



TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

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

February 10, 2021

Mrs. Janet Binns
Environmental Protection Specialist
Colorado Division of Reclamation, Mining & Safety
Department of Natural Resources
1313 Sherman Street, Room 215
Denver, CO 80203

**RE: New Horizon North Mine
Permit No. C-2010-089
2020 Annual Reclamation Report**

Dear Mrs. Binns,

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

Per Rule 2.04.13(1), by February 15, or other such date as agreed on, each permittee shall file an annual reclamation report covering the previous calendar years for all areas under bond. New Horizon by permit is required to submit the report annually by March 15. Therefore, enclosed please find the Annual Reclamation Report for the calendar year 2020 as required.

If you should have any additional questions or concerns please feel free to contact Tony Tenyson at (970) 326-3560 at your convenience.

Sincerely,

DocuSigned by:
Daniel Casiraro
B70D69F114324DE...

Daniel J. Casiraro
Senior Manager
Environmental Services

DJC:TT:dbf

Enclosure

cc:

Chris Gilbreath (via email)
Frank Ferris (via email)
File: G474-11.3(21)c-7

Elk Ridge Mining & Reclamation, LLC

PERMIT C-2010-089

NEW HORIZON NORTH MINE

2020 ANNUAL RECLAMATION REPORT

JANUARY 1, 2020 to DECEMBER 31, 2020

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A. Rule Requirements

Rule 2.04.13(1)(a-f) states, by February 15, or such date agreed on, each permitted shall file an annual reclamation report covering the previous calendar year for all areas under bond. The report shall include, but are not limited to, text, discussion and maps which address:

- the name and address of the permittee and permit number
- location and number of acres disturbed during that year
- location and number of acres backfilled and graded during that year
- location and number of acres topsoiled during that year
- the species, location and number of acres of vegetation planted during that year, including any augmented seeding or cultural practices
- location, number of acres and date of planting for all previously revegetated areas

Per Section 2.04.13 of Permit No. C-2010-089 the New Horizon North Mine submits the annual reclamation report annually by March 15. Additional requirements for contents of this annual reclamation report can be found in Section 2.05.4(2)(d), Section 2.05.4(2)(e), and Section 2.05.6(2).

B. Permittee

New Horizon North Mine
Permit No. C-2010-089
PO Box 628
Nucla, CO 81424

C. Disturbed Areas

During 2020, 0.0 acres of new disturbance occurred at the New Horizon North Mine.

At the end of 2020, the total disturbance was 157.1 acres. Of this, 42.9 acres are in long-term mining, reclamation, or facilities. All of the active mining areas have been backfilled, graded, and topsoiled. Therefore, there are no active mining areas exist at the New Horizon North Mine.

D. Backfill and Grading

During 2020, 0.0 acres were backfilled and graded.

E. Reclamation Activities

1. Spoil Quality

The spoil sampling and analysis program for the New Horizon North Mine is described in Section 2.05.4(2)(d), Table 2.05.4(2)(d)-1 of the approved permit. All areas for spoil quality (Bench 1) have been sampled for the entire mine site. Please see previous annual reclamation reports for the results of the analyses.

2. Topsoil

During 2020, 0.6 acres were topsoiled. Table 1 provides the overall stockpile volumes for the mine.

3. Seeding

The New Horizon North Mine permanently seeded 0.6 acres of Irrigated Pasture and 0.0 acres of Dryland Pasture in 2020. Please see Table 2 for specific details on each reclamation unit, and Map 1 for the reclamation areas seeded to date. Attachment 2 contains documentation on specific seed mix utilized and a sample of the seed tags for 2019.

See Section 2.05.4(2)(e) of the permit application package for seed mix information.

4. Soil Fertility Testing and Fertilizer Application

The landowner conducted soil testing in 2020. The results of the test are presented in Attachment 1.

