

Inspection Photos

7/20/2023

Operator: CAERUS PICEANCE LLC #10456

Location Number: 479215

Garfield County, CO

Aaron Trujillo
NW Reclamation Specialist
CECMC



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**Energy & Carbon Management
Commission**

Department of Natural Resources

Colorado Oil and Gas Conservation Commission

ELU G13-496, #479215 Annotation Report



Created on July 27, 2023

Captured on July 20, 2023



Location

NAD83(2011) / Colorado North (ftUS) (US survey foot)

Label	Title	Elevation	Lat, Long	Northing, Easting
1 	Culvert	-5.43 US ft	39.7065751, -108.1156094	1146813.7 US ft, 2264181.6 US ft
2 	Diversion Ditch	5.03 US ft	39.7046092, -108.1156928	1146098.6 US ft, 2264137.0 US ft
3 	Culvert	-3.57 US ft	39.7045824, -108.1159543	1146091.0 US ft, 2264063.1 US ft
4 	Spillway	-39.10 US ft	39.7046151, -108.1169498	1146111.2 US ft, 2263783.5 US ft
5 	Spillway	-19.77 US ft	39.7061874, -108.1174631	1146688.0 US ft, 2263656.1 US ft
6 	Sediment trap	-17.18 US ft	39.7068940, -108.1164181	1146936.6 US ft, 2263957.5 US ft
7 	Berm- working pad perimeter	-0.33 US ft	39.7056062, -108.1170515	1146472.9 US ft, 2263765.6 US ft

Area

Label	Title	Horizontal Length	Horizontal Width	Area	Surface Area
8 	Disturbance area	--	--	9.96 acres	10.60 acres
9 	Cut Slopes	--	--	0.51 acres	0.56 acres
10 	Slope Drain	--	--	3168.39 ft ²	3474.64 ft ²
11 	Slope Drain	--	--	4245.78 ft ²	5216.42 ft ²
12 	Topsoil protections	--	--	1156.23 ft ²	1331.94 ft ²

Volume

Label	Title	Area	Cut	Fill	Net	Tolerance
13 	Topsoil	1.16 acres	15413.04 y ³	2039.32 y ³	-13373.72 y ³	0 ft
14 	NW Sediment trap	8104.77 ft ²	41.94 y ³	851.60 y ³	809.66 y ³	0 ft
15 	Northern Sediment Trap	2121.84 ft ²	1.02 y ³	155.39 y ³	154.37 y ³	0 ft
16 	SW Sediment Trap	3651.20 ft ²	6.42 y ³	513.28 y ³	506.86 y ³	0 ft

