, along with efforts to further identify the source of the release. Sample ports were made with small cuts into the liner and the liner was immediately repaired once sample obtained. Horizontal delineation within the tank containment was limited due to the location of production equipment, and limitations of tools that could be used in available space. Further sampling was terminated when source of release (compromised tanks) was identified to limit further impact to integrity of liner or require facility deconstruction. Vertical delineation in this area was further limited by hand auger refusal. Plate 10 identifies sample points where *vertical delineation demonstrated decreased concentration of constituents of concern with depth*.

Horizontal delineation sampling outside of the tank containment occurred on 3/1/2024 and met the most stringent closure criteria per Table 1 of 19.15.29 NMAC, demonstrating the release did not extend off-site. The release extent outside of the containment (identified on Plate 1) was further delineated during remediation.

- Sample point coordinates are located in Table A
- Summary of Analytical is shown in Table B
- Characterization/delineation sample point locations within the containment are shown in Plate 10
- Horizontal delineation sample point locations outside of the containment are shown in Plate 11

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

Incident ID: nAPP2331355540
Proj. ID #: 20230926-1130-prodops
Location: Red Bud CTB

Closure Criteria for releases on-site, where depth to water is > 100 ft; closure criteria per Table 1 of 19.15.29 NMAC are:

- 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

2. Remediation Activities

Ameredev initiated and completed remediation activities on 07/17/2024. The release area outside of the tank battery was excavated to a depth of 5 ft utilizing hydrovac equipment. Confirmation sampling was completed on 07/17/2024 (Sample event notification located in Appendix A). Base and wall confirmation samples were obtained using a 5 point composite sample technique. All sample grids were less than a 200 sq foot surface area. For vertical delineation within the base grid area, a hand auger was utilized to obtain a discrete grab sample at 6.5 ft. All samples were analyzed for constituents of concern as listed on Table 1 of 19.15.29 NMAC.

BS-01, WS-01, WS-02, and WS-03 met the closure criteria for releases on site and currently in use for oil and gas operations where depth to water is > 100 ft; closure criteria per Table 1 of 19.15.29 NMAC as defined above.

The north wall, WS-04, which underlies the tank battery containment wall, exceeds the above closure criteria. Ameredev respectfully asks NMOCD for a deferral as remediation would cause a major facility deconstruction. The deferral request is presented in Section 4.

- Plate 12 shows base grid with associated square footage and location of confirmation samples.
- Plate 13 shows the excavation extent and depth.
- Table A shows the sample point coordinates.
- Table B shows summary of analytical.

The area was backfilled with clean soil and the surface was compacted, contoured, and restored as an in-use production site. Backfill analytical is included in Table B.

Figure 2 shows the excavation extent and Figure 3 shows the surface restoration.

Incident ID: nAPP2331355540
 Proj. ID #: 20230926-1130-prodops
 Location: Red Bud CTB



Figure 2: View of excavation extent



Figure 3: View of location after restoration

Remediation Plan	
Requesting a remediation plan approval with this submission?	Yes
Have the lateral and vertical extents of the contamination been fully delineated (<i>attach report demonstrating lateral and vertical extents</i>)?	Yes – Within the limits of access to the deferral area
Was this release entirely contained within a lined containment area?	No
Soil Contamination Sampling (Highest observable value for each in mg/kg)	
• Chloride	3000
• TPH (DRO+GRO+MRO)	18410
• GRO+DRO	16630
• BTEX	169
• Benzene	2.04
On what estimated date will the remediation commence	July 17, 2024
On what date will (or did) the final sampling or liner inspection occur	July 31, 2024

08/02/2024 (revised)

Released to Imaging: 8/12/2024 4:08:53 PM

Incident ID: nAPP2331355540
 Proj. ID #: 20230926-1130-prodops
 Location: Red Bud CTB

On what date will (or was) the remediation completed	July 17, 2024
What is the estimated surface area (in square feet) that will be reclaimed	32
What is the estimated volume (in cubic yards) that will be reclaimed	6
What is the estimated surface area (in square ft) that will be remediated	32
What is the estimated volume (in cubic yards) that will be remediated	6
The remediation will (or is expected to) utilize the following processes to remediate/reduce contaminants:	
<ul style="list-style-type: none"> Excavation and off-site disposal 	Yes – Lea Land

The 2 storage tanks identified as the source of release have been taken out of service and remain in place.

3. Liner Inspection

Final liner inspection was performed on July 31, 2024 (Liner inspection notification is located in Appendix A). Liner repairs from the November 8th and 14th characterization sampling within the containment are maintaining their respective liner repair integrities. Photo documentation of the liner repairs is provided in Appendix D.

4. Deferral Request

Ameredev respectfully requests deferral of impacted areas within the footprint of the Red Bud CTB containment (S-01 – S-18) and the north wall of the remediated area (WS-04). This area meets the criteria for deferral request as defined in 19.15.29.12.C.(2):

- On an active production site for oil and gas operations.
- 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.

Remediating around this production equipment (Figure 4) could cause structure instability resulting in major facility deconstruction and the interruption of oil and gas production. Analytical results providing horizontal and vertical delineation in the 4 cardinal directions

08/02/2024 (revised)



Incident ID: nAPP2331355540
 Proj. ID #: 20230926-1130-prodops
 Location: Red Bud CTB

around the CTB containment met the most stringent closure criteria for constituents of concern. (CS-North, CS-East, CS-South and CS-West).



Figure 4: Production equipment relative to base grid B-01. The right edge of G-01 (red polygon) represents the north wall (CS-North). One of the compromised tanks (source) is the left tank. Date: 03/18/2024. 32.0770941, -103.2869911.

Deferral Request	
Requesting a deferral of the remediation closure due date with approval of this submission?	Yes
Have the lateral and vertical extents of the contamination been fully delineated?	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction?	Yes
What is the remaining surface area (in sq ft) that will still need to be remediated if deferral is granted?	2200 square ft
What is the remaining volume (in cubic yards) what still needs to be remediated if the deferral is granted?	162 (presumed average depth of 2 ft)
Enter the facility ID on which this deferral should be granted	fAPP2203928043
Contamination does not cause an imminent risk to human health, the environment or groundwater.	True

08/02/2024 (revised)

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Location: Red Bud CTB

5. Surface Restoration

The release extent outside of the CTB containment was restored per 19.15.29.13. A-C NMAC to prior condition as an active production site (Figure 3, above). The impacted area adjacent to, and within the tank battery footprint will be remediated, restored and reclaimed per 19.15.29.13.A-D when the tank battery is decommissioned and no longer in-use for oil and gas operations.

Sincerely,



Andrew Parker
Environmental Scientist

08/02/2024 (revised)

Released to Imaging: 8/12/2024 4:08:53 PM

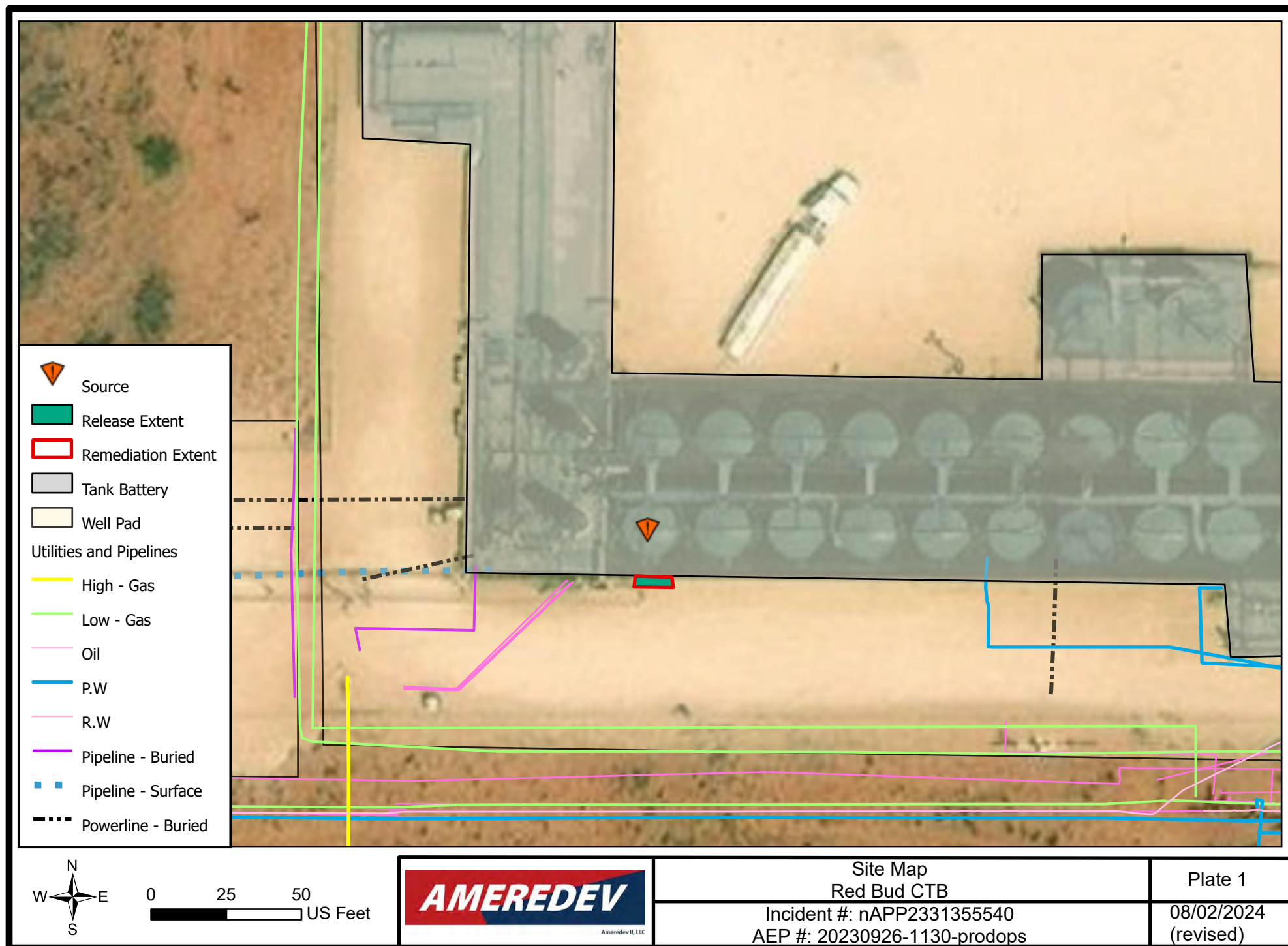


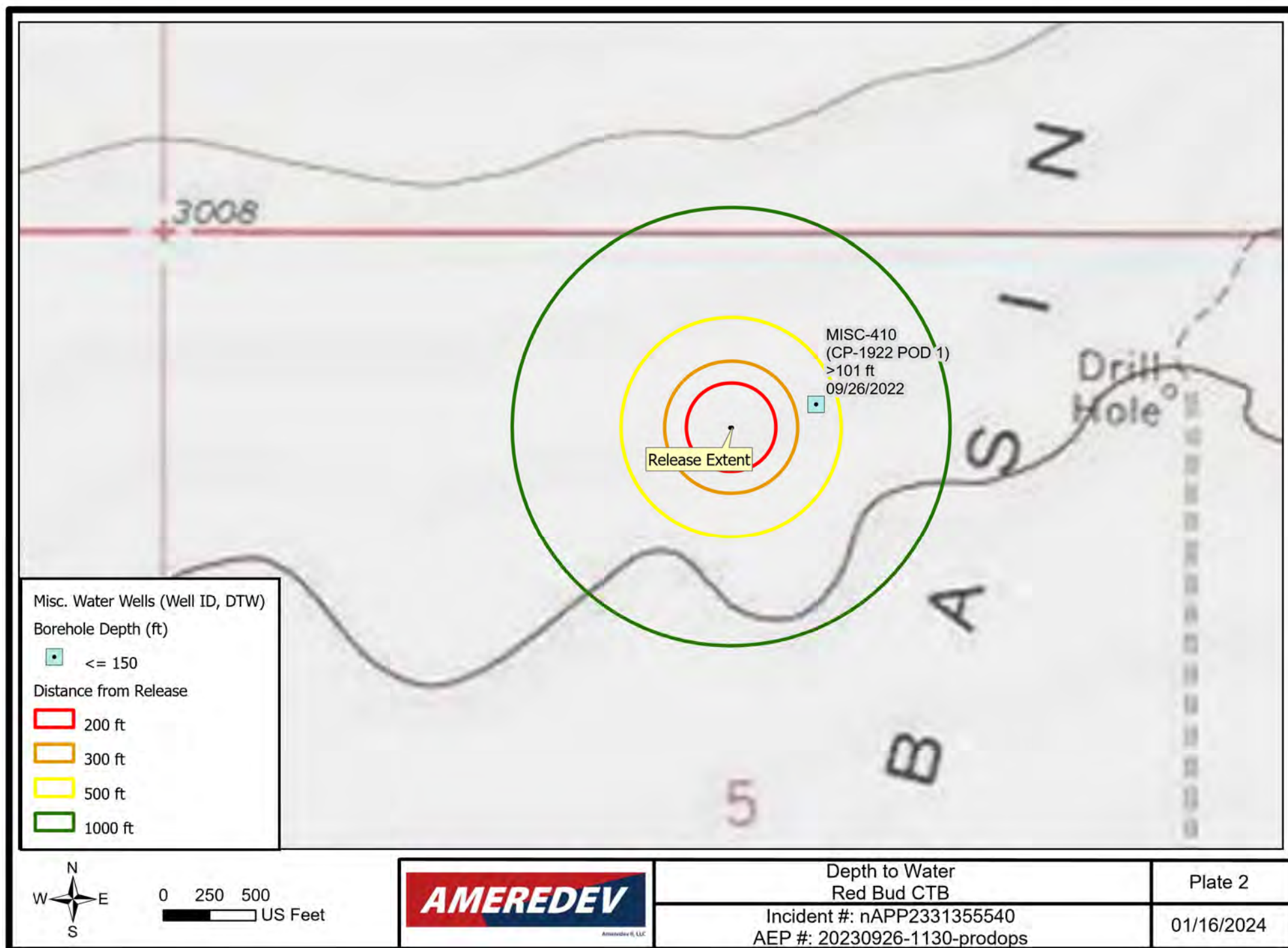
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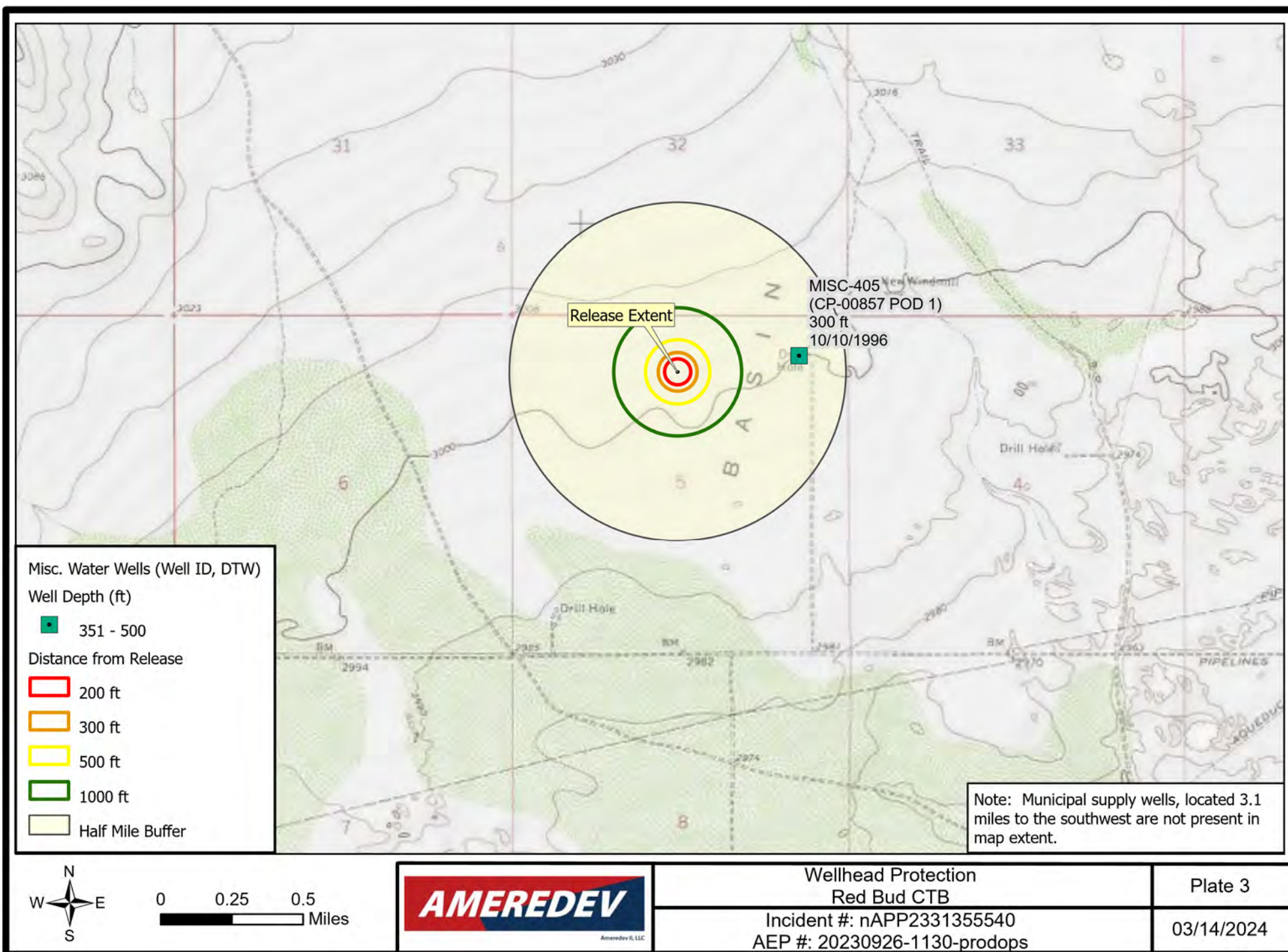
Plates

