



**TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.**

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

October 21, 2019

VIA Electronic Mail: [janet.binns@state.co.us](mailto:janet.binns@state.co.us)

Ms. Janet Binns  
Division of Reclamation, Mining, & Safety  
Coal Program Support Staff  
1313 Sherman Street, RM 215  
Denver, Colorado 80203

RE: September 2019 Discharge Monitoring Report Submittal  
CDPS Permit #CO-0000213  
Elk Ridge Mining and Reclamation, New Horizon Mine  
DRMS Mine Permit #C-1981-008

Dear Ms. Binns:

Enclosed are the Discharge Monitoring Reports (DMR) for the Elk Ridge Mining and Reclamation, LLC, New Horizon Mine CDPS Permit No. CO-0000213 for September 2019. Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent to Elk Ridge Mining and Reclamation. The enclosed September DMRs were submitted electronically through the EPA's NetDMR program.

If you have any questions about the enclosed reports, please contact Darlene Crosby at 303-254-3055.

Sincerely,

Daniel J. Casiraro  
Senior Manager  
Environmental Services

DJC:DC:der

Enclosures

cc: Darlene Crosby (via email)  
Jason Carver (via email)  
Chantell Johnson (via email)  
File G474-11.3(10)a-9a

**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

**From:** [netdmr-notification@epa.gov](mailto:netdmr-notification@epa.gov)  
**To:** [Crosby, Darlene](#); [Johnson, Chantell](#); [Walz, Barbara](#)  
**Subject:** [EXTERNAL] NetDMR DMR(s) Submittal Passed for: CO0000213  
**Date:** Monday, October 21, 2019 5:49:18 PM

---

The following signed 4 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: \_d6724b11-82cc-423e-b533-b25920512ddb  
User ID: BARBARAWALZ1  
Timestamp: 10/21/2019 18:51:06  
-----

Permitted Facility Name: NEW HORIZON MINE  
Permit ID: CO0000213  
Permitted Feature: 012  
Discharge: A - SR and Mine Drainage to Tuttle Draw  
Monitoring Period End Date: 09/30/19  
-----

Permitted Facility Name: NEW HORIZON MINE  
Permit ID: CO0000213  
Permitted Feature: 012  
Discharge: Q - Quarterly Monitoring for 012A  
Monitoring Period End Date: 09/30/19  
-----

Permitted Facility Name: NEW HORIZON MINE  
Permit ID: CO0000213  
Permitted Feature: 013  
Discharge: Q - Quarterly Monitoring for 013A  
Monitoring Period End Date: 09/30/19  
-----

Permitted Facility Name: NEW HORIZON MINE  
Permit ID: CO0000213  
Permitted Feature: 013  
Discharge: X - CHRONIC WET TESTING FOR 013A  
Monitoring Period End Date: 09/30/19

Thank you.

This notification was sent from the Colorado instance of "Production NetDMR" the official NPDES reporting environment for Colorado clean water discharge permits

**From:** [netdmr-notification@epa.gov](mailto:netdmr-notification@epa.gov)  
**To:** [Crosby, Darlene](#); [Johnson, Chantell](#); [Walz, Barbara](#)  
**Subject:** [EXTERNAL] NetDMR DMR(s) Submittal Passed for: CO0000213  
**Date:** Tuesday, October 22, 2019 7:33:23 AM

---

The following signed 3 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: \_a5027644-1841-45a1-ba29-27347e300e81  
User ID: BARBARAWALZ1  
Timestamp: 10/21/2019 18:51:06  
-----

Permitted Facility Name: NEW HORIZON MINE  
Permit ID: CO0000213  
Permitted Feature: 013  
Discharge: A - SR & Mine Drainage to Tuttle Draw  
Monitoring Period End Date: 09/30/19  
-----

Permitted Facility Name: NEW HORIZON MINE  
Permit ID: CO0000213  
Permitted Feature: 016  
Discharge: A - SR & Mine Drainage Tributary to Tuttle Draw  
Monitoring Period End Date: 09/30/19  
-----

Permitted Facility Name: NEW HORIZON MINE  
Permit ID: CO0000213  
Permitted Feature: 016  
Discharge: Q - Quarterly Monitoring for 016A  
Monitoring Period End Date: 09/30/19

Thank you.

