# TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

**HEADQUARTERS:** 

P.O. BOX 33695

DENVER, COLORADO 80233-0695

303-452-6111

January 20, 2020

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 2019 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 two (2) copies of the Annual Reclamation Report for the calendar year 2019 as required.

If you should have any additional questions or concerns please feel free to contact Tony Tenyson at (970) 824-1232 at your convenience.

Sincerely,

Daniel J. Casiraro Senior Manager

**Environmental Services** 

DJC:TT:der

Enclosure

cc:

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

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# Elk Ridge Mining & Reclamation, LLC PERMIT C-2010-089

# NEW HORIZON NORTH MINE

2019 ANNUAL RECLAMATION REPORT JANUARY 1, 2019 to DECEMBER 31, 2019

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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 2019, 0.0 acres of new disturbance occurred at the New Horizon North Mine.

At the end of 2019, 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 2019, 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 201, 0.0 acres were topsoiled. Table 1 provides the overall stockpile volumes for the mine.

## 3. Seeding

The New Horizon North Mine permanently seeded 88.3 acres of Irrigated Pasture and 4.9 acres of Dryland Pasture in 2019. Please see Table 2 for specific details on each reclamation unit, and Map 1 for the areas seeded in 2019. 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

No soil fertility testing was conducted by the landowner in 2019.

Fertilizer was applied to reclamation unit IP-1. Fertilizer and rates that were applied in 2019 are as follows:

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

# F. Wildlife Monitoring and Mitigation

No wildlife monitoring occurred in 2019. In May and August of 2019, the New Horizon Mine North Mine conducted Prairie Dog mitigation in reclaimed areas were the species was present. The licensed exterminators employed carbon monoxide treatments to active holes.

# G. Interim Revegetation Report

Interim vegetation monitoring did not occur at the New Horizon North Mine in 2019. Future Interim Vegetation Reports will be included as an attachment.

# H. Weed Management

During April of 2019, 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, Russianolive, 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

Stockpile Type	Volume (Cubic
	<u>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** 

	Reclamati	on Period		Statu	ıs		
Area	Year	Acreage	Revegetated	В	ond Releas	se	
			Years	Phase 1	Phase 2	Phase 3	Notes:
NHN-01	2017	3.7	2	2017			3.7 acres planted to Dryland Pasture
NHN-02	2017	2.7	2	2017			2.7 Acres planted to Dryland Pasture
NHN-03	2018	20.6	1	2017			20.6 Acres planted to Dryland Pasture
NHN-04	2019	88.3	0	2017			88.3 Acres planted to Irrigated Pasture
NHN-05	2019	4.9	0	2017			7.3 Acres planted to Dryland Pasture
Total		120.2					

# Figure 1 - CDRMS Annual Reclamation Report Form

# Colorado Division of Reclamation, Mining and Safety

Annual Reclamation Report for Calendar Year – 2019

Elk Ridge Mining & Reclamation,

New Horizon North Mine C-2010-089 LLC.

Mine Name Permit Number Permittee

P.O Box 628 – 27646 W. 5th 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 Catagony	Last Year's Cumulative Total	This Cale	endar Year		Cumulative Total
Land Category	(from last year's ARR)	Acres Added (+)	Acres Subtracted (-)		Cumulative Total
Acreage in Active Mining Areas <sup>1</sup>	0	0	0	=	0

Land Catagony	Last Year's Cumulative Total	This Cale	endar Year		Cumulative Total
Land Category	(from last year's ARR)	Acres Added (+)	Acres Subtracted (-)		Cumulative Total
Acres Disturbed <sup>2</sup>	157.1	0	0	=	157.1
Acres Backfilled and Graded	82.4	0	0	=	82.4
Acres Topsoiled	123.6	0	3.4*	=	120.2*