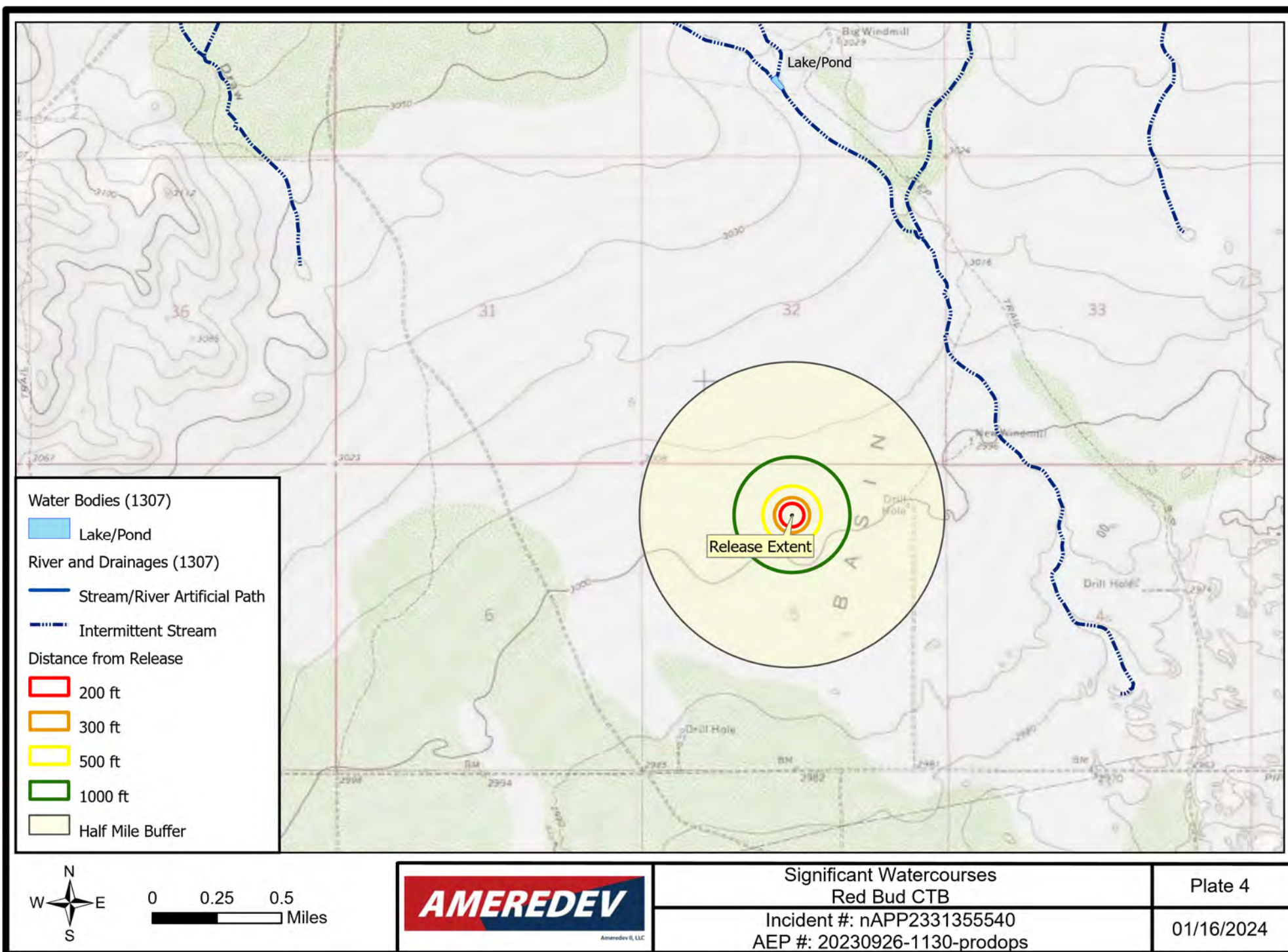


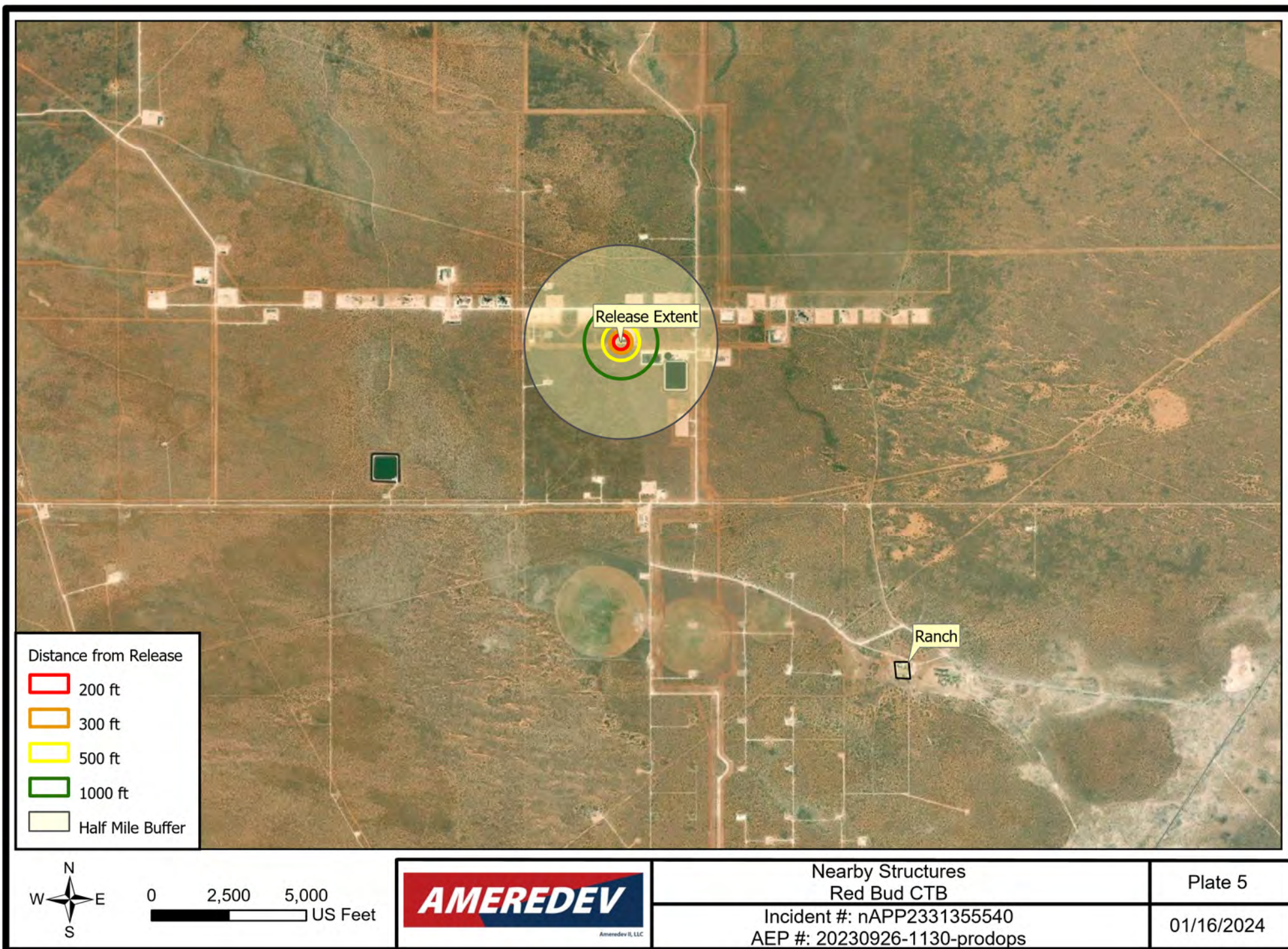
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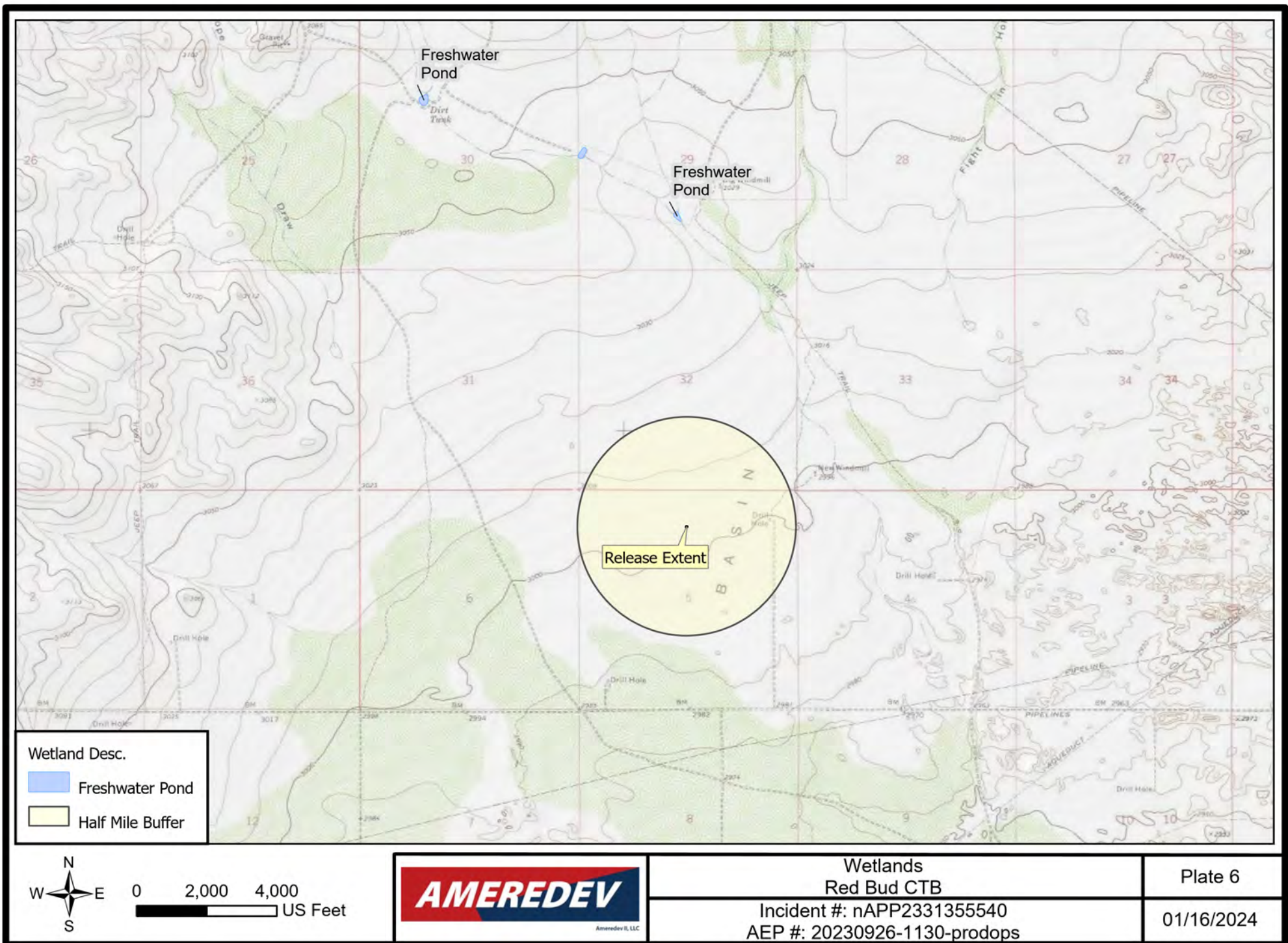