This notification was sent from the Colorado instance of "Production NetDMR" the official NPDES reporting environment for Colorado clean water discharge permits

# COLORADO – CDPS WET TEST REPORT FORM – CHRONIC

 PERMITEE NAME: Tri State, NH2 Mine

 CDPS NO: CO-0000213

 OUTFALL: 013

 TYPE TEST: ROUTINE ☒

ACCELERATED

 TEST SPECIES: Ceriodaphnia dubia

Test Results:

Lethality

Growth

Reproduction

|                             |       |    |                                  |
|-----------------------------|-------|----|----------------------------------|
| CONC. WITH STAT. DIFFERENCE | >100% | NA | 40%                              |
| PASS/FAIL                   | PASS  | NA | FAIL                             |
| NOEC                        | 100%  | NA | 20%                              |
| PASS/FAIL                   | PASS  | NA | FAIL                             |
| IC <sub>25</sub>            | >100% | NA | 50.7%<br>(95% C.I. 33.5 to 82.2) |
| PASS/FAIL                   | PASS  | NA | FAIL                             |

STAT. METHOD USED: STATISTICAL DIFF.:

NOEC, LC<sub>50</sub>
IC<sub>25</sub>
ICp METHOD

 TEST DATE/TIME: START 9/17/19 11:00

 END 9/23/19 10:15

## DILUTIONS (%EFFLUENT)

|                        | CONTROL | 20%     | 40%     | 60%     | 80%     | 100%    |
|------------------------|---------|---------|---------|---------|---------|---------|
| % SURVIVAL FOR DAY: 1  | 100     | 100     | 100     | 100     | 100     | 100     |
| 2                      | 100     | 100     | 100     | 100     | 100     | 100     |
| 3                      | 100     | 100     | 100     | 100     | 100     | 100     |
| 4                      | 100     | 100     | 100     | 100     | 100     | 100     |
| 5                      | 100     | 100     | 100     | 100     | 100     | 100     |
| 6                      | 100     | 90      | 100     | 80      | 100     | 100     |
| MEAN 3 BROOD TOTAL:    | 49.1    | 46.5    | 38.0    | 35.8    | 33.0    | 25.2    |
| 7 DAY MEAN DRY WEIGHT: |         |         |         |         |         |         |
| pH MAX/MIN:            | 8.2/7.9 | 8.4/8.2 | 8.5/8.4 | 8.4/8.4 | 8.3/8.3 | 8.3/8.2 |

 MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 1110 RECON WATER: 97

 MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 291 RECON WATER: 68

 MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.92 FINAL EFFLUENT: NA

 MEAN T. RESIDUAL CHLORINE (mg/L) 100%: <0.02 RECEIVING WATER USED FOR DILUTIONS? (Y/N) N

 WERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

 ANALYST: Michael Hendricks

SIGNATURE:



 LABORATORY: GEI Consultants, Inc./Ecological Division

 DATE: 10/11/19

 COMMENTS: The temperature in the test differed by 4.0°C.

# COLORADO – CDPS WET TEST REPORT FORM – CHRONIC

 PERMITEE NAME: Tri State, NH2 Mine

 CDPS NO: CO-0000213

 OUTFALL: 013

 TYPE TEST: ROUTINE ☒

ACCELERATED

 TEST SPECIES: Pimephales promelas
**Test Results:**
**Lethality**
**Growth**
**Reproduction**

|                             |       |       |    |
|-----------------------------|-------|-------|----|
| CONC. WITH STAT. DIFFERENCE | >100% | >100% | NA |
| PASS/FAIL                   | PASS  | PASS  | NA |
| NOEC                        | 100%  | 100%  | NA |
| PASS/FAIL                   | PASS  | PASS  | NA |
| IC <sub>25</sub>            | >100% | >100% | NA |
| PASS/FAIL                   | PASS  | PASS  | NA |

STAT. METHOD USED: STATISTICAL DIFF.:

