QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #5

Inspection Period: First Quarter 2024

Inspection Date: 03/26/24

General Description or Reference to Site Plan:

This pond is located West of the area of mining scheduled for 2001-2002. The pond is partially incised into bedrock and the embankment keyed into bedrock. Side slopes are less than 2H:1V. The primary discharges south into Cow Canyon drainage.

EMBANKMENT

1.	Adequacy of the vegetative cover:	[Excellent]	Moderate	Few	Poor
2.	Erosion forming Gullies:	Extensive	Some	Few	[None]
3.	Is wave action causing erosion:				
	On the upstream embankment?	Yes		No	X
	At the principal spillway inlet?	Yes		No	X
4.	Erosion of the downstream toe of the embankment?	Yes		No	X
	Cause of erosion can be attributed to:				
5.	Is seepage occurring through the dam?	Yes		No	X
	Could this seepage cause potential instability?				

PRINICIPAL SPILLWAY

1.	Is the principal spillway system in working order?	Yes X	No
2.	Is the inlet free of debris and restrictive material?	Yes X	No
3.	Is the discharge outlet free of restrictive material?	Yes X	No
4.	Is erosion occurring at the discharge outlet?	Yes	No X

Evaluate the severity: Extensive Moderate Just Starting [None]

NPDES ID. No.: 5

EMERGENCY SPILLWAY

1. Does it appear that the emergency spillway has discharged water since the last inspection?

   YES_____ NO__X__

2. Is erosion occurring at any section of the emergency spillway?

   YES_____ NO__X__

SEDMIMENT STORAGE CAPACITY

1. Has the design storage capacity of the reservoir been surpassed?

   YES_____ NO__X__

   Explain: Sediment in pond does not appear to be over capacity by visual inspection.

OTHER OBSERVATIONS

Pond was empty at time of inspection. Ground Covered in Snow during inspection.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #6

Inspection Period: First Quarter 2024

Inspection Date: 3/26/24

General Description or Reference to Site Plan:

This pond is located south of the area of mining scheduled for 2001-2002. The pond is partially incised into bedrock and the embankment keyed into bedrock. Side slopes are less than 2H:1V. The primary discharges south into Jeff Canyon drainage.

EMBANKMENT

6. Adequacy of the vegetative cover: [Excellent] Moderate Few Poor
7. Erosion forming Gullies: Extensive Some Few [None]
8. Is wave action causing erosion:
   - On the upstream embankment? Yes ____ No X
   - At the principal spillway inlet? Yes ____ No X
9. Erosion of the downstream toe of the embankment? Yes ____ No X

   Cause of erosion can be attributed to: ____

10. Is seepage occurring through the dam? Yes ____ No X

    Could this seepage cause potential instability? ____

PRINICIPAL SPILLWAY

5. Is the principal spillway system in working order? Yes X No ____
6. Is the inlet free of debris and restrictive material? Yes X No ____
7. Is the discharge outlet free of restrictive material? Yes X No ____
8. Is erosion occurring at the discharge outlet? Yes ____ No X

Evaluate the severity: Extensive Moderate Just Starting [None]

NPDES ID. No.: 6

EMERGENCY SPILLWAY

3. Does it appear that the emergency spillway has discharged water since the last inspection?

YES_____ NO__X__

4. Is erosion occurring at any section of the emergency spillway?

YES_____ NO__X__

SEDMIMENT STORAGE CAPACITY

2. Has the design storage capacity of the reservoir been surpassed?

YES_____ NO__X__

Explain: Visual observation

OTHER OBSERVATIONS

Pond was holding water and was frozen at time of inspection, not near the bottom of the decant. Ground Covered in Snow during inspection.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #7

Inspection Period: First Quarter 2024

Inspection Date: 03/20/24

General Description or Reference to Site Plan:

This pond is located south of the area of mining scheduled for 2001-2002. The pond is partially incised into bedrock and the embankment keyed into bedrock. Side slopes are less than 2H:1V. The primary discharges south into Jeff Canyon drainage.