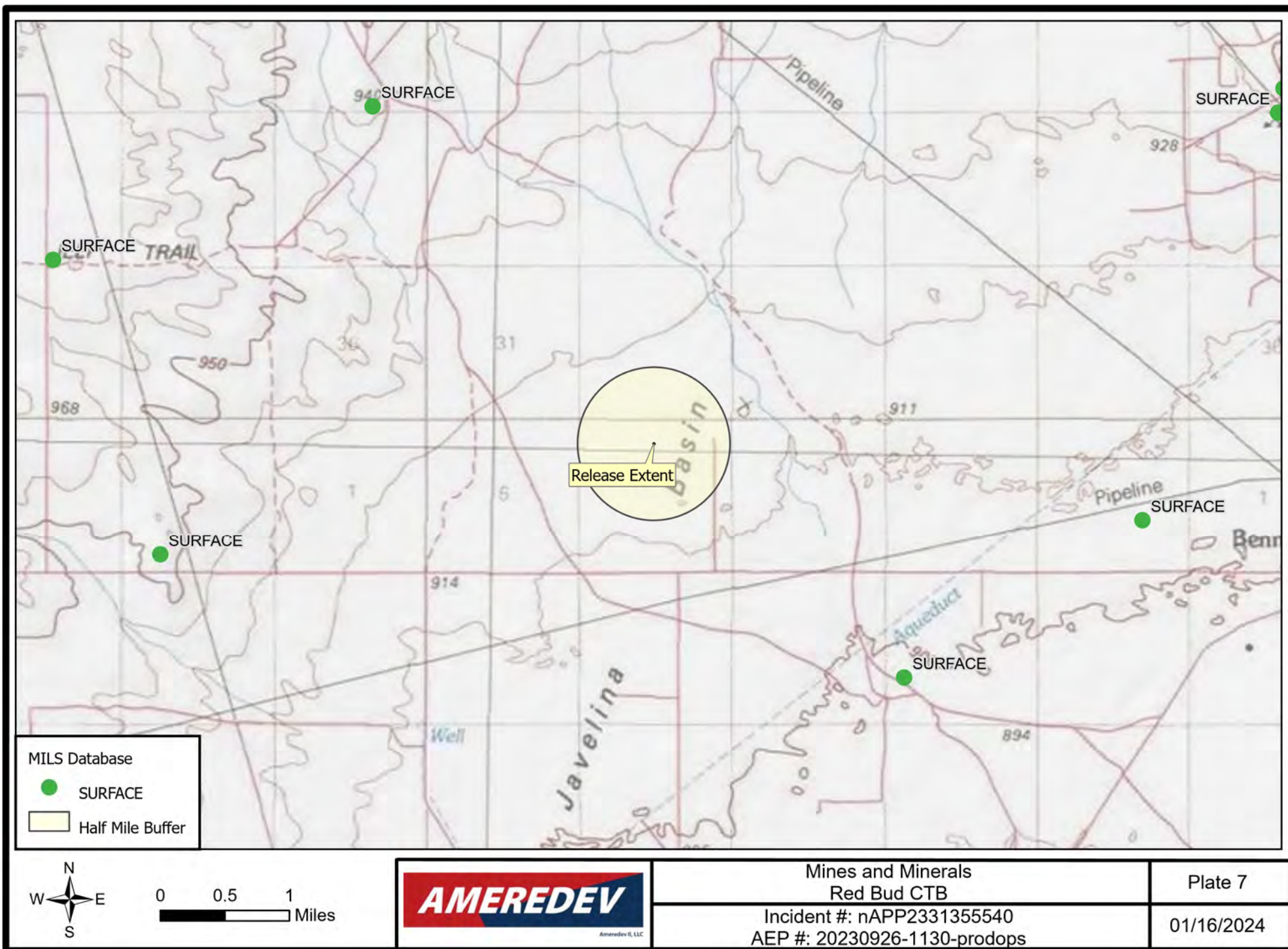


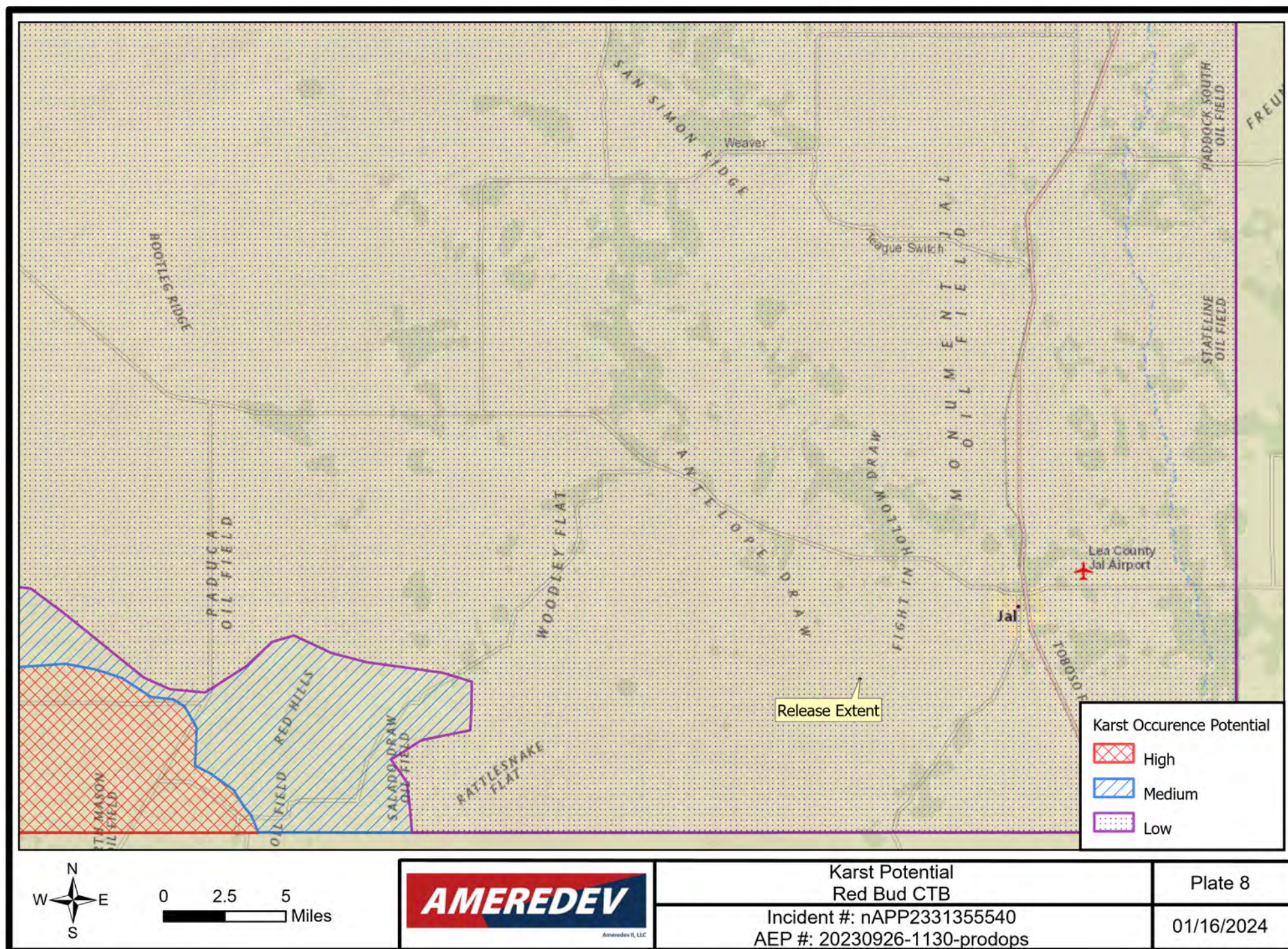


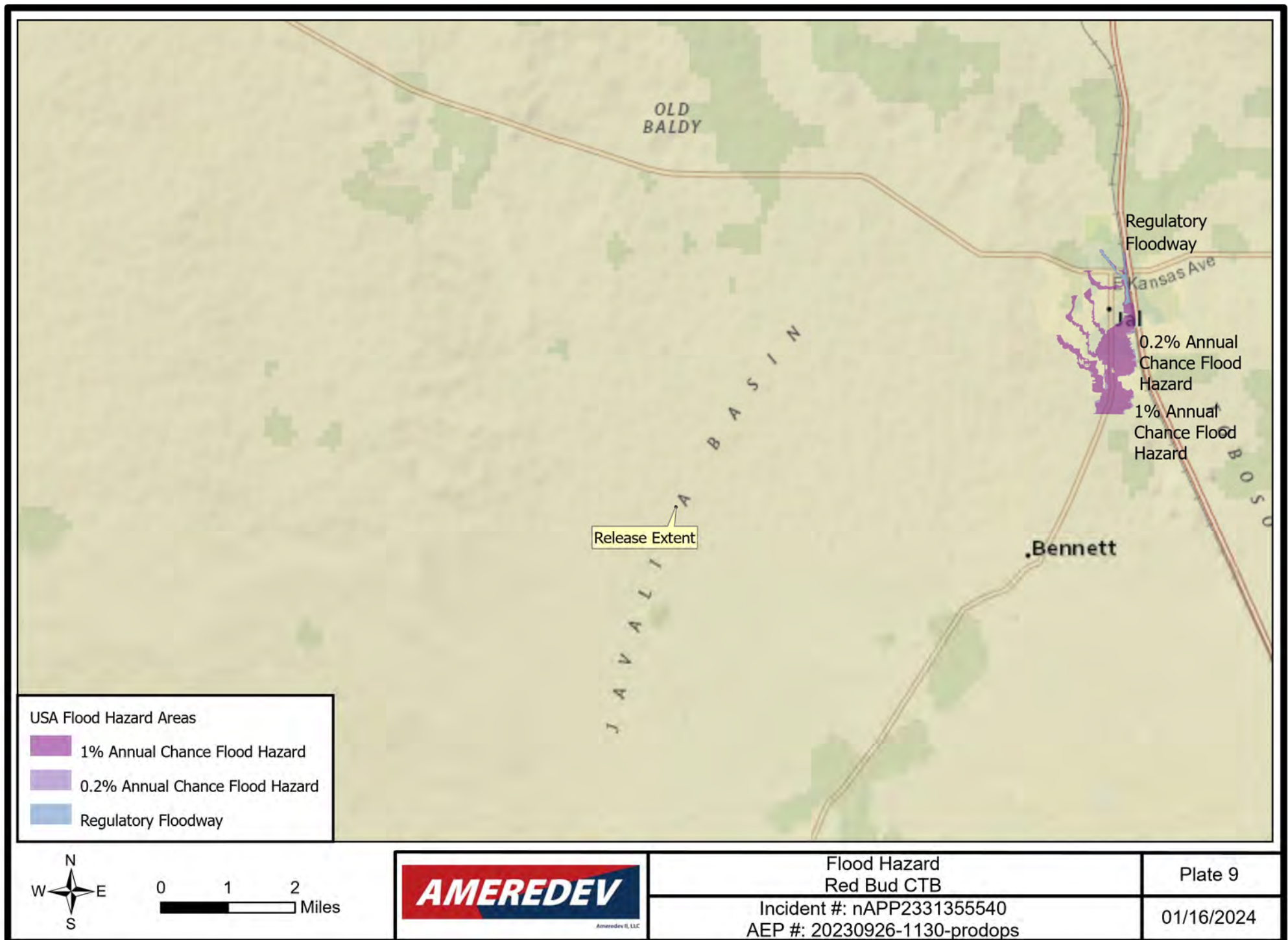


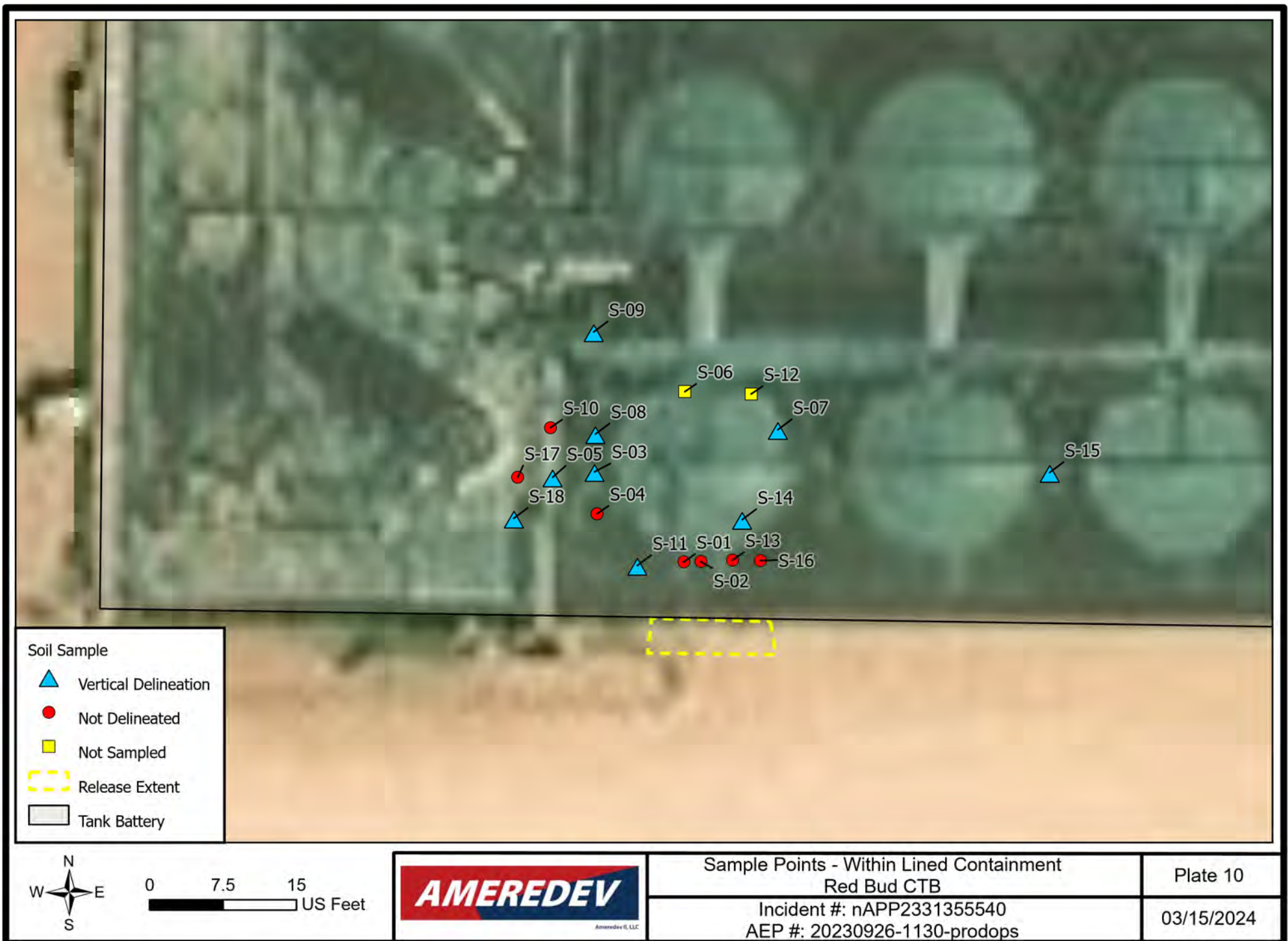


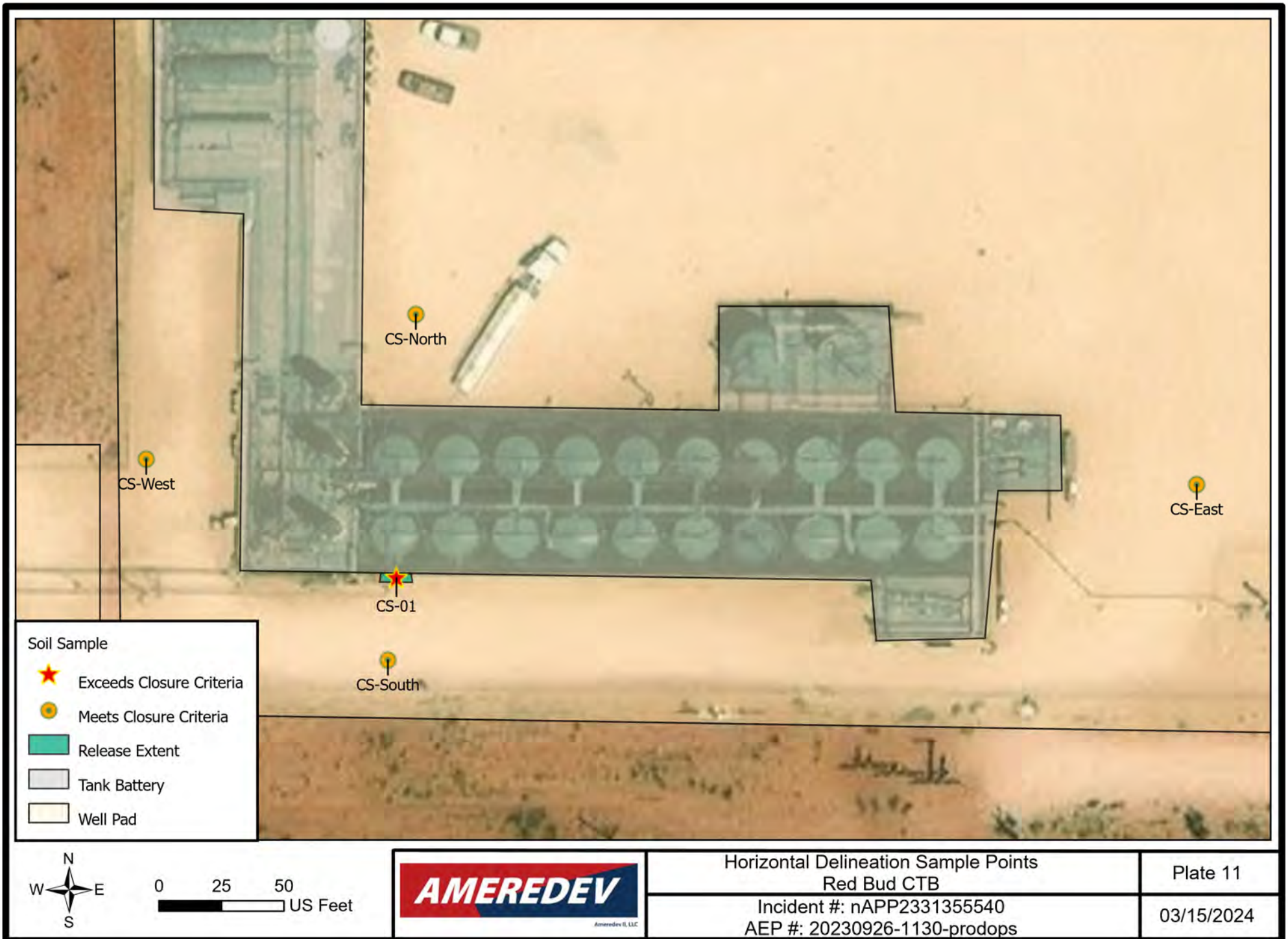


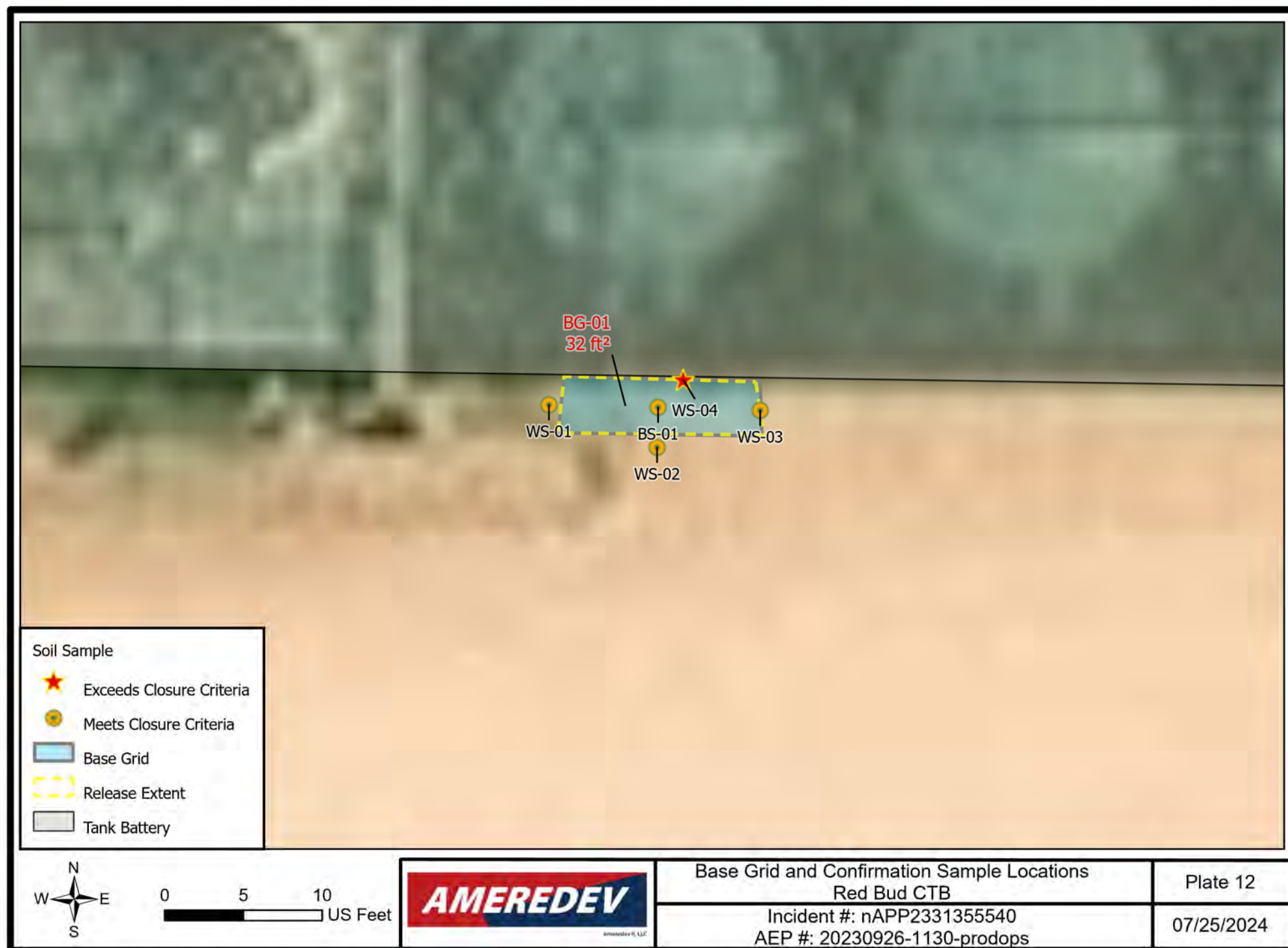


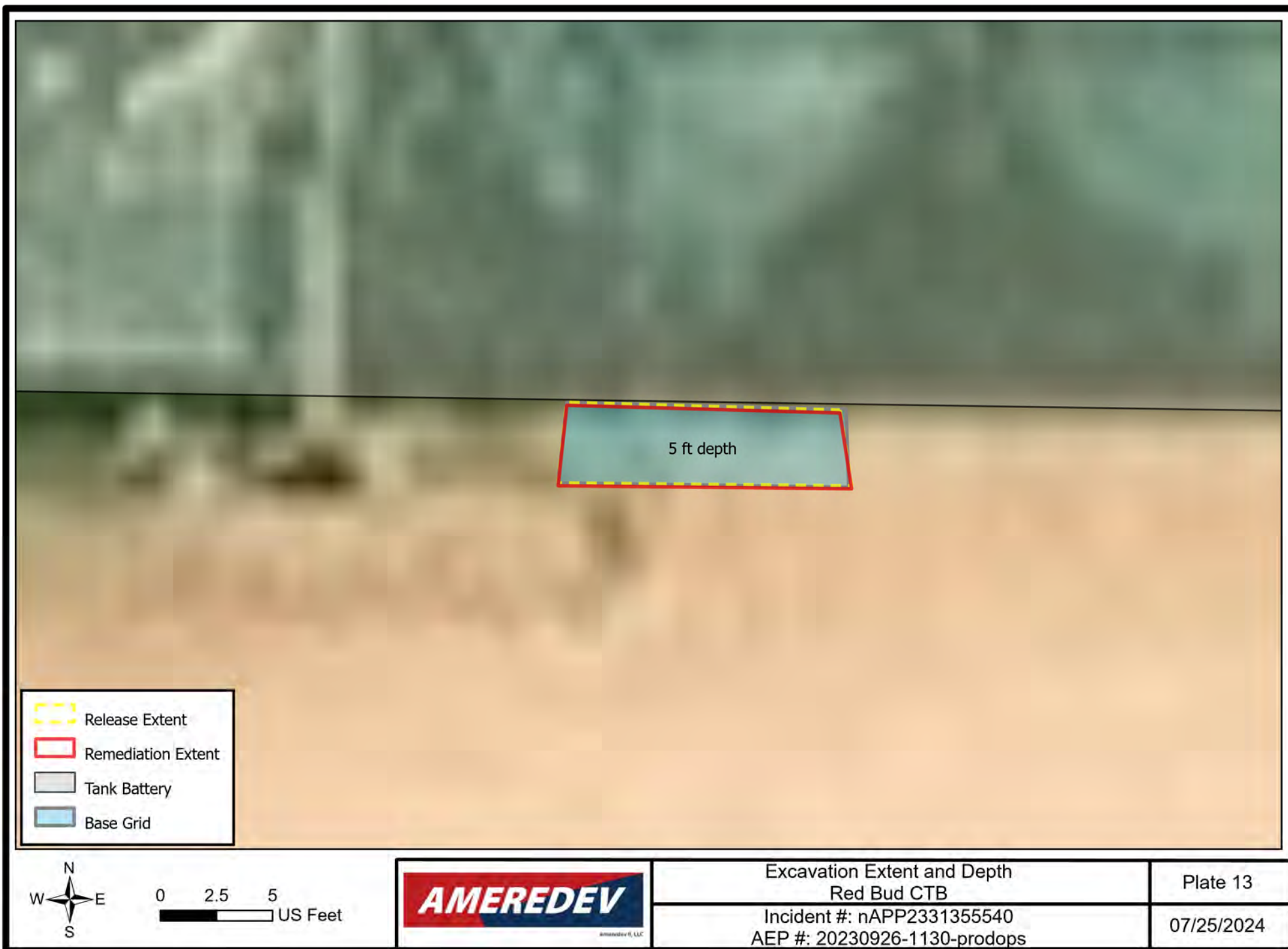












Tables



Ameredev II, LLC

July 25, 2024

Table A
Sample Point CoordinatesIncident ID: nAPP2331355540
Proj. ID #: 20230926-1130-prodops
Location: Red Bud CTB

Sample Point	Latitude	Longitude
CS-01	32.07706831	-103.2870985
CS-East	32.07715526	-103.2862217
CS-North	32.07731315	-103.2870772
CS-South	32.07699172	-103.2871078
CS-West	32.07717882	-103.2873727
S-01	32.07708584	-103.2871067
S-02	32.07708592	-103.2871019
S-03	32.07710735	-103.2871316
S-04	32.07709741	-103.2871309
S-05	32.07710605	-103.2871433
S-06	32.07712632	-103.2871064
S-07	32.07711731	-103.2870804
S-08	32.07711629	-103.2871314
S-09	32.07714048	-103.2871319
S-10	32.07711782	-103.2871439
S-11	32.07708497	-103.2871197
S-12	32.07712577	-103.2870878
S-13	32.07708627	-103.2870931
S-14	32.07709602	-103.2870903
S-15	32.07710718	-103.2870044
S-16	32.07708616	-103.2870852
S-17	32.07710603	-103.2871531
S-18	32.07709633	-103.2871542
BS-01	32.0770683	-103.2870995
WS-01	32.077068	-103.2871181
WS-02	32.0770621	-103.2870994
WS-03	32.0770672	-103.2870814
WS-04	32.0770722	-103.2870948

Ameredev II, LLC

1/1

July 25, 2024

Table B
Summary of AnalyticalIncident ID: nAPP2331355540
Proj. ID #: 20230926-1130-prodops
Location: Red Bud CTB

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments	Defer	Lab	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				
S-01	11/8/2023		0	1	on-site	922	8460	9358	1.04	113		Defer	Cardinal	H236160
S-01	11/8/2023		1	1.5	on-site	672	9470	10610	<1.0	61	Auger Refusal	Defer	Cardinal	H236160
S-02	11/8/2023		0	0.5	on-site	1260	9260	10320	<1.0	123	Auger Refusal	Defer	Cardinal	H236160
S-03	11/8/2023		0	1	on-site	2040	5640	6252	1.18	131		Defer	Cardinal	H236160
S-03	11/8/2023		1	2	on-site	992	192.3	274.3	<0.05	1.5		Defer	Cardinal	H236160
S-03	11/8/2023		2	3	on-site	1020	193.3	230.9	<0.05	2.35	Auger Refusal	Defer	Cardinal	H236160
S-04	11/14/2023		0	1	on-site	1460	16630	18410	0.806	169	Auger Refusal	Defer	Cardinal	H236237
S-05	11/8/2023		0	1	on-site	2080	8610	9558	1.2	141		Defer	Cardinal	H236160