NOEC, LC<sub>50</sub>
IC<sub>25</sub>
ICp METHOD

TEST DATE/TIME: START

9/17/19 11:40

END

9/24/19 10:45
**DILUTIONS (%EFFLUENT)**

|                        | CONTROL | 20%     | 40%     | 60%     | 80%     | 100%    |
|------------------------|---------|---------|---------|---------|---------|---------|
| % SURVIVAL FOR DAY: 1  | 100     | 100     | 100     | 100     | 100     | 100     |
| 2                      | 100     | 100     | 100     | 100     | 100     | 97.5    |
| 3                      | 100     | 100     | 100     | 100     | 100     | 97.5    |
| 4                      | 100     | 100     | 100     | 100     | 100     | 92.5    |
| 5                      | 100     | 100     | 95      | 100     | 97.5    | 85      |
| 6                      | 100     | 100     | 82.5    | 100     | 97.5    | 85      |
| 7                      | 100     | 100     | 82.5    | 100     | 97.5    | 82.5    |
| MEAN 3 BROOD TOTAL:    |         |         |         |         |         |         |
| 7 DAY MEAN DRY WEIGHT: | 0.379   | 0.380   | 0.356   | 0.396   | 0.420   | 0.379   |
| pH MAX/MIN:            | 8.0/7.6 | 8.1/7.9 | 8.2/8.1 | 8.3/8.1 | 8.2/8.0 | 8.1/8.0 |

 MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 1110 RECON WATER: 97

 MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 291 RECON WATER: 68

 MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.92 FINAL EFFLUENT: NA

 MEAN T. RESIDUAL CHLORINE (mg/L) 100%: <0.02 RECEIVING WATER USED FOR DILUTIONS? (Y/N) N

 WERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

 ANALYST: Michael Hendricks

SIGNATURE:

 LABORATORY: GEI Consultants, Inc./Ecological Division

DATE:

10/11/19

 COMMENTS: The temperature in the test differed by 3.1°C.

DO# 279740

GEI Consultants, Inc./Ecological Division  
4601 DTC BLVD., SUITE L100  
DENVER, CO 80237  
Main: (303) 662-0100 Lab: (303) 264-1120

NH919-2

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

WEDNESDAY 1 of 1

|                                                          |                        |                                  |             |                                                 |                 |                       |                    |           |
|----------------------------------------------------------|------------------------|----------------------------------|-------------|-------------------------------------------------|-----------------|-----------------------|--------------------|-----------|
| CLIENT/PROJECT <u>ERM/R/NPDES 013</u>                    |                        | TESTS REQUIRED                   |             | CHLORINE                                        |                 |                       |                    |           |
| ADDRESS <u>27646 W. 5th</u>                              |                        | ACUTE                            |             | Measured by:<br>Client <input type="checkbox"/> |                 |                       |                    |           |
| CITY <u>Nucola</u> STATE <u>CO</u>                       |                        | CHRONIC                          |             | Lab <input checked="" type="checkbox"/>         |                 |                       |                    |           |
| ZIP <u>81424</u> PHONE # <u>970-864-7314 x1109</u>       |                        | C E R I O                        | F A T H A D | D A P H N I A                                   | C E R I O       | F A T H A E           | O T H E R          |           |
| PROJ. MANAGER <u>C. Johnson</u> SAMPLER <u>J. Carver</u> |                        |                                  |             |                                                 |                 |                       |                    |           |
| SAMPLE TYPE/SITE                                         | Date Collected         | Time Collected                   | TRC (mg/L)  |                                                 |                 |                       | Date/Time Measured | COMMENTS: |
| <u>Outfall 013 Effluent</u>                              | <u>9/18/19</u>         | <u>0915</u>                      | <u>✓</u>    | <u>✓</u>                                        | <u>&lt;0.07</u> | <u>9/19/19</u>        | <u>925</u>         |           |
| <u>Grab</u>                                              |                        |                                  |             |                                                 |                 |                       |                    |           |
|                                                          |                        |                                  |             |                                                 |                 |                       |                    |           |
|                                                          |                        |                                  |             |                                                 |                 |                       |                    |           |
|                                                          |                        |                                  |             |                                                 |                 |                       |                    |           |
|                                                          |                        |                                  |             |                                                 |                 |                       |                    |           |
|                                                          |                        |                                  |             |                                                 |                 |                       |                    |           |
|                                                          |                        |                                  |             |                                                 |                 |                       |                    |           |
|                                                          |                        |                                  |             |                                                 |                 |                       |                    |           |
|                                                          |                        |                                  |             |                                                 |                 |                       |                    |           |
|                                                          |                        |                                  |             |                                                 |                 |                       |                    |           |
| PROJECT INFORMATION                                      |                        | LABORATORY RECEIVING INFORMATION |             | CLIENT RELINQUISHED BY: <u>Sharon Carver</u>    |                 |                       |                    |           |
| COURIER: <u>UPS</u>                                      | CONDITION: <u>Good</u> | DATE/TIME: <u>9.18.19</u>        |             | <u>0930</u>                                     |                 |                       |                    |           |
| TOTAL NUMBER OF CONTAINERS: <u>2</u>                     |                        | TEMPERATURE (°C): <u>5.0</u>     |             | LABORATORY RECEIVED BY: <u>Katie Staan</u>      |                 |                       |                    |           |
| COMMENTS <u>1-1 gal + 1-1 quart Cubes</u>                |                        | DATE/TIME: <u>9/19/19</u>        |             | <u>915</u>                                      |                 |                       |                    |           |
| <u>At collection:</u>                                    |                        | <u>PH 5.6-8.1</u>                |             | <u>+ temp °C 15.0°</u>                          |                 | <u>condns/cm 1924</u> |                    |           |