Acreage in Long-term	Last Year's Cumulative	This Cal	endar Year		Commission Tetal
Facilities <sup>3</sup>	Total (from last year's ARR)	Acres Added (+)	Acres Subtracted (-)		Cumulative Total
Non-Permanent Facilities	43.3	0	0.4	Ш	42.9
Permanent Facilities (permitted)	0	0	0	II	0
Totals	43.3			=	42.9

Acres Seeded	Last Year's Cumulative Total	This Cale	endar Year		Constation Tatal
(permanent)	(from last year's ARR)	Acres Added (+)	Acres Subtracted (-)		Cumulative Total
9 Years and Less	27	93.2	0	=	120.2
10 Years and Greater	0	0	0	=	0
Totals	27			-	120.2

	Last Year's Cumulative Total	This Cal	endar Year		G 1.5 m.1
Bond Release	(from last year's ARR)	Acres Added (+)	Acres Subtracted (-)		Cumulative Total
Phase I Released	0	120.2	0	II	120.2
Phase II Released	0	0	0	II	0

## New Horizon North Mine

Phase III Released 0	0	= 0
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<sup>&</sup>lt;sup>1</sup>Includes pits, topsoil stripped areas in advance of pits, and spoil not backfilled and graded

<sup>&</sup>lt;sup>2</sup>Surface 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

<sup>&</sup>lt;sup>3</sup>Includes 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).

<sup>\*</sup>New Horizon North Mine noticed an issue with the acres topsoiled reported in 2017. The discrepancy was 3.4 acres and it has been corrected in the 2019 Annual Reclamation Report.

# **Attachment 1**

**Seed Mixture Tags** 

4	12	of 1	24
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Granite Seed - Denver 490 East 76th Ave., Unit A Denver, CO 80229

09-Apr-19

3-40376

Oats

### OATS

Lot Number: MONICO1B

Variety: Monico

Pure Seed: 99.79 %

Other Crop: 0.00 %

Iner: Matter: 0.21 %

Weed Seed: 0.00 %

Origin: MT

G + H or D:: 99 + 0 = 99

Date Tested: 21-FEB-19

Bulk Weight: 50.00 Lbs.

PLS Weight: 49.40 Lbs.

Noxious Weed: None Found

# O BUYER LIMITATIONS OF WARRANTIES AND REMEDIES

I and quality are dependent upon many factors beyond the control of the labeled seller and NO

TY is made for crop yield and quality. The labeled seller warrants that all seed sold has been labeled as inder applicable state and federal seed law and that the seed conforms to the label description, within differences. This warranty is in Lieu of all other warranties, express or implied, decreases. This warranty is in Lieu of all other warranties, express or implied, and gwarranties of merchantability and fitness for a particular purpose. There are another which extend beyond the description on the label.

shall be asserted against the labeled seller unless Buyer reports to the labeled seller within a reasonable er discovery inot to exceed thirty days), any condition that might lead to a complaint. BUYER'S E REMEDY FOR ANY CLAIM OR LOSS RESULTING FROM BREACH OF WARRANTY, BREACH OF CT OR NEGLIGENCE (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL S) SHALL BE: LIMITED TO REPÂYMENT OF THE PURCHASE PRICE.