S-05	11/8/2023		1	2	on-site	704	2962	3335	<0.05	22.1		Defer	Cardinal	H236160
S-05	11/8/2023		2	3	on-site	512	819	922	<0.05	5.28	Vertical Delineation	Defer	Cardinal	H236160
S-06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Equipment obstruction	NS	NS	NS
S-07	11/14/2023		0	1	on-site	1820	2306	2645	<0.05	6.86		Defer	Cardinal	H236237
S-07	11/14/2023		1	2	on-site	736	<39.3	<49.3	<0.05	<0.3	Vertical Delineation	Defer	Cardinal	H236237
S-08	11/8/2023		0	1	on-site	1760	2467	2749	<0.05	33.3		Defer	Cardinal	H236160
S-08	11/8/2023		1	2	on-site	912	141.9	159.5	<0.05	0.669		Defer	Cardinal	H236160
S-08	11/8/2023		2	3	on-site	912	458.5	533.9	<0.05	5.44		Defer	Cardinal	H236160
S-08	11/8/2023		3	4	on-site	880	<40.6	<50.6	<0.05	<0.3	Vertical Delineation	Defer	Cardinal	H236160
S-09	11/14/2023		0	1	on-site	2680	1322	1478	<0.50	3.41		Defer	Cardinal	H236237
S-09	11/14/2023		1	2	on-site	1250	<49.8	<59.8	<0.05	<0.3	Vertical Delineation	Defer	Cardinal	H236237
S-10	11/8/2023		0	1	on-site	2040	6790	7707	<0.2	11.3		Defer	Cardinal	H236160
S-10	11/8/2023	1.25			on-site	2400	3062	3565	<0.5	10.7	Auger Refusal	Defer	Cardinal	H236160
S-11	11/14/2023		0	1	on-site	3000	<75.6	<85.6	<0.05	<0.3		Defer	Cardinal	H236237
S-11	11/14/2023		1	2	on-site	560	<114	<124	<0.05	<0.3		Defer	Cardinal	H236237
S-11	11/14/2023		2	3	on-site	288	<22	<32	<0.05	<0.3		Defer	Cardinal	H236237
S-11	11/14/2023		3	4	on-site	208	<36.2	<46.2	<0.05	<0.3	Vertical Delineation	Defer	Cardinal	H236237
S-12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Equipment obstruction	NS	NS	NS
S-13	11/8/2023		0	1	on-site	480	14880	16830	2.04	145		Defer	Cardinal	H236160
S-13	11/8/2023	1.25			on-site	912	10990	12360	1.46	118	Auger Refusal	Defer	Cardinal	H236160
S-14	11/14/2023		0	1	on-site	1680	<1533	<1777	<0.05	0.761		Defer	Cardinal	H236237
S-14	11/14/2023		1	2	on-site	1040	<230	<287.3	<0.05	<0.3		Defer	Cardinal	H236237
S-14	11/14/2023		2	3	on-site	720	<60.4	<70.4	<0.05	<0.3	Vertical Delineation	Defer	Cardinal	H236237
S-15	11/14/2023		0	1	on-site	1040	<1791	<2099	<0.05	2.53		Defer	Cardinal	H236237
S-15	11/14/2023		1	2	on-site	576	<189	<218.4	<0.05	<0.3	Vertical Delineation	Defer	Cardinal	H236237
S-16	11/14/2023		0	0.5	on-site	1360	<9200	<10890	<0.05	9.96	Auger Refusal	Defer	Cardinal	H236237