EMBANKMENT

11. Adequacy of the vegetative cover: [Excellent] Moderate Few Poor
12. Erosion forming Gullies: Extensive Some Few [None]
13. Is wave action causing erosion:
    - On the upstream embankment? Yes ____ No X
    - At the principal spillway inlet? Yes ____ No X
14. Erosion of the downstream toe of the embankment? Yes ____ No X

    Cause of erosion can be attributed to: ____

15. Is seepage occurring through the dam? Yes ____ No X

    Could this seepage cause potential instability? ____

PRINICIPAL SPILLWAY

9. Is the principal spillway system in working order? Yes X No ____
10. Is the inlet free of debris and restrictive material? Yes X No ____
11. Is the discharge outlet free of restrictive material? Yes X No ____
12. Is erosion occurring at the discharge outlet? Yes ____ No X

Evaluate the severity: Extensive Moderate Just Starting [None]

NPDES ID. No.: 7

EMERGENCY SPILLWAY

5. Does it appear that the emergency spillway has discharged water since the last inspection?

YES_____ NO__X__

6. Is erosion occurring at any section of the emergency spillway?

YES_____ NO__X__

SEDMIMENT STORAGE CAPACITY

3. Has the design storage capacity of the reservoir been surpassed?

YES_____ NO__X__

Explain: Visual observation

OTHER OBSERVATIONS

Pond was not holding any amount of water at time of inspection. Not discharging.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #8

Inspection Period: First Quarter 2024

Inspection Date: 03/29/24

General Description or Reference to Site Plan:

This pond is located south of the area of mining scheduled for 2001-2002. The pond is partially incised into bedrock and the embankment keyed into bedrock. Side slopes are less than 2H:1V. The primary discharges south into Jeff Canyon drainage.

EMBANKMENT

1. Adequacy of the vegetative cover: [Excellent] Moderate Few Poor
2. Erosion forming Gullies: Extensive Some Few [None]
3. Is wave action causing erosion:
   - On the upstream embankment? Yes ____ No X
   - At the principal spillway inlet? Yes ____ No X
4. Erosion of the downstream toe of the embankment? Yes ____ No X

   Cause of erosion can be attributed to: ____

5. Is seepage occurring through the dam? Yes ____ No X

   Could this seepage cause potential instability? ____

PRINICIPAL SPILLWAY

1. Is the principal spillway system in working order? Yes X No ____
2. Is the inlet free of debris and restrictive material? Yes X No ____
3. Is the discharge outlet free of restrictive material? Yes X No ____
4. Is erosion occurring at the discharge outlet? Yes ____ No X

Evaluate the severity: Extensive Moderate Just Starting [None]

NPDES ID. No.: 8

EMERGENCY SPILLWAY

1. Does it appear that the emergency spillway has discharged water since the last inspection?

   YES X NO

2. Is erosion occurring at any section of the emergency spillway?

   YES NO X

SEDMIMENT STORAGE CAPACITY

1. Has the design storage capacity of the reservoir been surpassed?

   YES NO X

   Explain: Visual observation

OTHER OBSERVATIONS

Pond was holding water at the time of inspection. Appears to have not discharged recently.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #9 (North)

Inspection Period: First Quarter 2024

Inspection Date: 3/29/24

General Description or Reference to Site Plan:

This pond is located south of the area of mining scheduled for 2001-2002. The pond is partially incised into bedrock and the embankment keyed into bedrock. Side slopes are less than 2H:1V. The primary discharges north into a small unnamed drainage.