Fertilizer was applied to reclamation unit IP-1. Fertilizer and rates that were applied in 2020 are as follows:

IP-1	
<u>Fertilizer</u>	<u>Pounds/Acre Applied</u>
Monoammonium Phosphate	76

5. Irrigation

The CC Ditch Company commenced water deliveries on April 28, 2020, and New Horizon Mine began irrigation operations shortly thereafter. The CC Ditch Company discontinued water delivery November 1, 2020.

6. Irrigated Pasture Yields

In 2020, the first cutting from reclamation unit NHN-04 yielded 76 round bales at 1,540 pounds. The second cutting from reclamation unit NHN-04 yielded 197 round bales at 1,340 pounds. The final cutting from reclamation unit NHN-04 yielded 255 round bales at 1,450 pounds.

F. Wildlife Monitoring and Mitigation

No wildlife monitoring nor mitigation occurred in 2020.

G. Interim Revegetation Report

Interim vegetation monitoring did not occur at the New Horizon North Mine in 2020. Future Interim Vegetation Reports will be included as an attachment.

H. Weed Management

During April of 2020, noxious weeds were mitigated by spot spraying by a licensed contractor or hand removal. The actual treatment sites were generally small and random and thus too small to accurately depict on a map.

Target species for noxious weeds included Knapweed(s), Thistle(s), White Top, Russian-olive, saltceder/tamarisk, burdock, mullein, halogeton, purple loosestrife, and Western whorled milkweed. Other target species are included in the Montrose County (2010) and San Miguel County (2002) Noxious Weed lists.

Table 1 – Stockpile Volumes at the End of Report Year

<u>Stockpile Type</u>	<u>Volume (Cubic Yards)</u>
Topsoil Pile 1 - Mixed	33,720
Topsoil Pile 2 - Mixed	32,290
Topsoil Pile 3 - Progresso	16,580

Table 2 – New Horizon North Reclamation Table

Area	Reclamation Period		Status				Notes:
	Year	Acreage	Revegetated Years	Bond Release			
				Phase 1	Phase 2	Phase 3	
NHN-01	2017	3.7	4	2017			3.7 acres planted to Dryland Pasture
NHN-02	2017	2.7	4	2017			2.7 Acres planted to Dryland Pasture
NHN-03	2018	20.6	3	2017			20.6 Acres planted to Dryland Pasture
NHN-04	2019	88.3	2	2017			88.3 Acres planted to Irrigated Pasture
NHN-05	2019	4.9	2	2017			7.3 Acres planted to Dryland Pasture
NHN-06	2020	0.6	1				0.6 Acres planted to Dryland Pasture
Total		120.8					

Figure 1 - CDRMS Annual Reclamation Report Form

Colorado Division of Reclamation, Mining and Safety

Annual Reclamation Report for Calendar Year – 2019

New Horizon North Mine	C-2010-089	Elk Ridge Mining & Reclamation, LLC.
Mine Name	Permit Number	Permittee
P.O Box 628 – 27646 W. 5 th Street Nucla, CO 81424		
Address		

This report, required by Rule 2.04.13, is due by February 15 of each year, or other date, as agreed upon by the Division. It should include text, discussion, and maps, at a minimum, in addition to any other reclamation monitoring data as required by the approved permit. The location of the acreage reported under each land status category and year of seeding (if applicable) should be clearly identified on a map included with the report.

Land Category	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Acreage in Active Mining Areas ¹	0	0	0	=	0

Land Category	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Acres Disturbed ²	157.1	0	0	=	157.1
Acres Backfilled and Graded	82.4	0.6	0	=	83.0
Acres Topsoiled	120.2	0	0	=	120.8

Acreage in Long-term Facilities ³	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Non-Permanent Facilities	42.9	0	0	=	42.9
Permanent Facilities (permitted)	0	0	0	=	0
Totals	42.9			=	42.9

Acres Seeded (permanent)	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
9 Years and Less	120.2	0.6	0	=	120.8
10 Years and Greater	0	0	0	=	0
Totals	120.2			=	120.8

Bond Release	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Phase I Released	0	120.2	0	=	120.2
Phase II Released	0	0	0	=	0