Colorado Oil and Gas Conservation Commission



ELU G13-496, #479215 Issue Report

Created on July 27, 2023

Captured on July 20, 2023



Type	Count
Missing Part	9
Observation	1

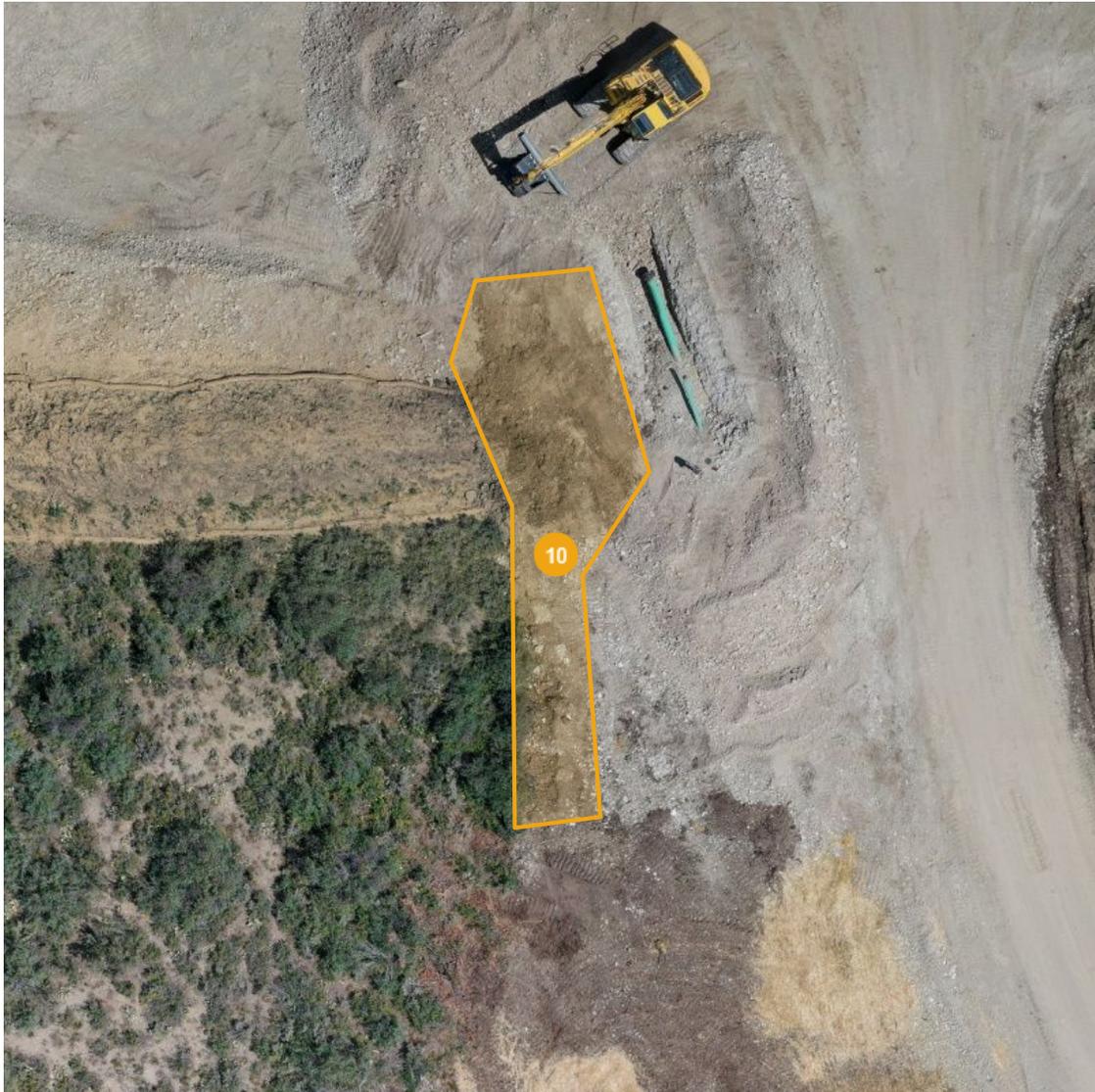
No.	Type	Severity	Created	Status	Cost of Repair
1	✦ Missing Part	—	July 27, 2023	Open	—
2	✦ Missing Part	—	July 27, 2023	Open	—
3	✦ Missing Part	—	July 27, 2023	Open	—
4	📍 Missing Part	—	July 27, 2023	Open	—
5	📍 Missing Part	—	July 27, 2023	Open	—
6	📍 Missing Part	—	July 27, 2023	Open	—
7	📍 Missing Part	—	July 27, 2023	Open	—
8	📍 Missing Part	—	July 27, 2023	Open	—
9	📍 Observation	—	July 27, 2023	Open	—
10	✦ Missing Part	—	July 27, 2023	Open	—

Total: \$0.00

10 - Missing Part

Open

Jul 20, 2023 at 11:30am



Details

Summary: **BMPs to protect topsoil, as well as to minimize erosion, degradation and sediment transport, as well as to ensure soils remain segregated remain missing or insufficient.**

Created: **Jul 27, 2023, 9:37am by Aaron Trujillo**

Cost of Repair: **—**

Lat/Long: **39.70455, -108.11615**

Area: **1156.23 ft²**

Surface Area: **1331.94 ft²**

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Operator Name: CAERUS PICEANCE LLC #10456

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Photo taken from the pipeline excavation on the south end of the Location; BMPs to protect the topsoil, ensure soils remain segregated, as well as to minimize erosion and degradation remain missing or insufficient.



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Photos examples showing topsoil stockpiles on the south end of the Location lack control measures to protect the topsoil, ensure soils remain segregated, controls to minimize erosion and degradation and offsite sediment transport.