July 25, 2024

Table B
Summary of AnalyticalIncident ID: nAPP2331355540
Proj. ID #: 20230926-1130-prodops
Location: Red Bud CTB

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments	Defer	Lab	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				
S-17	11/14/2023		0	1	on-site	704	<4882	<5755	<0.05	7.6		Defer	Cardinal	H236237
S-17	11/14/2023		1	2	on-site	528	<2038	<2353	<0.20	21.6		Defer	Cardinal	H236237
S-17	11/14/2023		2	3	on-site	320	<10530	<12040	<1.0	102		Defer	Cardinal	H236237
S-17	11/14/2023		3	4	on-site	272	<4526	<5183	0.071	22.5		Defer	Cardinal	H236237
S-18	11/14/2023		0	1	on-site	640	<3859	<4436	0.078	20.6		Defer	Cardinal	H236237
S-18	11/14/2023		1	2	on-site	288	<902	<1048	<0.05	5.62		Defer	Cardinal	H236237
S-18	11/14/2023		2	3	on-site	144	<148.5	<167.8	<0.05	0.473	Vertical Delineation	Defer	Cardinal	H236237
CS-North	3/1/2024		0	2	on-site	32	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-North	3/1/2024		2	4	on-site	32	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-North	3/1/2024	4.2			on-site	16	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-East	3/1/2024		0	2	on-site	32	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-East	3/1/2024		2	4	on-site	32	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-East	3/1/2024	4.2			on-site	16	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-South	3/1/2024		0	2	on-site	48	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-South	3/1/2024		2	4	on-site	16	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-South	3/1/2024	4.2			on-site	16	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-West	3/1/2024		0	2	on-site	48	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-West	3/1/2024		2	4	on-site	32	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-West	3/1/2024	4.2			on-site	48	<20	<30	<0.05	>0.3	Horizontal Delineation		Cardinal	H241036
CS-01	3/1/2024		0	2	on-site	592	<4604	<5601	<0.05	3.27			Cardinal	H241036
CS-01	3/1/2024		2	4	on-site	160	<1280	<1734	<0.05	>0.3			Cardinal	H241036
CS-01	3/1/2024		4	6	on-site	176	<2306.2	<2919.2	<0.05	>0.3			Cardinal	H241036
CS-01	3/1/2024	6.25			on-site	256	<1520	<1908	<0.05	>0.3			Cardinal	H241036

July 25, 2024

Table B
Summary of AnalyticalIncident ID: nAPP2331355540
Proj. ID #: 20230926-1130-prodops
Location: Red Bud CTB

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments	Defer	Lab	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				
BS-01	7/17/2024	5			on-site	960	<20	<30	<0.05	>0.3	Confirmation		Cardinal	H244289
BS-01	7/17/2024	6.5			on-site	560	<20	<30	<0.05	>0.3	Hand Auger - Vertical Delineation		Cardinal	H244289
WS-01	7/17/2024		0	2	on-site	32	<20	<30	<0.05	>0.3	Confirmation		Cardinal	H244289
WS-01	7/17/2024		2	4	on-site	96	<20	<30	<0.05	>0.3	Confirmation		Cardinal	H244289
WS-01	7/17/2024	5			on-site	112	<20	<30	<0.05	>0.3	Confirmation		Cardinal	H244289
WS-02	7/17/2024		0	2	on-site	32	<20	<30	<0.05	>0.3	Confirmation		Cardinal	H244289
WS-02	7/17/2024		2	4	on-site	112	<20	<30	<0.05	>0.3	Confirmation		Cardinal	H244289
WS-02	7/17/2024	5			on-site	304	<20	<30	<0.05	>0.3	Confirmation		Cardinal	H244289
WS-03	7/17/2024		0	2	on-site	112	<20	<30	<0.05	>0.3	Confirmation		Cardinal	H244289
WS-03	7/17/2024		2	4	on-site	160	<20	<30	<0.05	>0.3	Confirmation		Cardinal	H244289
WS-03	7/17/2024	5			on-site	64	<20	<30	<0.05	>0.3	Confirmation		Cardinal	H244289
WS-04	7/17/2024		0	2	on-site	320	12037	14827	<0.05	5.22		Defer	Cardinal	H244289
WS-04	7/17/2024		2	4	on-site	432	8761	11091	<0.05	>0.3		Defer	Cardinal	H244289
WS-04	7/17/2024	5			on-site	528	9407.8	11697.8	<0.05	>0.3		Defer	Cardinal	H244289
Backfill-01	7/17/2024					48	<20	<30	<0.05	>0.3			Cardinal	H244333
Exceeds Closure Criteria														

Appendix A

Communications



Ameredev II, LLC

Andrew Parker

From: OCDOnline@state.nm.us
Sent: Monday, November 13, 2023 10:31 AM
To: Andrew Parker
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 284604

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 approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2331355540, with the following conditions:

- **None**

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

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

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

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

Andrew Parker

From: Andrew Parker
Sent: Thursday, November 9, 2023 3:23 PM
To: Bratcher, Michael, EMNRD
Cc: OCD.Enviro@emnrd.nm.gov; Dayeed Khan; Laura Parker
Subject: Notification of Major Release Red Bud CTB

Mr. Bratcher,

Please accept this email as a major release notification at the Red Bud CTB (fAPP2203928043). A suspect release was verified on November 8, 2023 during investigations under the secondary containment primarily liner. Hydrocarbon impacted soils was observed during the investigation.

The release volume is unknown and is considered a Major Release per 19.15.29.7.A NMAC. Active delineation is occurring to determine the extent of the release. The source of the release is under investigation. As a precaution, flow into the suspect SW tank has been rerouted.

Location: Red Bud CTB (fAPP2203928043).

Lat/Long: 32.0771155, -103.510649

UL; TRS: UL B; Sec 5, T26S R36E

Volume: Unknown

Source: SW Tank

Material: Oil

A NOR and C-141 will follow within the next few days via the NMOCD online portal.

Thank you,

Andrew Parker
Environmental Scientist
970-570-9535



Andrew Parker

From: OCDOnline@state.nm.us
Sent: Thursday, November 9, 2023 3:26 PM
To: Andrew Parker
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 284413

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#) nAPP2331355540, 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 nAPP2331355540, 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

Laura Parker

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, February 2, 2024 8:52 AM
To: Laura Parker
Cc: Andrew Parker; Bratcher, Michael, EMNRD
Subject: Re: [EXTERNAL] Incident # nAPP2331355540 20230926-1130-prodops Red Bud CTB

Good afternoon Laura,

60-day time extension is approved. The Remediation Due date has been updated to 04/08/2024.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, February 1, 2024 11:35 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Incident # nAPP2331355540 20230926-1130-prodops Red Bud CTB

From: Laura Parker <lparker@ameredev.com>
Sent: Thursday, February 1, 2024 11:25 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Andrew Parker <aparker@ameredev.com>
Subject: [EXTERNAL] Incident # nAPP2331355540 20230926-1130-prodops Red Bud CTB

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

NMOCD

Ameredev II, LLC respectfully requests an extension for Incident # nAPP2331355540.

The release was reported as a major release (unknown volume oil) on 11/09/2023. Impacted soil discovered under the secondary containment adjacent to the observed spill. Flow to a suspect tank has been rerouted. Ameredev is in the process of performing tank testing and liner inspections; flow continues to be shut off to those areas. Soils samples have been obtained underneath the tank battery liner and additional horizontal and vertical delineation soil sampling is scheduled for mid-February.

Ameredev will submit a characterization report and remediation plan within 45 days of approval of extension.

Laura Parker
Environmental Specialist
505-270-8647



From: [Andrew Parker](#)
To: [Laura Parker](#)
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 317421
Date: Monday, February 26, 2024 12:13:32 PM

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, February 26, 2024 11:12 AM
To: Andrew Parker <aparker@amereDEV.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 317421

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2331355540.

The sampling event is expected to take place:

When: 03/01/2024 @ 08:30

Where: B-05-26S-36E 0 FNL 0 FEL (32.077106,-103.287116)

Additional Information: Jesus Palomares 575-605-4276

Sample event is intended for horizontal delineation. Sample point analytical data may be used for confirmation sampling.

Additional Instructions: Driving directions:

South from Eunice on highway 18 for approximately 21.5 miles. Turn west on highway 128 for approximately 5.5 miles. Turn south on lease road for approximately 4.3 miles. Turn west on lease road for approximately 0.32 miles and turn south onto location.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the**

requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

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

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

From: [Andrew Parker](#)
To: [Laura Parker](#)
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 330035
Date: Friday, June 7, 2024 4:40:52 PM

See below.

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, June 7, 2024 3:16 PM
To: Andrew Parker <aparker@amerdev.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 330035

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2331355540, for the following reasons:

- **Deferral request denied. Deferrals should be requested after carrying out all remediation. Spill areas outside of the containment need to be fully delineated and remediated. Remediate the area outside of the containment and then submit your deferral request stating which samples points are being requested for deferral with your closure report.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 330035.

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

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

Thank you,
Scott Rodgers
Environmental Specialist - A
505-469-1830
scott.rodgers@emnrd.nm.gov

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

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

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

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

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

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

QUESTIONS

Action 363645

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 363645
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2331355540
Incident Name	NAPP2331355540 20230926-1130-PRODOPS RED BUD CTB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203928043] RED BUD

Location of Release Source	
Site Name	20230926-1130-PRODOPS RED BUD CTB
Date Release Discovered	11/08/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	100
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/17/2024
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Jesus Palomares 575-605-4276
Please provide any information necessary for navigation to sampling site	GPS#: 32.077065°N, 103.287103°W At the intersection of Highway 128 and Highway 18 head West. Continue West for 5.6 miles and turn South onto the lease road, head South for 4.3 miles until reaching a 4 way intersection, head West for 1,636ft, head south for 897ft, head West for 356ft to arrive at location.

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

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

CONDITIONS

Action 363645

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 363645
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
aparker1969	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/12/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 367167

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 367167
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2331355540
Incident Name	NAPP2331355540 20230926-1130-PRODOPS RED BUD CTB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203928043] RED BUD

Location of Release Source	
Site Name	20230926-1130-PRODOPS RED BUD CTB
Date Release Discovered	11/08/2023
Surface Owner	Private

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	5,000
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	07/31/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Jesus Palomares 575-605-4276
Please provide any information necessary for navigation to liner inspection site	GPS#: 32.077065°N, 103.287103°W At the intersection of Highway 128 and Highway 18 head West. Continue West for 5.6 miles and turn South onto the lease road, head South for 4.3 miles until reaching a 4 way intersection, head West for 1,636ft, head south for 897ft, head West for 356ft to arrive at location.

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

CONDITIONS

Action 367167

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 367167
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
aparker1969	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	7/25/2024

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~~ 10/12/2022

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

Hand Delivered to the DII Office of the State Engineer

Re: Resubmitted Well Record CP-1922 Pod-1

To whom it may concern:

Attached please find a corrected well log & record and a plugging record that was originally filed on 9/30/2022, corrected is in duplicate, for a one (1) soil borings, CP-1922 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

DSE DII OCT 12 2022 PM 2:04



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-1922			
	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 4	SECONDS 38.51	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	17	9.02	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW NW NE Sec.5 T26S 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 9/21/2022	DRILLING ENDED 9/21/2022	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		

USE ON OCT 12 2022 PM 2:04

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

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
4. HYDROGEOLOGIC LOG OF WELL	0	14	14	Sand, fine-grained, poorly graded, Tan Brown	Y ✓ N	
	14	80	66	Sand, fine-grained, poorly graded, poorly consolidated, Tan Brown	Y ✓ N	
	80	101	21	Sand, fine-grained, poorly graded, with Caliche , Tan Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. DTW-16 <div style="text-align: right;">QSE DTI OCT 12 2022 PM2:04</div>					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"><div>Jackie Atkins</div><div>Jackie D. Atkins</div><div>10/4/2022</div></div>					
SIGNATURE OF DRILLER / PRINT SIGNEE NAME					DATE	

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



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1922

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: 7/26/2022 Date well plugging concluded: 7/26/2022

5) GPS Well Location: Latitude: 32 deg, 4 min, 38.51 sec
Longitude: 103 deg, 17 min, 9.02 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):

DSE DJT OCT 12 2022 PM2:04

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
10'-101'	Drill Cuttings	Approx. 145 gallons	145 gallons	Boring	

USE DT OCT 12 2022 PM2:04

MULTIPLY	BY	AND OBTAIN
cubic feet x 7.4805	=	gallons
cubic yards x 201.97	=	gallons

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

Signature of Well Driller

10/4/2022

Date






6_CP-1922_WellLog-packet-forsign-DTW-16

Final Audit Report

2022-10-04

Created:	2022-10-04
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAzK7AaPUzEPE-3Y1tAUQrH1EtAYsYz3H5

"6_CP-1922_WellLog-packet-forsign-DTW-16" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2022-10-04 - 2:26:57 PM GMT- IP address: 64.17.71.25
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2022-10-04 - 2:27:56 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2022-10-04 - 2:58:39 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2022-10-04 - 3:00:40 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2022-10-04 - 3:00:40 PM GMT

05E DIT OCT 12 2022 PM2:04



Adobe Acrobat Sign

Appendix C

Certificates of Analysis



Ameredev II, LLC



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

November 14, 2023

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: REDBUD CTB CONTAINMENT

Enclosed are the results of analyses for samples received by the laboratory on 11/09/23 14:37.