PO# 279740

NH919-3

# BIOASSAY LABORATORY CHAIN-OF-CUSTODY

THIS IS NOT A

PO# 279740



DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695  
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE  
NUCLA, CO 81424

Permitted Feature:

012  
External Outfall

Discharge:

012-A  
SR and Mine Drainage to Tuttle Draw

Report Dates & Status

Monitoring Period:

From 09/01/19 to 09/30/19

DMR Due Date:

10/28/19

Status:

NetDMR Validated

Considerations for Form Completion

TSS & Fe limits will be waived & settleable solids limit applied for 10YR/24HR precip event - see pp 8-9 for requirements.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

| Parameter |                                          | Monitoring Location | Season # | Param. NODI |             | Quantity or Loading |                  |             |                  |              | Quality or Concentration |                  |             |                  |             |                  |           | # of Ex. | Frequency of Analysis   | Sample Type |
|-----------|------------------------------------------|---------------------|----------|-------------|-------------|---------------------|------------------|-------------|------------------|--------------|--------------------------|------------------|-------------|------------------|-------------|------------------|-----------|----------|-------------------------|-------------|
| Code      | Name                                     |                     |          |             |             | Qualifier 1         | Value 1          | Qualifier 2 | Value 2          | Units        | Qualifier 1              | Value 1          | Qualifier 2 | Value 2          | Qualifier 3 | Value 3          | Units     |          |                         |             |
| 00400     | pH                                       | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |              |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |              | >=                       | 6.5 MINIMUM      |             |                  | <=          | 9 MAXIMUM        | 12 - SU   |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |              |                          | C - No Discharge |             |                  |             | C - No Discharge |           |          |                         |             |
| 00530     | Solids, total suspended                  | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |              |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |              |                          |                  | <=          | 35 30DA AVG      | <=          | 70 MX 7D AV      | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |              |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 00980     | Iron, total recoverable                  | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |              |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |              |                          |                  | <=          | 3000 30DA AVG    | <=          | 6000 DAILY MX    | 28 - ug/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |              |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 03582     | Oil and grease                           | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |              |                          |                  |             |                  |             |                  |           |          | 77/77 - Contingent      | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |              |                          |                  |             |                  | <=          | 10 INST MAX      | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |              |                          |                  |             |                  |             | C - No Discharge |           |          |                         |             |
| 50050     | Flow, in conduit or thru treatment plant | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |              |                          |                  |             |                  |             |                  |           |          | 01/30 - Monthly         | IN - INSTAN |
|           |                                          |                     |          |             | Permit Req. | <=                  | 1.09 30DA AVG    |             | Req Mon DAILY MX | 03 - MGD     |                          |                  |             |                  |             |                  |           |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     | C - No Discharge |             | C - No Discharge |              |                          |                  |             |                  |             |                  |           |          |                         |             |
| 84066     | Oil and grease visual                    | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |              |                          |                  |             |                  |             |                  |           |          | 01/07 - Weekly          | VI - VISUAL |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             | Req Mon INST MAX | 9P - N=0;Y=1 |                          |                  |             |                  |             |                  |           |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             | C - No Discharge |              |                          |                  |             |                  |             |                  |           |          |                         |             |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2019-10-07 15:07 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2019-10-21 16:51 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695  
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE  
NUCLA, CO 81424