Photo left also shows sediment trap and culvert at Location entrance has not been installed.



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Photos examples showing topsoil stockpiles on the south end of the Location lack control measures to protect the topsoil, ensure soils remain segregated, controls to minimize erosion and degradation and offsite sediment transport.



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8 - Missing Part

Open

Jul 20, 2023 at 11:30am



Details

Summary:	Spillway (outlet) with rip rap armoring per the Construction Layout Drawing not installed.
Created:	Jul 27, 2023, 8:16am by Aaron Trujillo
Cost of Repair:	—
Lat/Long:	39.7061874, -108.1174631
Northing:	1146688.0 US ft
Easting:	2263656.1 US ft
Elevation:	-19.77 US ft

NAD83(2011) / Colorado North (ftUS) (US survey foot)

7 - Missing Part

Open

Jul 20, 2023 at 11:30am



Details

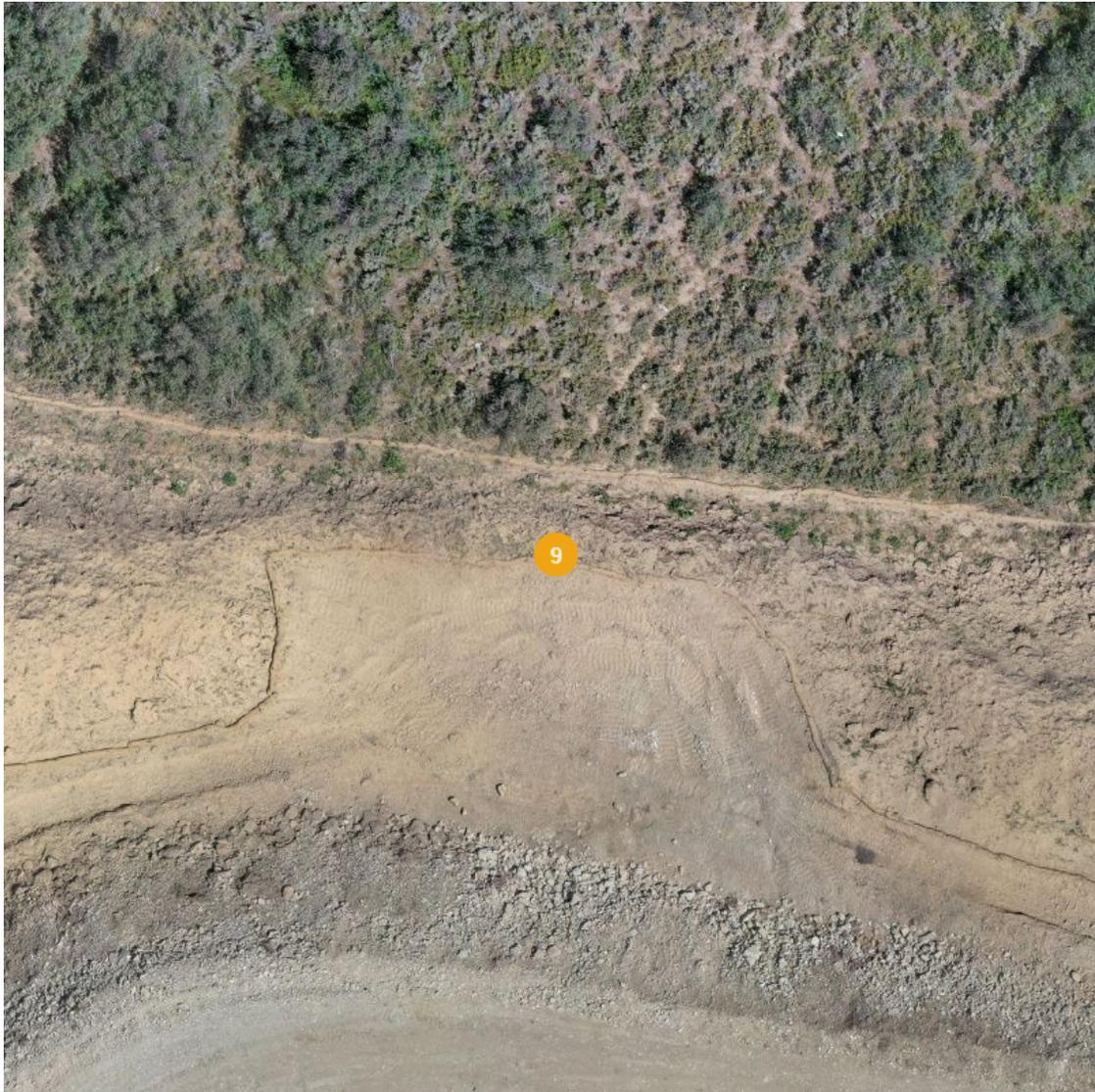
Summary:	Spillway (outlet) with rip rap armoring per the Construction Layout Drawing not installed.
Created:	Jul 27, 2023, 8:15am by Aaron Trujillo
Cost of Repair:	—
Lat/Long:	39.7046151, -108.1169498
Northing:	1146111.2 US ft
Easting:	2263783.5 US ft
Elevation:	-39.10 US ft