EMBANKMENT

6. Adequacy of the vegetative cover: [Excellent] Moderate Few Poor
7. Erosion forming Gullies: Extensive Some Few [None]
8. Is wave action causing erosion:
   - On the upstream embankment? Yes ____ No X
   - At the principal spillway inlet? Yes ____ No X
9. Erosion of the downstream toe of the embankment? Yes ____ No X

   Cause of erosion can be attributed to: ____

10. Is seepage occurring through the dam? Yes ____ No X

    Could this seepage cause potential instability? ____

PRINICIPAL SPILLWAY

5. Is the principal spillway system in working order? Yes X No ____
6. Is the inlet free of debris and restrictive material? Yes X No ____
7. Is the discharge outlet free of restrictive material? Yes X No ____
8. Is erosion occurring at the discharge outlet? Yes ____ No X

Evaluate the severity: Extensive Moderate Just Starting [None]

NPDES ID. No.: 9

EMERGENCY SPILLWAY

3. Does it appear that the emergency spillway has discharged water since the last inspection?

YES_____ NO__X__

4. Is erosion occurring at any section of the emergency spillway?

YES_____ NO__X__

SEDMIMENT STORAGE CAPACITY

2. Has the design storage capacity of the reservoir been surpassed?

YES_____ NO__X__

Explain: Visual observation

OTHER OBSERVATIONS

Pond was holding some water at time of inspection. Not near the level of the decant.

QUARTERLY SEDIMENTATION POND INSPECTION REPORT

CDMR Rule 4.05.9(17)

Mine: Lorencito

NPDES ID. No.: Pond #9A (South)

Inspection Period: First Quarter 2024

Inspection Date: 03/26/24

General Description or Reference to Site Plan:

This pond is located south of the area of mining scheduled for 2001-2002. The pond is partially incised into bedrock and the embankment keyed into bedrock. Side slopes are less than 2H:1V. The primary discharges south into Jeff Canyon.

EMBANKMENT

11.	Adequacy of the vegetative cover:	[Excellent]	Moderate	Few	Poor
12.	Erosion forming Gullies:	Extensive	Some	Few	[None]
13.	Is wave action causing erosion:				
	On the upstream embankment?	Yes		No	X
	At the principal spillway inlet?	Yes		No	X
14.	Erosion of the downstream toe of the embankment?	Yes		No	X
	Cause of erosion can be attributed to:				
15.	Is seepage occurring through the dam?	Yes		No	X
	Could this seepage cause potential instability?				

PRINICIPAL SPILLWAY

9.	Is the principal spillway system in working order?	Yes X	No
10.	Is the inlet free of debris and restrictive material?	Yes X	No
11.	Is the discharge outlet free of restrictive material?	Yes X	No
12.	Is erosion occurring at the discharge outlet?	Yes	No X

Evaluate the severity: Extensive Moderate Just Starting [None]

NPDES ID. No.: 9A

EMERGENCY SPILLWAY

5. Does it appear that the emergency spillway has discharged water since the last inspection?

YES_____ NO__X__

6. Is erosion occurring at any section of the emergency spillway?

YES_____ NO__X__

SEDMIMENT STORAGE CAPACITY

3. Has the design storage capacity of the reservoir been surpassed?

YES_____ NO__X__

Explain: Visual observation

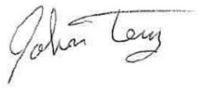
OTHER OBSERVATIONS

Pond was holding water and was frozen at time of inspection. Does not appear to have recently discharged. Ground Covered in Snow during inspection.

CERTIFICATION

This inspection was conducted by John Terry, a qualified professional and MSHA certified inspector of earth and rock-fill embankments, waste banks and impoundments, under the direction of Mr. Steve Miller, a registered professional engineer licensed in the State of Colorado.

This is to certify, to the best of my knowledge and belief, that maintenance, since the previous certification and as determined during this inspection and discussions with mine personnel, is in accordance with designs as approved by the Division of Reclamation, Mining and Safety.



03/29/2024

Inspector Date

Inspections completed in compliance with Rule 4.09.1(11)(b) must be submitted to the Division within two weeks of Completion