Permitted Feature:

012  
External Outfall

Discharge:

012-Q  
Quarterly Monitoring for 012A

Report Dates & Status

Monitoring Period:

From 07/01/19 to 09/30/19

DMR Due Date:

10/28/19

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, #29, pg 43.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2019-10-07 15:09 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2019-10-21 16:51 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695  
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE  
NUCLA, CO 81424

Permitted Feature:

013  
External Outfall

Discharge:

013-A  
SR & Mine Drainage to Tuttle Draw

Report Dates & Status

Monitoring Period:

From 09/01/19 to 09/30/19

DMR Due Date:

10/28/19

Status:

NetDMR Validated

Considerations for Form Completion

TSS & Fe limits will be waived & settleable solids limit applied for 10YR/24HR precip event - see pg 7 for requirements.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI: --

| Parameter |                                          | Monitoring Location | Season # | Param. NODI |             | Quantity or Loading |               |             |                  | Quality or Concentration |             |             |             |                  |             |                                                       | # of Ex.  | Frequency of Analysis | Sample Type             |             |
|-----------|------------------------------------------|---------------------|----------|-------------|-------------|---------------------|---------------|-------------|------------------|--------------------------|-------------|-------------|-------------|------------------|-------------|-------------------------------------------------------|-----------|-----------------------|-------------------------|-------------|
| Code      | Name                                     |                     |          |             |             | Qualifier 1         | Value 1       | Qualifier 2 | Value 2          | Units                    | Qualifier 1 | Value 1     | Qualifier 2 | Value 2          | Qualifier 3 | Value 3                                               | Units     |                       |                         |             |
| 00400     | pH                                       | 1 - Effluent Gross  | 0        | --          | Sample      |                     |               |             |                  |                          | =           | 6.9         |             |                  | =           | 7.23                                                  | 12 - SU   |                       | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |               |             |                  |                          | >=          | 6.5 MINIMUM |             |                  | <=          | 9 MAXIMUM                                             | 12 - SU   | 0                     | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |               |             |                  |                          |             |             |             |                  |             |                                                       |           |                       |                         |             |
| 00978     | Arsenic, total recoverable               | 1 - Effluent Gross  | 0        | --          | Sample      |                     |               |             |                  |                          |             |             | <           | 1                |             |                                                       | 28 - ug/L |                       | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |               |             |                  |                          |             |             |             | Req Mon 30DA AVG |             |                                                       | 28 - ug/L | 0                     | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |               |             |                  |                          |             |             |             |                  |             |                                                       |           |                       |                         |             |
| 00980     | Iron, total recoverable                  | 1 - Effluent Gross  | 0        | --          | Sample      |                     |               |             |                  |                          |             |             | =           | 425              | =           | 538                                                   | 28 - ug/L |                       | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |               |             |                  |                          |             |             | <=          | 3000 30DA AVG    | <=          | 6000 DAILY MX                                         | 28 - ug/L | 0                     | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |               |             |                  |                          |             |             |             |                  |             |                                                       |           |                       |                         |             |
| 01303     | Zinc, potentially dissolved              | 1 - Effluent Gross  | 0        | --          | Sample      |                     |               |             |                  |                          |             |             | =           | 12               | =           | 12                                                    | 28 - ug/L |                       | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |               |             |                  |                          |             |             |             | Req Mon 30DA AVG |             | Req Mon DAILY MX                                      | 28 - ug/L | 0                     | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |               |             |                  |                          |             |             |             |                  |             |                                                       |           |                       |                         |             |
