



TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

HEADQUARTERS: P.O. BOX 33695 DENVER, COLORADO 80233-0695 303-452-6111

December 19, 2018

Sent via email: brock.bowles@state.co.us

Mr. Brock Bowles
Environmental Protection Specialist
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203

**RE: New Horizon North Mine
Permit No. C-2010-089
4th Quarter 2018 Impoundment Inspections**

Dear Mr. Bowles:

Elk Ridge Mining and Reclamation, LLC (Elk Ridge) operates the New Horizon North Mine. Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent company of Elk Ridge. The New Horizon North Mine operates under Colorado Division of Reclamation, Mining and Safety (CDRMS) Permit No. C-2010-089.

In accordance with Rule 4.05.9(17), Tri-State is submitting the enclosed quarterly impoundment inspection on behalf of Elk Ridge.

If you have any questions about the enclosed quarterly impoundment reports, please contact Tony Tennyson at (970) 825-1232 at your convenience.

Sincerely,

Dan Casiraro
Senior Manager
Environmental Services

DJC:TT:der

Enclosures

cc: Frank Ferris (via email)
Chris Gilbreath (via email)
Jason Storey (via email)
Tony Tennyson (via email)
G747-11.3(21)c-8

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

A Touchstone Energy® Cooperative



CRAIG STATION
P.O. BOX 1307
CRAIG, CO 81626-1307
970-824-4411

ESCALANTE STATION
P.O. BOX 577
PREWITT, NM 87045
505-972-5200

NUCLA STATION
P.O. BOX 698
NUCLA, CO 81424-0698
970-864-7316

2018 ANNUAL IMPOUNDMENT INSPECTION

Mine: **New Horizon North Mine**
 Pond Name: **Pond 001**
 NPDES Permit & Outfall #: **CO-850062**
 Date Inspected: **12-December-2018**
 Location Description: **2.4 miles NW of Nucla**

Owner's Rep.: **Frank Ferris, Mine Manager**
 Pond Type: **Partly Incised**
 CDRM & S #: **C-2010-089**
 Date Last Inspected: **1-October-2017**
 Legal Location: **Sec 25 of T47N R16W**
 Inspector's Name: **Frank Ferris**

Pond Capacity Data

As Built Pond Embankment elev.: **5679.0** As Built Pond Bottom elev.: **5666.0**
 As Built Pond Emergency Spillway elev.: **5676.5** As Built Pond Primary Spillway elev.: **5675.5**
 As Built Pond Capacity (pond bottom to primary spillway) per As Built **7.9 ac-ft**
 Existing Pond Capacity (pond bottom to primary spillway): As Built Volume - SV = **7.9 ac-ft**
 Sediment Volume (SV) at Inspection: **0**
 Surface Water elev. **Dry** - Surveyed Pond Bottom elev. **5666** = Water Depth **Dry**
 Water Volume (WV) in Pond **Dry** (using as built capacity table & surface water elevation and then
 subtracting sediment volume under water level)
 Pond Capacity Available below primary spillway **7.9 ac-ft** [As Built Pond Capacity - WV -
 Inflow volume from 10-yr 24-hr storm runoff event **11.09 ac-ft**

Note:

Circle or Write appropriate Response

- | | | | | |
|-----|--|-----|-------------------------------------|-----|
| 1. | Seepage (specify location, color, and approx. volume) _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 2. | Cracks or scarps on crest or slopes _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 3. | Sloughing or bulging on slopes _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 4. | Major erosion problems _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 5. | Surface movements in valley bottom or on hillside _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 6. | Water impounded against toe _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 7. | Clogging | | | |
| | a) Spillway channels and pipes _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| | b) Decant system _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| | c) Diversion Ditches _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 8. | Cracking or crushing of pipes | | | |
| | a) Spillway pipes _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| | b) Decant system _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 9. | Trash racks clear and in place _____ | Yes | <input checked="" type="checkbox"/> | No |
| 10. | Monitoring instrumentation in place & functioning _____ | Yes | <input checked="" type="checkbox"/> | No |

Comments: **Reduced Pond 001 volume by filling in the north 1/3 of the pond.**



2018 ANNUAL IMPOUNDMENT INSPECTION

Mine: **New Horizon North Mine**

Owner's Rep.: **Frank Ferris, Mine Manager**

Pond Name: **Pond 002**

Pond Type: **Partly Incised**

NPDES Permit & Outfall #: **CO-850062**

CDRM & S #: **C-2010-089**

Date Inspected: **25-October-2017**

Date Last Inspected: **3-March-2016**

Location Description: **2.4 miles NW of Nucla**

Legal Location: **Sec 25 of T47N R16W**

Inspector's Name: **Frank Ferris**

Pond Capacity Data

As Built Pond Embankment elev.: **5685.0**

As Built Pond Bottom elev.: **5673.0**

As Built Pond Emergency Spillway elev.: **5682.9**

As Built Pond Primary Spillway elev.: **5682.0**

As Built Pond Capacity (pond bottom to primary spillway) per As Built **12.9 ac-ft**

Existing Pond Capacity (pond bottom to primary spillway): As Built Volume - SV = **12.9 ac-ft**

Sediment Volume (SV) at Inspection: **None**

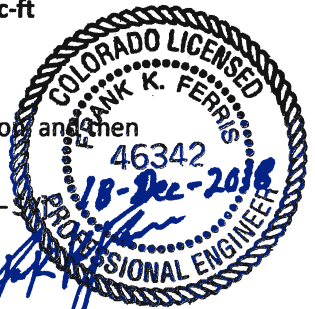
Surface Water elev. ~**Dry** - As-built Pond Bottom elev. **5673.0** = Water Depth **NA**

Water Volume (WV) in Pond ~**DRY** (using as built capacity table & surface water elevation and then subtracting sediment volume under water level)

Pond Capacity Available below primary spillway **12.9 ac-ft** [As Built Pond Capacity - WV - SV]

Inflow volume from 10-yr 24-hr storm runoff event **8.6 ac-ft**

Note: Dry



Circle or Write appropriate Response

- | | | | | |
|-----|---|-------------------------------------|-------------------------------------|-----|
| 1. | Seepage (specify location, color, and approx. volume) _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 2. | Cracks or scarps on crest or slopes _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 3. | Sloughing or bulging on slopes _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 4. | Major erosion problems _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 5. | Surface movements in valley bottom or on hillside _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 6. | Water impounded against toe _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 7. | Clogging | | | |
| | a) Spillway channels and pipes _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| | b) Decant system _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| | c) Diversion Ditches _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 8. | Cracking or crushing of pipes | | | |
| | a) Spillway pipes _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| | b) Decant system _____ | Yes | <input checked="" type="checkbox"/> | N/A |
| 9. | Trash racks clear and in place _____ | <input checked="" type="checkbox"/> | No | N/A |
| 10. | Monitoring instrumentation: in place & functioning _____ | <input checked="" type="checkbox"/> | No | N/A |

Comments: **Reduced Pond 002 volume by filling in the northeast and southeast corners of the pond.**