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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 01 0-1 FT (H236160-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.04	1.00	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	20.4	1.00	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	12.9	1.00	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	78.2	3.00	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	113	6.00	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1160	10.0	11/10/2023	ND	188	93.9	200	1.18		
DRO >C10-C28*	7300	10.0	11/10/2023	ND	173	86.5	200	1.19		
EXT DRO >C28-C36	898	10.0	11/10/2023	ND						

Surrogate: 1-Chlorooctane 224 % 48.2-134

Surrogate: 1-Chlorooctadecane 173 % 49.1-148

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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 01 1-1.5 FT (H236160-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	5.65	1.00	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	6.98	1.00	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	48.3	3.00	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	61.0	6.00	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1100	10.0	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	8370	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	1140	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 211 % 48.2-134

Surrogate: 1-Chlorooctadecane 177 % 49.1-148

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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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 02 0-0.5 FT (H236160-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	19.7	1.00	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	15.5	1.00	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	87.7	3.00	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	123	6.00	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1600	10.0	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	7660	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	1060	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 213 % 48.2-134

Surrogate: 1-Chlorooctadecane 175 % 49.1-148

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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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 03 0-1 FT (H236160-04)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.18	0.500	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	26.3	0.500	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	14.5	0.500	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	89.0	1.50	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	131	3.00	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1330	10.0	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	4310	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	612	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 173 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 03 1-2 FT (H236160-05)

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	11/10/2023	ND	2.13	106	2.00	9.97		
Toluene*	0.207	0.050	11/10/2023	ND	2.05	103	2.00	4.67		
Ethylbenzene*	0.167	0.050	11/10/2023	ND	2.23	111	2.00	2.34		
Total Xylenes*	1.13	0.150	11/10/2023	ND	6.70	112	6.00	0.914		
Total BTEX	1.50	0.300	11/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	16.3	10.0	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	176	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	82.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 03 2-3 FT (H236160-06)

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	11/10/2023	ND	2.13	106	2.00	9.97	
Toluene*	0.280	0.050	11/10/2023	ND	2.05	103	2.00	4.67	
Ethylbenzene*	0.246	0.050	11/10/2023	ND	2.23	111	2.00	2.34	
Total Xylenes*	1.82	0.150	11/10/2023	ND	6.70	112	6.00	0.914	
Total BTEX	2.35	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.3	10.0	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	174	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	37.6	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

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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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 05 0-1 FT (H236160-07)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.20	0.500	11/11/2023	ND	2.13	106	2.00	9.97	
Toluene*	20.9	0.500	11/11/2023	ND	2.05	103	2.00	4.67	
Ethylbenzene*	14.2	0.500	11/11/2023	ND	2.23	111	2.00	2.34	
Total Xylenes*	105	1.50	11/11/2023	ND	6.70	112	6.00	0.914	
Total BTEX	141	3.00	11/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1940	10.0	11/10/2023	ND	178	89.0	200	2.82	QM-07
DRO >C10-C28*	6670	10.0	11/10/2023	ND	190	94.8	200	5.68	QM-07
EXT DRO >C28-C36	948	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 196 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 05 1-2 FT (H236160-08)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2023	ND	2.13	106	2.00	9.97	
Toluene*	2.33	0.050	11/13/2023	ND	2.05	103	2.00	4.67	
Ethylbenzene*	2.69	0.050	11/13/2023	ND	2.23	111	2.00	2.34	
Total Xylenes*	17.1	0.150	11/13/2023	ND	6.70	112	6.00	0.914	
Total BTEX	22.1	0.300	11/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 210 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	592	10.0	11/10/2023	ND	178	89.0	200	2.82	
DRO >C10-C28*	2370	10.0	11/10/2023	ND	190	94.8	200	5.68	
EXT DRO >C28-C36	373	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 142 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 05 2-3 FT (H236160-09)

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	11/10/2023	ND	2.13	106	2.00	9.97	
Toluene*	0.457	0.050	11/10/2023	ND	2.05	103	2.00	4.67	
Ethylbenzene*	0.560	0.050	11/10/2023	ND	2.23	111	2.00	2.34	
Total Xylenes*	4.26	0.150	11/10/2023	ND	6.70	112	6.00	0.914	
Total BTEX	5.28	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	113	10.0	11/10/2023	ND	178	89.0	200	2.82	
DRO >C10-C28*	706	10.0	11/10/2023	ND	190	94.8	200	5.68	
EXT DRO >C28-C36	103	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 08 0-1 FT (H236160-10)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.13	106	2.00	9.97	
Toluene*	4.40	0.050	11/10/2023	ND	2.05	103	2.00	4.67	
Ethylbenzene*	4.21	0.050	11/10/2023	ND	2.23	111	2.00	2.34	
Total Xylenes*	24.7	0.150	11/10/2023	ND	6.70	112	6.00	0.914	
Total BTEX	33.3	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 245 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	517	10.0	11/10/2023	ND	178	89.0	200	2.82	
DRO >C10-C28*	1950	10.0	11/10/2023	ND	190	94.8	200	5.68	
EXT DRO >C28-C36	282	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 140 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 08 1-2 FT (H236160-11)

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	11/10/2023	ND	2.13	106	2.00	9.97	
Toluene*	0.068	0.050	11/10/2023	ND	2.05	103	2.00	4.67	
Ethylbenzene*	0.069	0.050	11/10/2023	ND	2.23	111	2.00	2.34	
Total Xylenes*	0.532	0.150	11/10/2023	ND	6.70	112	6.00	0.914	
Total BTEX	0.669	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.9	10.0	11/10/2023	ND	178	89.0	200	2.82	
DRO >C10-C28*	128	10.0	11/10/2023	ND	190	94.8	200	5.68	
EXT DRO >C28-C36	17.6	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 08 2-3 FT (H236160-12)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.13	106	2.00	9.97	
Toluene*	0.527	0.050	11/10/2023	ND	2.05	103	2.00	4.67	
Ethylbenzene*	0.546	0.050	11/10/2023	ND	2.23	111	2.00	2.34	
Total Xylenes*	4.37	0.150	11/10/2023	ND	6.70	112	6.00	0.914	
Total BTEX	5.44	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	45.5	10.0	11/10/2023	ND	178	89.0	200	2.82	
DRO >C10-C28*	413	10.0	11/10/2023	ND	190	94.8	200	5.68	
EXT DRO >C28-C36	75.4	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 08 3-4 FT (H236160-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2023	ND	2.13	106	2.00	9.97		
Toluene*	<0.050	0.050	11/10/2023	ND	2.05	103	2.00	4.67		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.23	111	2.00	2.34		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.70	112	6.00	0.914		
Total BTEX	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	178	89.0	200	2.82	
DRO >C10-C28*	30.6	10.0	11/10/2023	ND	190	94.8	200	5.68	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 10 0-1 FT (H236160-14)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/11/2023	ND	2.13	106	2.00	9.97	GC-NC
Toluene*	1.59	0.200	11/11/2023	ND	2.05	103	2.00	4.67	GC-NC1
Ethylbenzene*	5.05	0.200	11/11/2023	ND	2.23	111	2.00	2.34	GC-NC1
Total Xylenes*	4.62	0.600	11/11/2023	ND	6.70	112	6.00	0.914	GC-NC1
Total BTEX	11.3	1.20	11/11/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 202 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	870	10.0	11/10/2023	ND	178	89.0	200	2.82	
DRO >C10-C28*	5920	10.0	11/10/2023	ND	190	94.8	200	5.68	
EXT DRO >C28-C36	917	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 143 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 10 1.25 FT (H236160-15)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2023	ND	2.13	106	2.00	9.97	
Toluene*	0.525	0.050	11/13/2023	ND	2.05	103	2.00	4.67	GC-NC1
Ethylbenzene*	0.779	0.050	11/13/2023	ND	2.23	111	2.00	2.34	GC-NC1
Total Xylenes*	9.38	0.150	11/13/2023	ND	6.70	112	6.00	0.914	GC-NC1
Total BTEX	10.7	0.300	11/13/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 310 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	292	10.0	11/10/2023	ND	178	89.0	200	2.82	
DRO >C10-C28*	2770	10.0	11/10/2023	ND	190	94.8	200	5.68	
EXT DRO >C28-C36	503	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 13 0-1 FT (H236160-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.04	1.00	11/11/2023	ND	2.13	106	2.00	9.97	
Toluene*	30.9	1.00	11/11/2023	ND	2.05	103	2.00	4.67	
Ethylbenzene*	15.0	1.00	11/11/2023	ND	2.23	111	2.00	2.34	
Total Xylenes*	97.5	3.00	11/11/2023	ND	6.70	112	6.00	0.914	
Total BTEX	145	6.00	11/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2180	50.0	11/10/2023	ND	178	89.0	200	2.82		
DRO >C10-C28*	12700	50.0	11/10/2023	ND	190	94.8	200	5.68		
EXT DRO >C28-C36	1950	50.0	11/10/2023	ND						

Surrogate: 1-Chlorooctane 296 % 48.2-134

Surrogate: 1-Chlorooctadecane 233 % 49.1-148

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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:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 13 1.25 FT (H236160-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.46	1.00	11/11/2023	ND	2.13	106	2.00	9.97	
Toluene*	24.1	1.00	11/11/2023	ND	2.05	103	2.00	4.67	
Ethylbenzene*	14.3	1.00	11/11/2023	ND	2.23	111	2.00	2.34	
Total Xylenes*	78.7	3.00	11/11/2023	ND	6.70	112	6.00	0.914	
Total BTEX	118	6.00	11/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1840	50.0	11/10/2023	ND	178	89.0	200	2.82	
DRO >C10-C28*	9150	50.0	11/10/2023	ND	190	94.8	200	5.68	
EXT DRO >C28-C36	1370	50.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 244 % 48.2-134

Surrogate: 1-Chlorooctadecane 159 % 49.1-148

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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.
- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
- GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
- 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", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ammeter LLC				BILL TO				ANALYSIS REQUEST			
Project Manager: Andrew Parker				P.O. #: 20230926-1130-prodops							
Address: On-File				Company: Ammeter LLC							
City:				Attn: aparker@ammer.com							
State:				Address:							
Phone #:				City:							
Project #:				State:							
Project Name: 20230926-1130-prodops				Zip:							
Project Location: Redbud CTB containment				Phone #:							
Sampler Name: Jesus Palomares				Fax #:							
FOR LAB USE ONLY				PRESERV.				SAMPLING			
Lab I.D.				(G)RAB OR (C)OMP.							
Sample I.D.				# CONTAINERS							
				GROUNDWATER							
				WASTEWATER							
				SOIL							
				OIL							
				SLUDGE							
				OTHER :							
				ACID/BASE:							
				ICE / COOL							
				OTHER :							
				DATE				TIME			
H236160				11-08-23				12:20			
1 S-01 0-1ft				12:29				Chloride			
2 S-01 1-1.5ft				12:38				TPH (GRO+ DRO+ MRO)			
3 S-02 0-0.5ft				13:51				BTEX (Benzene)			
4 S-03 0-1ft				13:54							
5 S-03 1-2ft				14:03							
6 S-03 2-3ft				13:31							
7 S-05 0-1ft				13:37							
8 S-05 1-2ft				13:40							
9 S-05 2-3ft				13:06							
10 S-08 0-1ft											
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Relinquished By:				Date: 11-9-23				Received By:			
Relinquished By:				Time: 14:37				Received By:			
Date:				Time:				REMARKS:			
Delivered By: (Circle One)				Observed Temp. °C				Sample Condition			
Sampler - UPS - Bus - Other:				Corrected Temp. °C				Checked BY: (Initials)			
				Turnaround Time:				Standard			
				Thermometer ID #140				Rush			
				Correction Factor 0°C				Bacteria (only) Sample Condition			
								Cool Intact			
								Observed Temp. °C			
								Corrected Temp. °C			



101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amerdev LLC</u>		P.O. #: <u>20230926-1130-prodops</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Andrew Parker</u>		Company: <u>Amerdev LLC</u>					
Address: <u>On-File</u>		Attn: <u>aparker@amerdev.com</u>					
City: _____		State: _____		Zip: _____			
Phone #: _____		Fax #: _____		Address: _____			
Project #: _____		Project Owner: _____		City: _____			
Project Name: <u>20230926-1130-prodops</u>		State: _____		Zip: _____			
Project Location: <u>Redbud CTB Containment</u>		Phone #: _____		Fax #: _____			
Sampler Name: <u>Jesus Palomares</u>							
FOR LAB USE ONLY							
Lab I.D. _____		Sample I.D. _____					
<u>H236160</u>							
11 5-08 1-2ft		G 1		11-08-23 13:17		Chloride	
12 5-08 2-3ft		11		13:17		TPH (GRO + DRD + MRB)	
13 5-08 3-4ft		11		13:19		BTEX (Benzene)	
14 5-10 0-1		11		13:21			
15 5-10 1.25ft		11		13:22			
16 5-13 0-1ft		11		12:51			
17 5-13 1.25ft		11		12:55			
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Relinquished By: _____		Date: <u>11-9-23</u>		Received By: _____			
Relinquished By: _____		Time: <u>14:37</u>		Received By: _____			
Date: _____		Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____	
Time: _____		Time: _____		All Results are emailed. Please provide Email address: _____			
Delivered By: (Circle One)		Observed Temp. °C <u>-0.8</u>		Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: _____ (Initials)	
Sampler - UPS - Bus - Other: _____		Corrected Temp. °C _____		<input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: _____	
FORM 006 R 3-4 07/11/23				<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Correction Factor 0°C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Standard <u>RUSH</u>	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Cool Intact	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C	

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



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

November 17, 2023

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: REDBUD CTB CONTAINMENT

Enclosed are the results of analyses for samples received by the laboratory on 11/14/23 16:25.

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 style with a large, stylized 'C' and 'K'.