NAD83(2011) / Colorado North (ftUS) (US survey foot)

9 - Observation

Open

Jul 20, 2023 at 11:30am



Details

Summary: **Additional sediment trap not listed on the Construction Layout Drawing. Control measure has not been constructed with an engineered outlet/spillway.**

Created: **Jul 27, 2023, 8:17am by Aaron Trujillo**

Cost of Repair: **—**

Lat/Long: **39.7068940, -108.1164181**

Northing: **1146936.6 US ft**

Easting: **2263957.5 US ft**

Elevation: **-17.18 US ft**

NAD83(2011) / Colorado North (ftUS) (US survey foot)

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Northern/Northwestern “retention ponds”. “Spillways” (engineered outlet) w/ Riprap not installed.



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Operator Name: CAERUS PICEANCE LLC #10456
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Southwestern “retention pond”. “Spillway” (engineered outlet) w/ Riprap not installed.



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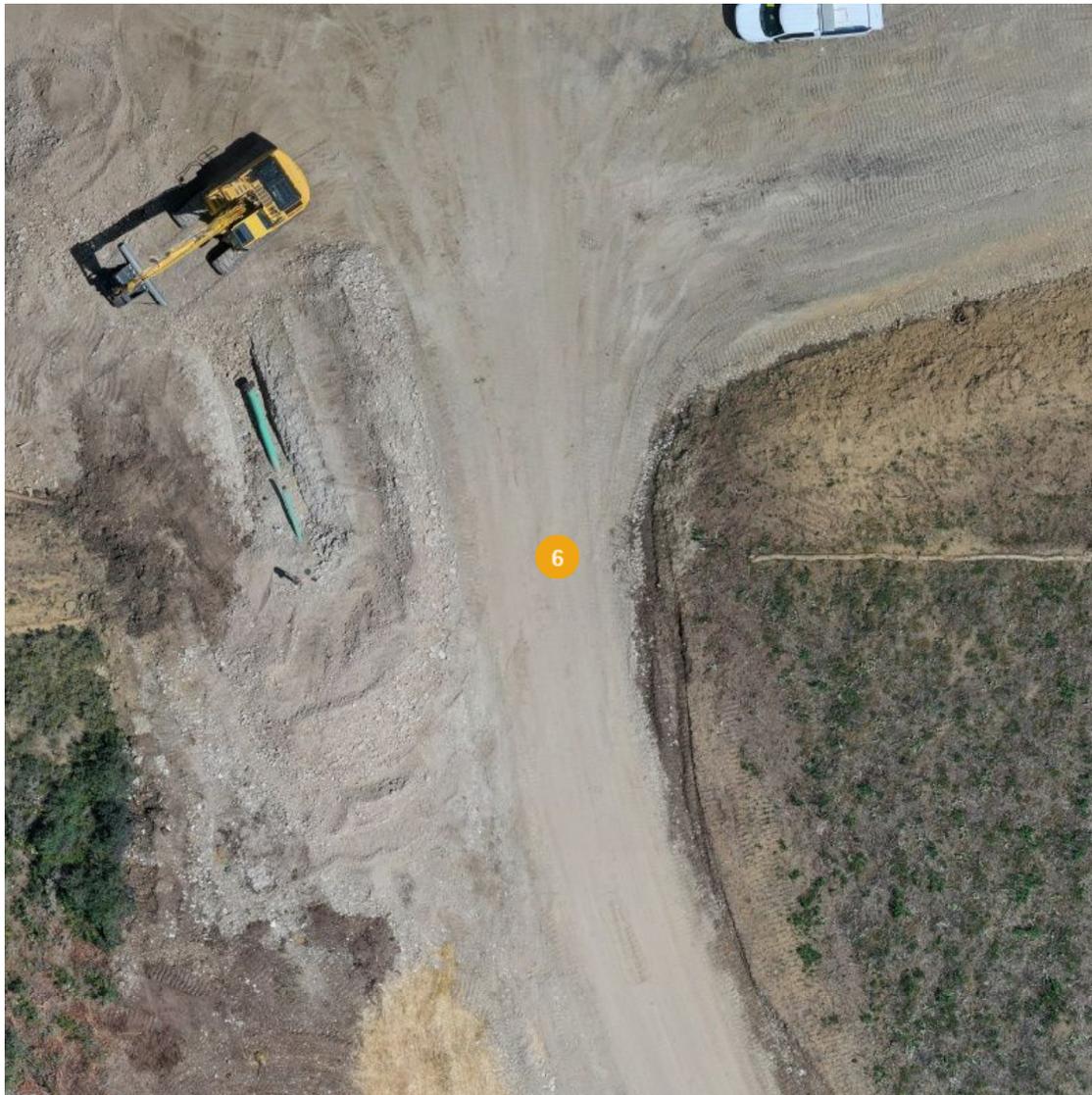
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6 - Missing Part