| 01319     | Manganese, potentially dissolvd          | 1 - Effluent Gross  | 0        | --          | Sample      |                     |               |             |                  |                          |             |             | =           | 525              | =           | 560                                                   | 28 - ug/L |                       | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |               |             |                  |                          |             |             | <=          | 4120 30DA AVG    | <=          | 4738 DAILY MX                                         | 28 - ug/L | 0                     | 01/30 - Monthly         | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |               |             |                  |                          |             |             |             |                  |             |                                                       |           |                       |                         |             |
| 01323     | Selenium, potentially dissolvd           | 1 - Effluent Gross  | 0        | --          | Sample      |                     |               |             |                  |                          |             |             | =           | 1.9              | =           | 3.5                                                   | 28 - ug/L |                       | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |               |             |                  |                          |             |             | <=          | 26 30DA AVG      | <=          | 26 DAILY MX                                           | 28 - ug/L | 0                     | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |               |             |                  |                          |             |             |             |                  |             |                                                       |           |                       |                         |             |
| 03582     | Oil and grease                           | 1 - Effluent Gross  | 0        | --          | Sample      |                     |               |             |                  |                          |             |             |             |                  |             |                                                       |           |                       |                         |             |
|           |                                          |                     |          |             | Permit Req. |                     |               |             |                  |                          |             |             |             |                  | <=          | 10 INST MAX                                           | 19 - mg/L |                       | 77/77 - Contingent      | GR - GRAB   |
|           |                                          |                     |          |             | Value NODI  |                     |               |             |                  |                          |             |             |             |                  |             | 9 - Conditional Monitoring - Not Required This Period |           |                       |                         |             |
| 50050     | Flow, in conduit or thru treatment plant | 1 - Effluent Gross  | 0        | --          | Sample      | =                   | 1.281         | =           | 2.389            | 03 - MGD                 |             |             |             |                  |             |                                                       |           |                       | 01/01 - Daily           | IN - INSTAN |
|           |                                          |                     |          |             | Permit Req. | <=                  | 1.44 30DA AVG |             | Req Mon DAILY MX | 03 - MGD                 |             |             |             |                  |             |                                                       |           | 0                     | 01/30 - Monthly         | IN - INSTAN |
|           |                                          |                     |          |             | Value NODI  |                     |               |             |                  |                          |             |             |             |                  |             |                                                       |           |                       |                         |             |
| 84066     | Oil and grease visual                    | 1 - Effluent Gross  | 0        | --          | Sample      |                     |               | =           | 0                | AB - abst=0;prst=1       |             |             |             |                  |             |                                                       |           |                       | 02/30 - Twice Per Month | VI - VISUAL |
|           |                                          |                     |          |             | Permit Req. |                     |               |             | Req Mon INST MAX | AB - abst=0;prst=1       |             |             |             |                  |             |                                                       |           | 0                     | 02/30 - Twice Per Month | VI - VISUAL |
|           |                                          |                     |          |             | Value NODI  |                     |               |             |                  |                          |             |             |             |                  |             |                                                       |           |                       |                         |             |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