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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 04 0-1 FT (H236237-01)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.806	0.500	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	29.7	0.500	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	18.8	0.500	11/16/2023	ND	2.18	109	2.00	1.91	
Total Xylenes*	120	1.50	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTX	169	3.00	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 166 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	11/16/2023	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3930	50.0	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	12700	50.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	1780	50.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 359 % 48.2-134

Surrogate: 1-Chlorooctadecane 228 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 07 0-1 FT (H236237-02)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	0.275	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	0.649	0.050	11/16/2023	ND	2.18	109	2.00	1.91	
Total Xylenes*	5.94	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	6.86	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 211 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1820	16.0	11/16/2023	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	216	10.0	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	2090	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	339	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 07 1-2 FT (H236237-03)

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	11/16/2023	ND	2.01	100	2.00	1.86		
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12		
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81		
Total BTEX	<0.300	0.300	11/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	11/16/2023	ND	464	116	400	3.51		

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	11/16/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	29.3	10.0	11/16/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/16/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 09 0-1 FT (H236237-04)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	0.090	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	0.331	0.050	11/16/2023	ND	2.18	109	2.00	1.91	GC-NC1
Total Xylenes*	2.99	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	3.41	0.300	11/16/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 210 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	11/16/2023	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	172	10.0	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	1150	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	156	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 09 1-2 FT (H236237-05)

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	11/16/2023	ND	2.01	100	2.00	1.86		
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12		
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81		
Total BTEX	<0.300	0.300	11/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	11/16/2023	ND	464	116	400	3.51		

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	11/16/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	39.8	10.0	11/16/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/16/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 11 0-1 FT (H236237-06)

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	11/16/2023	ND	2.01	100	2.00	1.86		
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12		
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81		
Total BTEX	<0.300	0.300	11/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	11/16/2023	ND	464	116	400	3.51		

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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	65.6	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 11 1-2 FT (H236237-07)

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	11/16/2023	ND	2.01	100	2.00	1.86		
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12		
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81		
Total BTEX	<0.300	0.300	11/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	11/16/2023	ND	464	116	400	3.51		

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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	104	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 11 2-3 FT (H236237-08)

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	11/16/2023	ND	2.01	100	2.00	1.86		
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12		
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81		
Total BTEX	<0.300	0.300	11/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/16/2023	ND	464	116	400	3.51		

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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	12.0	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 11 3-4 FT (H236237-09)

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	11/16/2023	ND	2.01	100	2.00	1.86		
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12		
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81		
Total BTEX	<0.300	0.300	11/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/16/2023	ND	464	116	400	3.51		

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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	26.2	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 14 0-1 FT (H236237-10)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	0.148	0.050	11/16/2023	ND	2.18	109	2.00	1.91	GC-NC1
Total Xylenes*	0.613	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	0.761	0.300	11/16/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 187 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	11/16/2023	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	113	10.0	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	1420	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	244	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 14 1-2 FT (H236237-11)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91	GC-NC
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	11/16/2023	ND	416	104	400	3.77	QM-07

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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	220	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	57.3	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 14 2-3 FT (H236237-12)

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	11/16/2023	ND	2.01	100	2.00	1.86		
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12		
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81		
Total BTEX	<0.300	0.300	11/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	11/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	200	100	200	0.540	
DRO >C10-C28*	50.4	10.0	11/15/2023	ND	189	94.4	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 15 0-1 FT (H236237-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2023	ND	1.94	97.0	2.00	1.61		
Toluene*	0.119	0.050	11/16/2023	ND	1.95	97.4	2.00	1.13		
Ethylbenzene*	0.334	0.050	11/16/2023	ND	2.08	104	2.00	2.30	GC-NC1	
Total Xylenes*	2.08	0.150	11/16/2023	ND	6.28	105	6.00	2.29	QM-07	
Total BTEX	2.53	0.300	11/16/2023	ND						GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	11/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	181	10.0	11/15/2023	ND	200	100	200	0.540		
DRO >C10-C28*	1610	10.0	11/15/2023	ND	189	94.4	200	2.75		
EXT DRO >C28-C36	308	10.0	11/15/2023	ND						

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 15 1-2 FT (H236237-14)

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	11/16/2023	ND	1.94	97.0	2.00	1.61		
Toluene*	<0.050	0.050	11/16/2023	ND	1.95	97.4	2.00	1.13		
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.08	104	2.00	2.30		
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.28	105	6.00	2.29		
Total BTEX	<0.300	0.300	11/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	11/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	200	100	200	0.540	
DRO >C10-C28*	179	10.0	11/15/2023	ND	189	94.4	200	2.75	
EXT DRO >C28-C36	29.4	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 16 0-0.5 FT (H236237-15)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2023	ND	1.94	97.0	2.00	1.61	
Toluene*	1.45	0.050	11/16/2023	ND	1.95	97.4	2.00	1.13	
Ethylbenzene*	4.96	0.050	11/16/2023	ND	2.08	104	2.00	2.30	GC-NC1
Total Xylenes*	3.54	0.150	11/16/2023	ND	6.28	105	6.00	2.29	
Total BTEX	9.96	0.300	11/16/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 373 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	11/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1210	10.0	11/15/2023	ND	200	100	200	0.540	
DRO >C10-C28*	7990	10.0	11/15/2023	ND	189	94.4	200	2.75	
EXT DRO >C28-C36	1690	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 191 % 48.2-134

Surrogate: 1-Chlorooctadecane 179 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 17 0-1 FT (H236237-16)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2023	ND	1.94	97.0	2.00	1.61	
Toluene*	0.743	0.050	11/16/2023	ND	1.95	97.4	2.00	1.13	
Ethylbenzene*	1.21	0.050	11/16/2023	ND	2.08	104	2.00	2.30	GC-NC1
Total Xylenes*	5.65	0.150	11/16/2023	ND	6.28	105	6.00	2.29	
Total BTEX	7.60	0.300	11/16/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 592 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	702	10.0	11/15/2023	ND	200	100	200	0.540	
DRO >C10-C28*	4180	10.0	11/15/2023	ND	189	94.4	200	2.75	
EXT DRO >C28-C36	873	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 152 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 17 1-2 FT (H236237-17)

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/16/2023	ND	1.94	97.0	2.00	1.61	
Toluene*	1.01	0.200	11/16/2023	ND	1.95	97.4	2.00	1.13	
Ethylbenzene*	1.92	0.200	11/16/2023	ND	2.08	104	2.00	2.30	
Total Xylenes*	18.6	0.600	11/16/2023	ND	6.28	105	6.00	2.29	
Total BTEX	21.6	1.20	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	388	10.0	11/15/2023	ND	200	100	200	0.540	
DRO >C10-C28*	1650	10.0	11/15/2023	ND	189	94.4	200	2.75	
EXT DRO >C28-C36	315	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 17 2-3 FT (H236237-18)

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/16/2023	ND	1.94	97.0	2.00	1.61	
Toluene*	6.91	1.00	11/16/2023	ND	1.95	97.4	2.00	1.13	
Ethylbenzene*	10.5	1.00	11/16/2023	ND	2.08	104	2.00	2.30	
Total Xylenes*	84.5	3.00	11/16/2023	ND	6.28	105	6.00	2.29	
Total BTEX	102	6.00	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 163 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2430	10.0	11/15/2023	ND	200	100	200	0.540	
DRO >C10-C28*	8100	10.0	11/15/2023	ND	189	94.4	200	2.75	
EXT DRO >C28-C36	1510	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 243 % 48.2-134

Surrogate: 1-Chlorooctadecane 167 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 17 3-4 FT (H236237-19)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.071	0.050	11/16/2023	ND	1.94	97.0	2.00	1.61	
Toluene*	1.47	0.050	11/16/2023	ND	1.95	97.4	2.00	1.13	
Ethylbenzene*	2.22	0.050	11/16/2023	ND	2.08	104	2.00	2.30	
Total Xylenes*	18.7	0.150	11/16/2023	ND	6.28	105	6.00	2.29	
Total BTEX	22.5	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 267 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	946	10.0	11/15/2023	ND	200	100	200	0.540	
DRO >C10-C28*	3580	10.0	11/15/2023	ND	189	94.4	200	2.75	
EXT DRO >C28-C36	657	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 167 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 18 0-1 FT (H236237-20)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.078	0.050	11/16/2023	ND	1.94	97.0	2.00	1.61	
Toluene*	1.92	0.050	11/16/2023	ND	1.95	97.4	2.00	1.13	
Ethylbenzene*	2.99	0.050	11/16/2023	ND	2.08	104	2.00	2.30	
Total Xylenes*	15.6	0.150	11/16/2023	ND	6.28	105	6.00	2.29	
Total BTEX	20.6	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 271 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	11/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	729	10.0	11/15/2023	ND	200	100	200	0.540	
DRO >C10-C28*	3130	10.0	11/15/2023	ND	189	94.4	200	2.75	
EXT DRO >C28-C36	577	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 157 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 18 1-2 FT (H236237-21)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2023	ND	1.94	97.0	2.00	1.61	
Toluene*	0.321	0.050	11/16/2023	ND	1.95	97.4	2.00	1.13	
Ethylbenzene*	0.726	0.050	11/16/2023	ND	2.08	104	2.00	2.30	
Total Xylenes*	4.57	0.150	11/16/2023	ND	6.28	105	6.00	2.29	
Total BTEX	5.62	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	126	10.0	11/15/2023	ND	200	100	200	0.540	
DRO >C10-C28*	776	10.0	11/15/2023	ND	189	94.4	200	2.75	
EXT DRO >C28-C36	146	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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*=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:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S - 18 2-3 FT (H236237-22)

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	11/16/2023	ND	1.94	97.0	2.00	1.61		
Toluene*	<0.050	0.050	11/16/2023	ND	1.95	97.4	2.00	1.13		
Ethylbenzene*	0.058	0.050	11/16/2023	ND	2.08	104	2.00	2.30		
Total Xylenes*	0.415	0.150	11/16/2023	ND	6.28	105	6.00	2.29		
Total BTEX	0.473	0.300	11/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.5	10.0	11/16/2023	ND	200	100	200	0.540	
DRO >C10-C28*	137	10.0	11/16/2023	ND	189	94.4	200	2.75	
EXT DRO >C28-C36	19.3	10.0	11/16/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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



1

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

ANALYSIS REQUEST

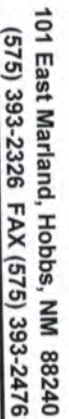
Page 25 of 27



101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**BILL TO**

ANALYSIS REQUEST

Page 27 of 27



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

March 06, 2024

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: REDBUD CTB CONTAINMENT

Enclosed are the results of analyses for samples received by the laboratory on 03/01/24 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - NORTH 0-2 FT (H241036-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	0.423	
Toluene*	<0.050	0.050	03/04/2024	ND	2.27	113	2.00	2.47	
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.41	121	2.00	4.85	
Total Xylenes*	<0.150	0.150	03/04/2024	ND	7.15	119	6.00	4.89	
Total BTEX	<0.300	0.300	03/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	217	108	200	1.28	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	211	106	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - NORTH 2-4 FT (H241036-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	0.423		
Toluene*	<0.050	0.050	03/04/2024	ND	2.27	113	2.00	2.47		
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.41	121	2.00	4.85		
Total Xylenes*	<0.150	0.150	03/04/2024	ND	7.15	119	6.00	4.89		
Total BTEX	<0.300	0.300	03/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/05/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	217	108	200	1.28	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	211	106	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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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: 03/01/2024
 Reported: 03/06/2024
 Project Name: REDBUD CTB CONTAINMENT
 Project Number: 20230926-1130-PRODOPS
 Project Location: NOT GIVEN

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - NORTH 4.2 FT (H241036-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	0.423	
Toluene*	<0.050	0.050	03/04/2024	ND	2.27	113	2.00	2.47	
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.41	121	2.00	4.85	
Total Xylenes*	<0.150	0.150	03/04/2024	ND	7.15	119	6.00	4.89	
Total BTEX	<0.300	0.300	03/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/05/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	217	108	200	1.28	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	211	106	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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: 03/01/2024
 Reported: 03/06/2024
 Project Name: REDBUD CTB CONTAINMENT
 Project Number: 20230926-1130-PRODOPS
 Project Location: NOT GIVEN

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - EAST 0-2 FT (H241036-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	0.423	
Toluene*	<0.050	0.050	03/04/2024	ND	2.27	113	2.00	2.47	
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.41	121	2.00	4.85	
Total Xylenes*	<0.150	0.150	03/04/2024	ND	7.15	119	6.00	4.89	
Total BTEX	<0.300	0.300	03/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	217	108	200	1.28	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	211	106	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - EAST 2-4 FT (H241036-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.22	111	2.00	0.423		
Toluene*	<0.050	0.050	03/05/2024	ND	2.27	113	2.00	2.47		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.41	121	2.00	4.85		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	7.15	119	6.00	4.89		
Total BTEX	<0.300	0.300	03/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/05/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	205	103	200	12.3	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	188	93.9	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/06/2024
 Project Name: REDBUD CTB CONTAINMENT
 Project Number: 20230926-1130-PRODOPS
 Project Location: NOT GIVEN

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - EAST 4.2 FT (H241036-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2024	ND	2.22	111	2.00	0.423	
Toluene*	<0.050	0.050	03/05/2024	ND	2.27	113	2.00	2.47	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.41	121	2.00	4.85	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	7.15	119	6.00	4.89	
Total BTEX	<0.300	0.300	03/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/05/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	205	103	200	12.3	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	188	93.9	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - SOUTH 0-2 FT (H241036-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.22	111	2.00	0.423		
Toluene*	<0.050	0.050	03/05/2024	ND	2.27	113	2.00	2.47		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.41	121	2.00	4.85		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	7.15	119	6.00	4.89		
Total BTEx	<0.300	0.300	03/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/05/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	201	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	188	93.8	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 49.1-148

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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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - SOUTH 2-4 FT (H241036-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.22	111	2.00	0.423		
Toluene*	<0.050	0.050	03/05/2024	ND	2.27	113	2.00	2.47		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.41	121	2.00	4.85		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	7.15	119	6.00	4.89		
Total BTEX	<0.300	0.300	03/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/05/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	201	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	188	93.8	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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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: 03/01/2024
 Reported: 03/06/2024
 Project Name: REDBUD CTB CONTAINMENT
 Project Number: 20230926-1130-PRODOPS
 Project Location: NOT GIVEN

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - SOUTH 4.2 FT (H241036-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2024	ND	2.22	111	2.00	0.423	
Toluene*	<0.050	0.050	03/05/2024	ND	2.27	113	2.00	2.47	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.41	121	2.00	4.85	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	7.15	119	6.00	4.89	
Total BTEX	<0.300	0.300	03/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/05/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	201	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	188	93.8	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - WEST 0-2 FT (H241036-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	8.07		
Toluene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	10.4		
Total Xylenes*	<0.150	0.150	03/04/2024	ND	6.14	102	6.00	10.2		
Total BTEX	<0.300	0.300	03/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/05/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	201	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	188	93.8	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.4 % 49.1-148

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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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - WEST 2-4 FT (H241036-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	8.07		
Toluene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	10.4		
Total Xylenes*	<0.150	0.150	03/04/2024	ND	6.14	102	6.00	10.2		
Total BTEX	<0.300	0.300	03/04/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/05/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	201	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	188	93.8	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 49.1-148

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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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - WEST 4.2 FT (H241036-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	8.07		
Toluene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	8.73		
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	10.4		
Total Xylenes*	<0.150	0.150	03/04/2024	ND	6.14	102	6.00	10.2		
Total BTEX	<0.300	0.300	03/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/05/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	201	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	188	93.8	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - 01 0-2 FT (H241036-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2024	ND	2.22	111	2.00	8.07	
Toluene*	0.260	0.050	03/05/2024	ND	2.06	103	2.00	8.73	GC-NC1
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.06	103	2.00	10.4	
Total Xylenes*	3.01	0.150	03/05/2024	ND	6.14	102	6.00	10.2	GC-NC1
Total BTEX	3.27	0.300	03/05/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	03/05/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	164	10.0	03/04/2024	ND	201	101	200	0.192	
DRO >C10-C28*	4440	10.0	03/04/2024	ND	188	93.8	200	1.94	
EXT DRO >C28-C36	997	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - 01 2-4 FT (H241036-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	8.07	
Toluene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	8.73	
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	10.4	
Total Xylenes*	<0.150	0.150	03/04/2024	ND	6.14	102	6.00	10.2	
Total BTEX	<0.300	0.300	03/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/05/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	201	101	200	0.192	
DRO >C10-C28*	1270	10.0	03/04/2024	ND	188	93.8	200	1.94	
EXT DRO >C28-C36	454	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - 01 4-6 FT (H241036-15)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	8.07	
Toluene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	8.73	
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	10.4	GC-NC
Total Xylenes*	<0.150	0.150	03/04/2024	ND	6.14	102	6.00	10.2	
Total BTEX	<0.300	0.300	03/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/05/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	16.2	10.0	03/04/2024	ND	201	101	200	0.192	
DRO >C10-C28*	2290	10.0	03/04/2024	ND	188	93.8	200	1.94	
EXT DRO >C28-C36	613	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 160 % 49.1-148