New Horizon North Mine

Phase III Released	0	0	0	=	0
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¹Includes pits, topsoil stripped areas in advance of pits, and spoil not backfilled and graded

²Surface Mine Acres Disturbed = B&G + Long-Term Facilities + Active Mining Areas; Underground Mine Acres Disturbed = B&G + Long-Term Facilities; Separately-permitted Loadouts = B&G + Long-Term Facilities

³Includes haul, access and light-use roads, temporary dams and impoundments; permanent dams and impoundments; diversion and collector ditches, water and air monitoring sites; topsoil stockpiles; overburden stockpiles; repair, storage and construction areas; office area, repair shops, and parking; coal stockpiles, loading, and processing areas; railroads; coal conveyors; refuse piles and coal mine waste impoundments; head-of-hollow fills; valley fills; ventilation shafts and entryways; and non-coal waste disposal area (garbage dumps and coal combustion by-products disposal areas).

Attachment 1
Soil Testing Report

New Horizon North Mine

Dustin Garvey

P O Box 646

Nucla CO 81424



SOIL, WATER & PLANT TESTING LABORATORY
FORT COLLINS, COLORADO 80523-1120
 Phone 970-491-5061 Fax 970-491-2930



AGRICULTURAL TEST REPORT

CC18518

NUMBER OF SAMPLES 3+1

DATE RECEIVED 3/10/2020

DATE REPORTED 3/13/2020

COUNTY Montrose

IDENTIFICATION		ROUTINE SOIL TEST RESULTS																			
METHOD USED:					Estimate	Estimate			Modified	AB-DTPA	NaHCO ₃	AB-DTPA Extract								Hot	AB-DTPA
									Walkley Black	Extract	Extract									Water	Extract
Lab No.	Sample ID	Sample Depth	pH	EC Salts mmhos/cm	Excess Lime	Texture Estimate	SAR	Gyp <u>meq</u> 100g	Organic Matter %	Nitrate N ppm	Phosphorus P ppm	Phosphorus P ppm	Potassium K ppm	Zinc Zn ppm	Iron Fe ppm	Manganese Mn ppm	Copper Cu ppm	Boron B ppm	Sulfur S ppm		
F1067a	Mine		7.9	1.1	very high	sandy clay			1.0	8	9.5	5.3	123	4.5	29.3	1.8	3.0	0.11	81.2		
F1068b	Home		7.8	0.7	very high	sandy clay loam			2.1	1	8.5	4.5	123	11.8	27.7	1.8	5.1	0.12	40.3		
F1069c	Doy		7.9	0.5	very high	sandy clay loam			2.1	1	7.2	4.2	141	5.7	25.2	1.5	3.9	0.15	26.6		
F1070d	Piel		7.8	0.8	very high	sandy clay loam			2.2	1	7.8	4.0	131	6.6	21.1	1.5	3.7	0.13	36.4		

FERTILIZER RECOMMENDATIONS:

I. D.	FIELD INFORMATION									POUNDS OF ACTUAL NUTRIENT PER ACRE										
Lab No.	Sample ID	Acres	Irrigation	Proposed Crop	Yield Goal	Lime (T/A) to raise pH to:			N lbs/A	P ₂ O ₅ lbs/A	K ₂ O lbs/A	Zn lbs/A	Fe lbs/A	Mn lbs/A	Cu lbs/A	Boron lbs/A	Sulfur lbs/A	Gypsum T/A		
						6.0	6.5	7.0												
F1067a	Mine		pivot	alfalfa	6T/A				20	40	0	0	0	0	0	0	0	0		
Cadmium 0.07 Chromium 0.02 Molybdenum 0.12 Lead 5.82 ppm																				
F1068b	Home		yes	grass mix	4T/A				120	40	0	0	0	0	0	0	0	0		
Cadmium 0.17 Chromium 0.02 Molybdenum 0.10 Lead 15.4 ppm																				
F1069c	Doy		yes	grass mix	4T/A				120	40	0	0	0	0	0	0	0	0		
Cadmium 0.15 Chromium 0.02 Molybdenum 0.07 Lead 11.7 ppm																				
F1070d	Piel		yes	grass mix	4T/A				120	40	0	0	0	0	0	0	0	0		
Cadmium 0.13 Chromium 0.02 Molybdenum 0.08 Lead 9.81 ppm																				

SPECIAL COMMENTS AND SUGGESTIONS:

The pH and salts are at levels that are suitable for plant growth.
 Heavy metals are low and not at toxic levels.