Open

Jul 20, 2023 at 11:30am



Details

Summary:

40' 18-inch CMP not installed.

Created:

Jul 27, 2023, 8:14am by Aaron Trujillo

Cost of Repair:

—

Lat/Long:

39.7045824, -108.1159543

Northing:

1146091.0 US ft

Easting:

2264063.1 US ft

Elevation:

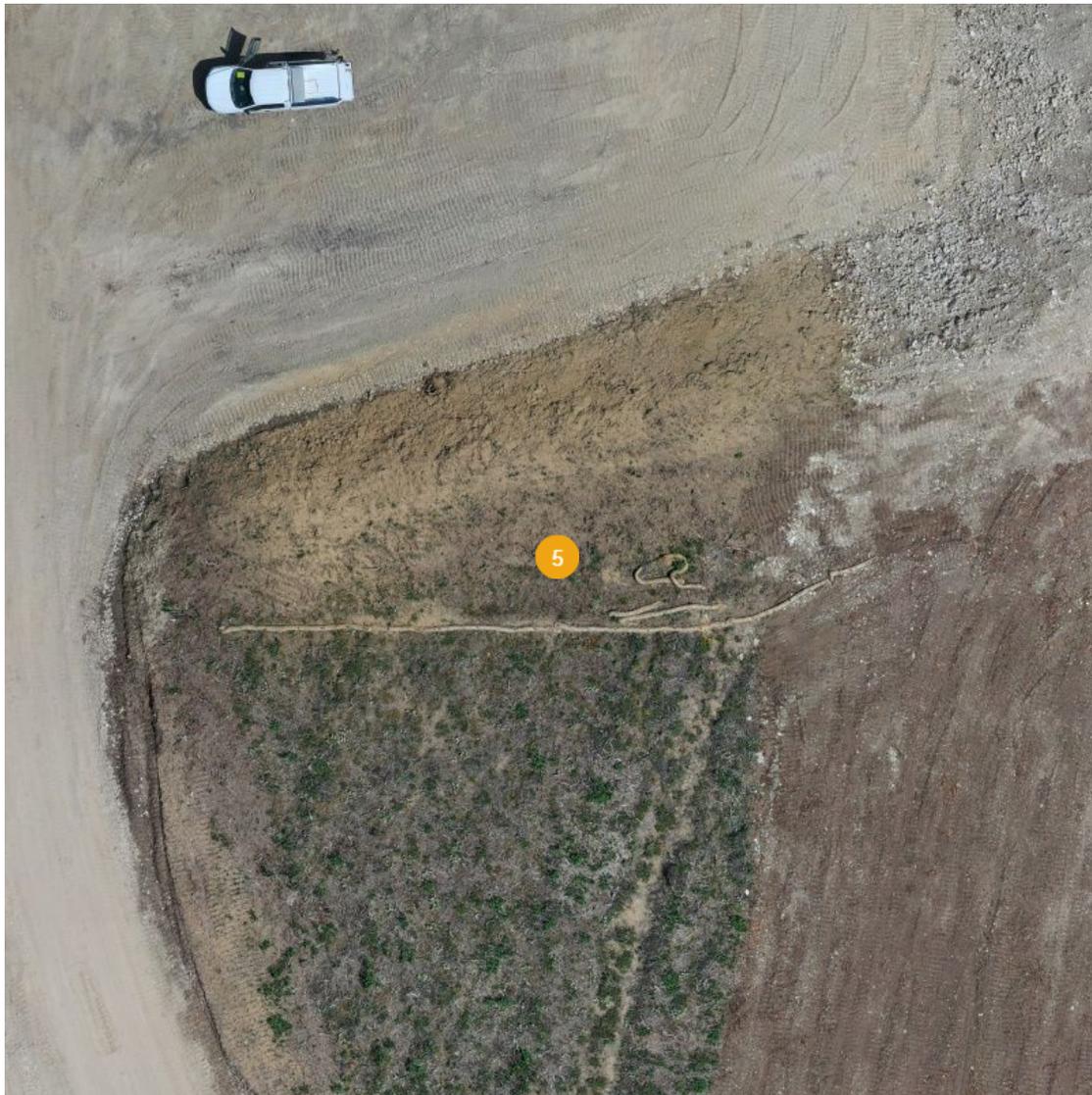
-3.57 US ft

NAD83(2011) / Colorado North (ftUS) (US survey foot)