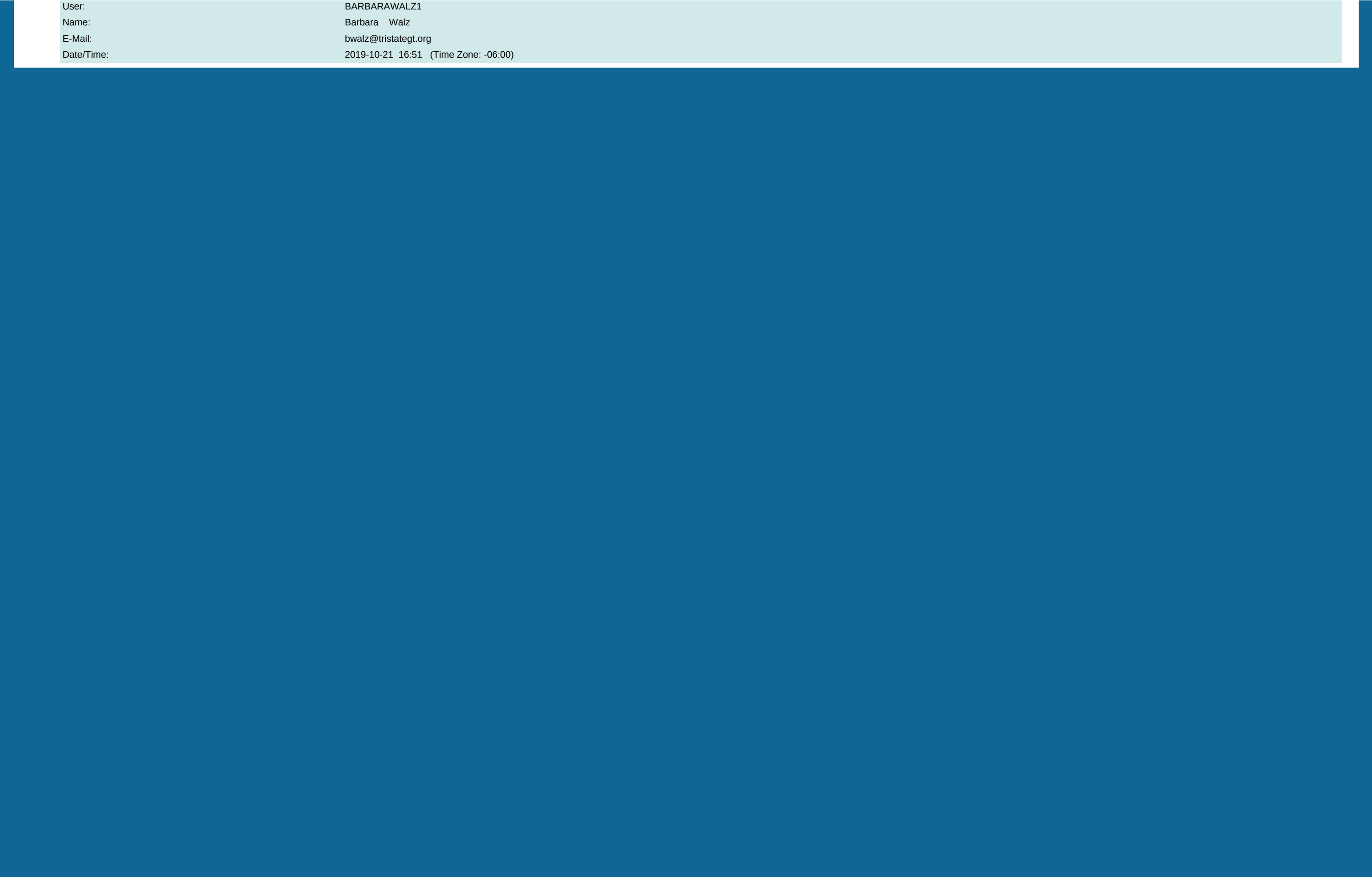
E-Mail:

dcrosby@tristategt.org

Date/Time:

2019-10-14 13:38 (Time Zone: -06:00)

Report Last Signed By



DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695  
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE  
NUCLA, CO 81424

Permitted Feature:

013  
External Outfall

Discharge:

013-Q  
Quarterly Monitoring for 013A

Report Dates & Status

Monitoring Period:

From 07/01/19 to 09/30/19

DMR Due Date:

10/28/19

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly Monitoring - see Appendix B, #29, pg 43

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2019-10-21 16:36 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2019-10-21 16:51 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695  
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE  
NUCLA, CO 81424

Permitted Feature:

013  
External Outfall

Discharge:

013-X  
CHRONIC WET TESTING FOR 013A

Report Dates & Status

Monitoring Period:

From 07/01/19 to 09/30/19

DMR Due Date:

10/28/19

Status:

NetDMR Validated

Considerations for Form Completion

See Part I.D.1 of permit for details of test procedure. Report NOEC using test code "S". Report IC25 using test code "P". Report highest number between "P" and "S" at "T" for each parameter. IWC=100%.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

| Parameter |                                                  | Monitoring Location | Season # | Param. NODI |             | Quantity or Loading |         |             |         |       | Quality or Concentration |                  |             |         |             |         | # of Ex.         | Frequency of Analysis | Sample Type       |             |
|-----------|--------------------------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|------------------|-------------|---------|-------------|---------|------------------|-----------------------|-------------------|-------------|
| Code      | Name                                             |                     |          |             |             | Qualifier 1         | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1              | Value 1          | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units            |                       |                   |             |
| TKP3B     | Static Renewal 7 Day Chronic Ceriodaphnia dubia  | P - See Comments    | 3        | --          | Sample      |                     |         |             |         |       | =                        | 40               |             |         |             |         | 2G - tox chronic | 0                     | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          | Req Mon SINGSAMP |             |         |             |         | 2G - tox chronic |                       | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |                  |             |         |             |         |                  |                       |                   |             |
| TKP3B     | Static Renewal 7 Day Chronic Ceriodaphnia dubia  | S - See Comments    | 3        | --          | Sample      |                     |         |             |         |       | =                        | 20               |             |         |             |         | 2G - tox chronic | 0                     | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          | Req Mon MN VALUE |             |         |             |         | 2G - tox chronic |                       | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |                  |             |         |             |         |                  |                       |                   |             |
| X TKP3B   | Static Renewal 7 Day Chronic Ceriodaphnia dubia  | T - See Comments    | 3        | --          | Sample      |                     |         |             |         |       | =                        | 40               |             |         |             |         | 2G - tox chronic | 1                     | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Permit Req. |                     |         |             |         |       | >=                       | 100 MN VALUE     |             |         |             |         | 2G - tox chronic |                       | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |                  |             |         |             |         |                  |                       |                   |             |
| TKP6C     | Static Renewal 7 Day Chronic Pimephales promelas | P - See Comments    | 3        | --          | Sample      |                     |         |             |         |       | >                        | 100              |             |         |             |         | 2G - tox chronic | 0                     | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          | Req Mon SINGSAMP |             |         |             |         | 2G - tox chronic |                       | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |                  |             |         |             |         |                  |                       |                   |             |
| TKP6C     | Static Renewal 7 Day Chronic Pimephales promelas | S - See Comments    | 3        | --          | Sample      |                     |         |             |         |       | =                        | 100              |             |         |             |         | 2G - tox chronic | 0                     | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          | Req Mon MN VALUE |             |         |             |         | 2G - tox chronic |                       | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |                  |             |         |             |         |                  |                       |                   |             |
| TKP6C     | Static Renewal 7 Day Chronic Pimephales promelas | T - See Comments    | 3        | --          | Sample      |                     |         |             |         |       | >                        | 100              |             |         |             |         | 2G - tox chronic | 0                     | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Permit Req. |                     |         |             |         |       | >=                       | 100 MN VALUE     |             |         |             |         | 2G - tox chronic |                       | 01/90 - Quarterly | G3 - GRAB-3 |
|           |                                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |                  |             |         |             |         |                  |                       |                   |             |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

| Parameter |                                                 | Monitoring Location | Field                                   | Type | Description                                                            | Acknowledge |
|-----------|-------------------------------------------------|---------------------|-----------------------------------------|------|------------------------------------------------------------------------|-------------|
| Code      | Name                                            |                     |                                         |      |                                                                        |             |
| TKP3B     | Static Renewal 7 Day Chronic Ceriodaphnia dubia | T - See Comments    | Quality or Concentration Sample Value 1 | Soft | The provided sample value is outside the permit limit. (Error Code: 1) | Yes         |

Comments

Tri-State recently notified WQCD of the results of the Third Quarter WET testing and requested a waiver from additional TIE/TRE evaluations based on ongoing toxicity assessments for this Outfall and demonstration that the water quality has been consistent.

Attachments

| Name                                                           | Type | Size   |
|----------------------------------------------------------------|------|--------|
| NH2_CDPS_CO0000213_Outfall013_WETresults_September2019_COC.pdf | pdf  | 573071 |

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

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Darlene Crosby

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Date/Time:

2019-10-16 08:49 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz



DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695  
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE  
NUCLA, CO 81424

Permitted Feature:

016  
External Outfall

Discharge:

016-A  
SR & Mine Drainage Tributary to Tuttle Draw

Report Dates & Status

Monitoring Period:

From 09/01/19 to 09/30/19

DMR Due Date:

10/28/19

Status:

NetDMR Validated

Considerations for Form Completion

TSS & Fe limits will be waived & settleable solids limits applied for 10YR/24HR precip event - see pp 8-9 for requirements.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

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Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2019-10-07 15:11 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2019-10-21 16:51 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695  
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE  
NUCLA, CO 81424

Permitted Feature:

016  
External Outfall

Discharge:

016-Q  
Quarterly Monitoring for 016A

Report Dates & Status

Monitoring Period:

From 07/01/19 to 09/30/19

DMR Due Date:

10/28/19

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, #29, pg 43.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2019-10-07 15:11 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2019-10-21 16:51 (Time Zone: -06:00)