Web site: <http://www.soiltestinglab.colostate.edu>

APPROVED _____

James Self, Ph.D./Extension Soil Test Specialist

Attachment 2

Seed Tag

Granite Seed - Denver
FROM 490 East 76th Ave., Unit A
Denver, CO 80229

Mix Name: **New Horizon Mix 8 - Dryland Pasture**

MIX # **185591**

3-34549

New Horizon Mix 8 - Dryland Pasture

Pure Common Name	Variety	G + D or H	Origin
31.90 WESTERN WHEATGRASS	Amba	95 + 0 = 95	WA
23.02 THICKSPIKE WHEATGRASS	Critana	97 + 0 = 97	MT
21.83 WILDRYE, RUSSIAN	Bozolsky	95 + 0 = 95	MT
11.00 ALFALFA	Ladak 65	65 + 22 = 87	MT
8.70 SALT BUSH, FOURWING	VNS	55-TZ	NM

0.03 Other Crop
3.51 Inert Matter
0.00 Weed Seed

Date Tested: 07-Sep-17
Hard Seed: 2.42

Noxious Weed: NONE FOUND

Net Weight: 43.87 Lbs. PLS
Coverage: 50.000 Bulk #
50.00 Lbs. Bulk

NOTICE TO BUYER LIMITATIONS OF WARRANTIES AND REMEDIES
Crop yield and quality are dependent upon many factors beyond the control of the labeled seller and NO WARRANTY is made for crop yield and quality. The labeled seller makes no representation, express or implied, regarding the performance of the seed under conditions other than those stated on the label. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL.

No claim shall be asserted against the labeled seller unless Buyer reports to the labeled seller within a reasonable period after delivery (not to exceed thirty days), any condition that might lead to a complaint. BUYER'S EXCLUSIVE REMEDY FOR ANY CLAIM OR LOSS RESULTING FROM BREACH OF WARRANTY, BREACH OF CONTRACT OR NEGLIGENCE (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES) SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE.

By acceptance of the seed, Buyer agrees the terms and conditions stated above are a benefit to the bargain and constitute the entire agreement between Buyer and the labeled seller. Buyer shall return the original unopened seed package to the labeled seller within twenty days of receipt for a refund of the purchase price if not accepted under these terms.

NOTICE REQUIRED ARBITRATION / CONCILIATION / MEDIATION

The seed laws of several states including Arkansas, California, Colorado, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Montana, North Dakota, South Carolina (Section 46-2-260), South Dakota, Texas and Virginia require that a written contract for the sale of seed must contain a provision for arbitration, conciliation or mediation of disputes involving alleged defective seed before certain legal actions may be brought. Such provisions are required by law in the following states: AR, CA, CO, FL, GA, ID, IL, IN, IA, KS, KY, LA, MD, ME, MI, MN, MS, MT, NC, SC, SD, TN, TX, VA, WI, WV, and WY. The National Arbitration Board, a non-profit organization, offers an alternative to court action that allows claims to be investigated and resolved quickly and fairly. An Arbitration Agreement is provided with each seed package. If you do not wish to use the Arbitration Board, a complaint (sworn for AR, CO, FL, IL, IN, Ky, MS, MT, NC, SC, TN, TX, Va, WI, WV, and WY) filed with the Department of Agriculture or Seed Commission (as applicable) will limit the amount of damages recoverable. Certified seed packages provided in individual state law information allow you to file a complaint within such time to permit an inspection of seed. Damages recoverable are limited to the purchase price of the seed. Information regarding state law information is available from the National Arbitration Board.