5 - Missing Part

Open

Jul 20, 2023 at 11:30am



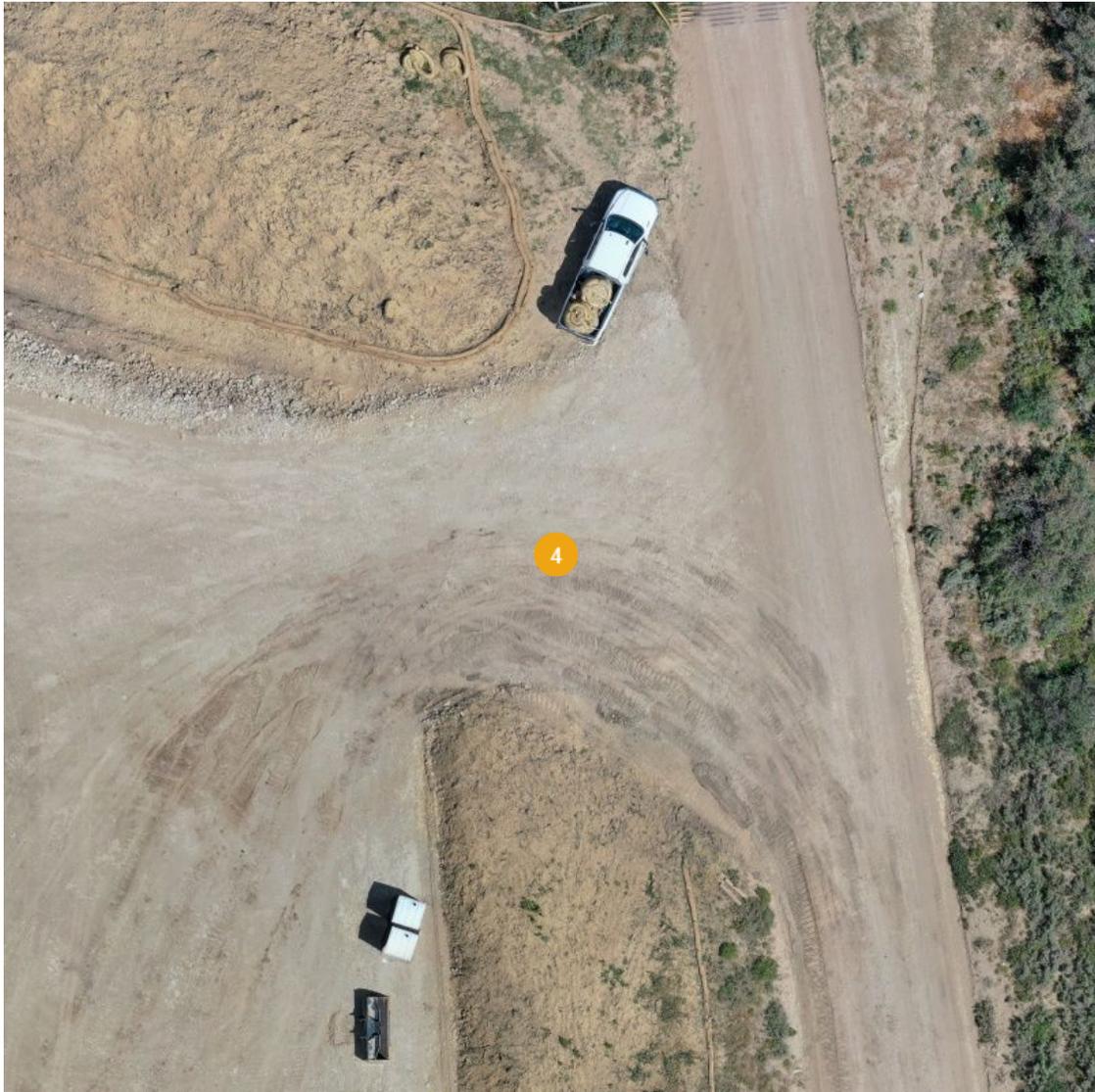
Details

Summary:	Diversion Ditch per the Construction Layout Drawing not installed.
Created:	Jul 27, 2023, 8:14am by Aaron Trujillo
Cost of Repair:	—
Lat/Long:	39.7046092, -108.1156928
Northing:	1146098.6 US ft
Easting:	2264137.0 US ft
Elevation:	5.03 US ft
NAD83(2011) / Colorado North (ftUS) (US survey foot)	

4 - Missing Part

Open

Jul 20, 2023 at 11:30am



Details

Summary:

40' 18-inch CMP not installed.

Created:

Jul 27, 2023, 8:13am by Aaron Trujillo

Cost of Repair:

—

Lat/Long:

39.7065751, -108.1156094

Northing:

1146813.7 US ft

Easting:

2264181.6 US ft

Elevation:

-5.43 US ft

NAD83(2011) / Colorado North (ftUS) (US survey foot)

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Northern Location entrance. Culvert not observed.



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3 - Missing Part

Open

Jul 20, 2023 at 11:30am



Details

Summary:

Slope drain per the Construction Layout Drawing not installed.

Created:

Jul 27, 2023, 8:12am by Aaron Trujillo

Cost of Repair:

—

Lat/Long:

39.70639, -108.11711

Area:

4245.78 ft²

Surface Area:

5216.42 ft²

2 - Missing Part

Open

Jul 20, 2023 at 11:30am



Details

Summary:	Slope drain per the Construction Layout Drawing not installed.
Created:	Jul 27, 2023, 8:11am by Aaron Trujillo
Cost of Repair:	—
Lat/Long:	39.70470, -108.11647
Area:	3168.39 ft ²
Surface Area:	3474.64 ft ²

1 - Missing Part

Open

Jul 20, 2023 at 11:30am



Details

Summary:

Control Measures remain missing or insufficient at the cut slopes.

Created:

Jul 27, 2023, 7:57am by Aaron Trujillo

Cost of Repair:

—

Lat/Long:

39.70513, -108.11552

Area:

0.51 acres

Surface Area:

0.56 acres

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Controls remain missing or insufficient on large sections of the cut slope.



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Controls to stabilize slopes, and to minimize erosion and degradation only applied to select sections of the cut slopes.



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Signage remains missing at Location entrance; permit information posted within “infotube”



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Photo example showing hydromulch has been applied to the majority of the topsoil stockpiles on the Location.



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Photos examples of erosion logs observed on the Location that remain in disrepair, or have not been installed in accordance with good engineering practices.



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