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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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/06/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: CS - 01 6.25 FT (H241036-16)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	8.07	
Toluene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	8.73	
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.06	103	2.00	10.4	GC-NC
Total Xylenes*	<0.150	0.150	03/04/2024	ND	6.14	102	6.00	10.2	
Total BTEX	<0.300	0.300	03/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/05/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	201	101	200	0.192	
DRO >C10-C28*	1510	10.0	03/04/2024	ND	188	93.8	200	1.94	
EXT DRO >C28-C36	388	10.0	03/04/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Amerex LLC		BILL TO		ANALYSIS REQUEST						
Project Manager: Andrew Parker		P.O. #: 20230926-1130-prodops								
Address: On-File		Company: Amerex LLC								
City:		Attn: aparker@amerexlab.com								
State:		Address:								
Zip:		City:								
Phone #:		State:								
Fax #:		Zip:								
Project #:		Project Owner:								
Project Name: 20230926-1130-prodops		City:								
Project Location: Redbud CTB Containment		State:								
Sampler Name: Jesus Palomares		Phone #:								
FOR LAB USE ONLY		Fax #:								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS	REMARKS
1	CS-West	2-4ft	1	GROUNDWATER			03-01	10:05	Chloride	
2	CS-West	4-6ft	1	WASTEWATER				10:15	TPH (GRO+DRO+MRO)	
3	CS-01	6-8ft	1	SOIL				11:00	BTEX (Benzene)	
4	CS-01	2-4ft	1	OIL				11:12		
5	CS-01	4-6ft	1	SLUDGE				11:20		
6	CS-01	6-8ft	1	OTHER				11:30		
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Relinquished By:		Date: 03-01-24	Receiver By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:					
Relinquished By:		Time: 12:00	Received By:		All Results are emailed. Please provide Email address:					
Delivered By: (Circle One)		Date: 3-1-24	Sample Condition		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>					
Sampler - UPS - Bus - Other:		Time: 1315	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					
Corrected Temp. °C		Observed Temp. °C 3.5	CHECKED BY: (Initials) SP		Thermometer ID #140 <input type="checkbox"/> Correction Factor 0°C <input type="checkbox"/> Corrected Temp. °C					

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



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

July 23, 2024

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: REDBUD CTB CONTAINMENT

Enclosed are the results of analyses for samples received by the laboratory on 07/17/24 16:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: BS - 01 5FT (H244289-01)

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	07/18/2024	ND	1.95	97.6	2.00	2.00	
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.5	2.00	2.01	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	1.40	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.92	98.7	6.00	0.999	
Total BTEX	<0.300	0.300	07/18/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	190	94.8	200	0.837	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	182	90.9	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: BS - 01 6.5FT (H244289-02)

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	07/18/2024	ND	1.95	97.6	2.00	2.00		
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.5	2.00	2.01		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.92	98.7	6.00	0.999		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	190	94.8	200	0.837	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	182	90.9	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 01 0-2FT (H244289-03)

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	07/18/2024	ND	1.95	97.6	2.00	2.00		
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.5	2.00	2.01		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.92	98.7	6.00	0.999		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	190	94.8	200	0.837	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	182	90.9	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 01 2-4FT (H244289-04)

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	07/19/2024	ND	1.95	97.6	2.00	2.00		
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.5	2.00	2.01		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	99.9	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.92	98.7	6.00	0.999		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

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	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	190	94.8	200	0.837	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	182	90.9	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 01 5FT (H244289-05)

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	07/19/2024	ND	1.95	97.6	2.00	2.00		
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.5	2.00	2.01		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	99.9	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.92	98.7	6.00	0.999		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	190	94.8	200	0.837	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	182	90.9	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 02 0-2FT (H244289-06)

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	07/19/2024	ND	1.95	97.6	2.00	2.00	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.5	2.00	2.01	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	99.9	2.00	1.40	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.92	98.7	6.00	0.999	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

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	07/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	183	91.6	200	1.48	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	191	95.7	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 02 2-4FT (H244289-07)

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	07/19/2024	ND	1.95	97.6	2.00	2.00		
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.5	2.00	2.01		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	99.9	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.92	98.7	6.00	0.999		
Total BTEX	<0.300	0.300	07/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	183	91.6	200	1.48	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	191	95.7	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 02 5FT (H244289-08)

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	07/19/2024	ND	1.95	97.6	2.00	2.00		
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.5	2.00	2.01		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	99.9	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.92	98.7	6.00	0.999		
Total BTEX	<0.300	0.300	07/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	183	91.6	200	1.48	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	191	95.7	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 03 0-2FT (H244289-09)

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	07/19/2024	ND	1.95	97.6	2.00	2.00	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.5	2.00	2.01	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	99.9	2.00	1.40	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.92	98.7	6.00	0.999	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

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	07/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	183	91.6	200	1.48	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	191	95.7	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 03 2-4FT (H244289-10)

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	07/18/2024	ND	2.16	108	2.00	2.37		
Toluene*	<0.050	0.050	07/18/2024	ND	2.44	122	2.00	2.21	QR-03	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.43	121	2.00	2.58	QR-03	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.57	126	6.00	2.64	QR-03	
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	183	91.6	200	1.48	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	191	95.7	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 03 5FT (H244289-11)

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	07/18/2024	ND	2.16	108	2.00	2.37		
Toluene*	<0.050	0.050	07/18/2024	ND	2.44	122	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.43	121	2.00	2.58		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.57	126	6.00	2.64		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

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	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	183	91.6	200	1.48	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	191	95.7	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 04 0-2FT (H244289-12)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	2.16	108	2.00	2.37	
Toluene*	0.348	0.050	07/19/2024	ND	2.44	122	2.00	2.21	GC-NC1
Ethylbenzene*	1.34	0.050	07/19/2024	ND	2.43	121	2.00	2.58	GC-NC1
Total Xylenes*	3.53	0.150	07/19/2024	ND	7.57	126	6.00	2.64	
Total BTEX	5.22	0.300	07/19/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 222 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	437	50.0	07/19/2024	ND	183	91.6	200	1.48	
DRO >C10-C28*	11600	50.0	07/19/2024	ND	191	95.7	200	2.18	
EXT DRO >C28-C36	2790	50.0	07/19/2024	ND					

Surrogate: 1-Chlorooctane 151 % 48.2-134

Surrogate: 1-Chlorooctadecane 210 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 04 2-4FT (H244289-13)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	2.16	108	2.00	2.37	
Toluene*	<0.050	0.050	07/19/2024	ND	2.44	122	2.00	2.21	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.43	121	2.00	2.58	GC-NC
Total Xylenes*	0.239	0.150	07/19/2024	ND	7.57	126	6.00	2.64	GC-NC1
Total BTEX	<0.300	0.300	07/19/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 169 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	131	10.0	07/18/2024	ND	183	91.6	200	1.48	
DRO >C10-C28*	8630	10.0	07/18/2024	ND	191	95.7	200	2.18	
EXT DRO >C28-C36	2330	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 160 % 49.1-148

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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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: WS - 04 5FT (H244289-14)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	2.16	108	2.00	2.37	
Toluene*	<0.050	0.050	07/19/2024	ND	2.44	122	2.00	2.21	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.43	121	2.00	2.58	GC-NC
Total Xylenes*	<0.150	0.150	07/19/2024	ND	7.57	126	6.00	2.64	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 163 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	07/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	87.8	10.0	07/18/2024	ND	183	91.6	200	1.48	
DRO >C10-C28*	9320	10.0	07/18/2024	ND	191	95.7	200	2.18	
EXT DRO >C28-C36	2290	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 143 % 48.2-134

Surrogate: 1-Chlorooctadecane 178 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Amerder LLC		BILL TO		ANALYSIS REQUEST									
Project Manager: Andrew Parker		P.O. #: 20230926-1130-prodops											
Address: 0x-File		Company: Amerder LLC											
City:		Attn: aporter@amerder.com											
State:		Address:											
Zip:		City:											
Phone #:		Fax #:											
Project #:		Project Owner:											
Project Name: 20230926-1130-prodops		State:		Zip:									
Project Location: Redbud CTB		Phone #:											
Sampler Name: Jesus Palomares		Fax #:											
<small>FOR LAB USE ONLY</small>													
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					
H24289		W5-03		5ft		91		07-17		12:42		Chloride	
11		W5-04		0-2ft		11		12:50		13:00		TPH (GRO+DRO+MRO)	
12		W5-04		2-4ft		11		13:07		13:07		BTEx (Benzene)	
13		W5-04		5ft		11							
14													
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>													
Relinquished By:		Date: 7/17/24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:					
Relinquished By:		Time: 1:44		Received By:		All Results are emailed. Please provide Email address:							
Time: 1:44													
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		APD		Thermometer ID #140		Kush		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
								Correction Factor 0°C				Observed Temp. °C	
												Corrected Temp. °C	



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July 23, 2024

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: REDBUD CTB CONTAINMENT

Enclosed are the results of analyses for samples received by the laboratory on 07/18/24 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	REDBUD CTB CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	20230926-1130-PRODOPS	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: BACKFILL 01 (H244333-01)

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	07/22/2024	ND	2.23	112	2.00	0.781	
Toluene*	<0.050	0.050	07/22/2024	ND	2.43	122	2.00	1.20	
Ethylbenzene*	<0.050	0.050	07/22/2024	ND	2.38	119	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/22/2024	ND	7.27	121	6.00	1.41	
Total BTEX	<0.300	0.300	07/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

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	07/22/2024	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2024	ND	199	99.7	200	8.04	
DRO >C10-C28*	<10.0	10.0	07/22/2024	ND	199	99.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	07/22/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Notes and Definitions

- 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 "Caley D. Keene".

Caley D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amerceder LLC</u> Project Manager: <u>Andrew Parker</u> Address: <u>On-File</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>20030926-1130-prodops</u> Project Location: <u>Reland CFB</u> Sampler Name: <u>Jessie Palomares</u>		BILL TO P.O. #: <u>20030926-1130-prodops</u> Company: <u>Amerceder LLC</u> Attn: <u>aparker@amerceder.com</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		ANALYSIS REQUEST	
FOR LAB USE ONLY Lab I.D. <u>H244333</u> Sample I.D. <u>Backfill 01</u>		(G)RAB OR (C)OMP. <u>G</u> # CONTAINERS <u>1</u> MATRIX GROUNDWATER _____ WASTEWATER _____ SOIL <u>X</u> OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	PRESERV DATE <u>07-17</u> TIME <u>14:07</u>	<u>Chloride</u> <u>TPH (GRO + DRO + MRO)</u> <u>BTEX (Benzene)</u>	
Relinquished By: <u>[Signature]</u> Date: <u>07-17-24</u> Received By: <u>[Signature]</u> Date: _____ Time: _____ Relinquished By: _____ Received By: _____		REMARKS: <u>Temp Blank, 4.22</u>			
Delivered By: (Circle One) Delivered By: _____ Sampler - UPS - Bus - Other: _____		Observed Temp. °C <u>2.4</u> Corrected Temp. °C _____	Sample Condition Cool Intact <u>X</u> Yes <u>X</u> No _____ No _____	CHECKED BY: <u>[Signature]</u> Turnaround Time: _____ Thermometer ID #140 _____ Correction Factor 0°C _____	Standard <u>Rush</u> Bacteria (only) <u>Blank</u> Cool Intact <u>X</u> Yes <u>X</u> No _____ No _____

† Cardinal cannot accept verbal chat. P 32:11 mail changes to caley.keene@cardinalabsnm.com

Appendix D

07/31/2024 Liner Inspection

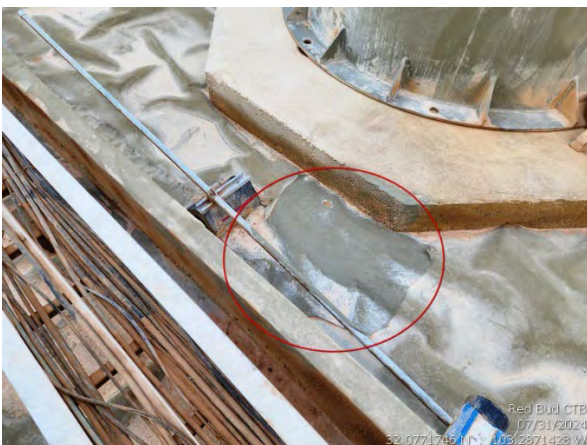


Ameredev II, LLC

nAPP2331355540
Red Bud CTB Liner Inspection

Final Liner Inspection 07/31/2024

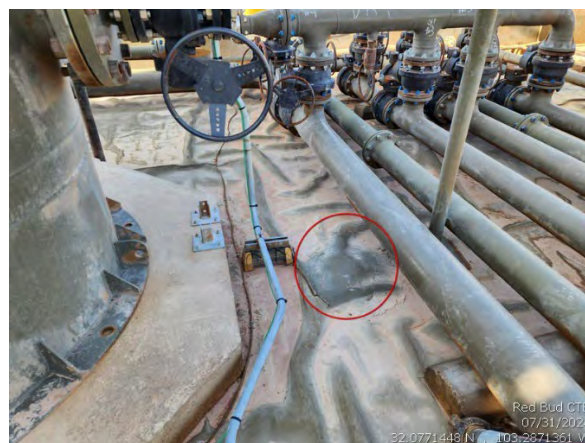
liner sampling patches holding integrity after eight (8) months since
characterization/delineation sampling in Nov. 2023
(red circles emphasize liner patches)



nAPP2331355540
Red Bud CTB Liner Inspection*Final Liner Inspection 07/31/2024*

liner sampling patches holding integrity after eight (8) months since
characterization/delineation sampling in Nov. 2023

(red circles emphasize liner patches)



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

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

QUESTIONS

Action 370303

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 370303
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2331355540
Incident Name	NAPP2331355540 20230926-1130-PRODOPS RED BUD CTB @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2203928043] RED BUD

Location of Release Source	
Please answer all the questions in this group.	
Site Name	20230926-1130-PRODOPS RED BUD CTB
Date Release Discovered	11/08/2023
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Tank (Any) Crude Oil Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Tank (Any) Produced Water Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Volume unknown, please refer to text

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

QUESTIONS, Page 2

Action 370303

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	370303
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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	tanks identified as source of release have been taken out of use

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Environmental Scientist Email: aparker@ameredev.com Date: 08/05/2024
--	--

District I

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Phone:(575) 393-6161 Fax:(575) 393-0720

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District III

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 370303

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:
	372224
	Action Number:
	370303
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	3000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	18410
GRO+DRO (EPA SW-846 Method 8015M)	16630
BTEX (EPA SW-846 Method 8021B or 8260B)	169
Benzene (EPA SW-846 Method 8021B or 8260B)	2

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	07/17/2024
On what date will (or did) the final sampling or liner inspection occur	07/31/2024
On what date will (or was) the remediation complete(d)	07/17/2024
What is the estimated surface area (in square feet) that will be reclaimed	32
What is the estimated volume (in cubic yards) that will be reclaimed	6
What is the estimated surface area (in square feet) that will be remediated	32
What is the estimated volume (in cubic yards) that will be remediated	6

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4
Action 370303

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	370303
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Environmental Scientist Email: aparker@ameredev.com Date: 08/05/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 370303

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	370303
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Remediating within tank battery containment (Figure 4) would cause structure instability resulting in major facility deconstruction and the interruption of oil and gas production.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2200
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	162
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	RED BUD [fAPP2203928043]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Environmental Scientist Email: aparker@ameredev.com Date: 08/05/2024

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QUESTIONS, Page 6

Action 370303

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID:	372224
	Action Number:	370303
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	364235
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/18/2024
What was the (estimated) number of samples that were to be gathered	13
What was the sampling surface area in square feet	100

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 370303

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 370303
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of WS-04 and S-01 through S-18 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	8/12/2024