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

	me: Temporary	INIX		3-386
x #:	192443		Ten	porary M
Pure	Common Name	Variety	G + D or H	Ordenia
3.79	SLENDER WHEATGRASS	Pryor	99 + 0 = 99	Origin
1.87	WESTERN WHEATGRASS	Arriba	92-TZ	CAN
0.00	CRESTED WHEATGRASS	Nordan	96-TZ	CAN
7.50	ORCHARDGEASS	Palute	96 + 0 = 96	OR
5.00	BLUEGRASS, CANADA	Canon	96 + 0 = 96	IWA .
2.45	SUNFLOWER, ANNUAL	Four Comers	98 -TZ	co
1.52	FIREWHEEL	VNS	9 + 70 = 79	MEX
1.48	CALIFORNIA POPPY	VNS	81 -TZ	WA
0.56	COREOPSIS, PLAINS	VNS	68 + 18 = 86	OK
	0.02 Other Crop	Date Te	sted: 07-Nov-17	
	1.79 Inert Matter	Hard S	eed: 1.22	
	0.02 Weed Seed	Noxious We	eed: barnyard grass	
The same	OTICE TO	overage: 50.000 Bulk #		TY is made
N. C.	TOTICE TO BUYER LIM TATIONS OF WARRANTS VIEW and quality are dependent upon mail of action yield and quality. The labeled seller was the	ny factors beyond the control of the la arrants that all seed sold has been labe to the label description, within recognize	sheled seller and NO WARRAN Pled as required under applicable	state and
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21 of 36 Granite Seed - Denver 15-Apr-19 From: 490 East 76th Ave. Unit A Denver, CO 80229 3-40377 AV 120 Alfalfa ALFALFA Lot Number: AV120-17-1NC Origin: SD Variety: AV120 G+Hor D:: 84 + 3 = 87 Pure Seed: 99.46 % Other Crop: 0.11 % Date Tested: 14-FEB-19 Inert Matter: 0.39 % Bulk Weight: 50.00 Lbs. Weed Seed: 0.04 % PLS Weight: 43.27 Lbs. Noxious Weed: None Found NOTICE TO BUYER LIMITATIONS OF WARKANTIES 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 warrants that all seed sold has been labeled as required under applicable state and federal seed law and that the seed conforms to the label description, within recognized tolerances THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A FART OULAR 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 discovery inot to exceed thirty days), any condition that might lead to a complaint. BUYERS EXCUSIVE 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, Minnesota, Mississippi, Montana, North Dakota, South Carolina (Section 46-21-260), South Dakota, Texas and Washington require arbitration, conciliation or mediation of disputes involving alleged defective seed before certain legal actions in ay be maintained against a seller. North Carolina offers an alternative to court action that allows claims to be investigated and heard before the Special Seed Board. A complaint (swom for AR. CO. FL. IL.

IN. MN. MS, MT. NC, SC, TX, WA; signed only, CA, GA, ID, ND, SD) must be filled with the Department of

Agriculture or Seed Commissioner (IN) or State Plant Board (AR) or Commissioner of Agriculture (NC) within such

Granita Seed - Denver 20-Feb-19 490 East 76th Ave., Unit A Denver, CO 80229 3-39789 Forage kochia KOCHIA, FORAGE Lot Number: V-109339 Variety: VNS Origin: UT Pure Seed: 79.49 % G + H or D:: 91 -TZ Other Crop: 0.00 % Date Tested: 21-DEC-18 Inert 1 20.51 % Bulk Weight: 34 8 Lbs. Weed Seed: 0.00 % PLS Weight: 25.00 Lbs. Noxious Weed: None Found NOTICE TO BUYER LIMITATIONS OF WARRANTIES AND SELVENINES Crop yield and quality are dependent upon many factors are yound the control of the labeled seller and NO WARRANTY Is made for crop yield and quality. The solder seller warrants that all seed sold has been labeled as required under applicable state and federal seed law and that the seed conforms to the label description, within recognized tolerances. THIS WARRANTY IS IN LIEU DE 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 discovery inot to exceed thirty days), any condition that might lead to a complaint. BUYER'S EXCUSIVE 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 med, Buyer agrees the terms and conditions stated above are a benefit to the bargain and constitute the entire agreement between Buyer and in a labeled seller. Buyer shall return the original unopened seed package to the labeled seller within twenty days a restal of for a sefund of the purchase price if not accepted under these terms. NOTICE: REQUIRED ARBITRATION / CONCILIATION / MEDIATION The seed laws of everal states including Arkansas, California, Colorado, Florida, Georgia, Idaho, Illinois, Indiana, Minnesota, Mississippi, Montana, North Dakota, South Carolina (Section 46-21-260), South Dakota, Texas and Washington require arbitration, conciliation or mediation of disputes involving alleged defective seed before certain legal actions if ay be maintained against a seller. North Carolina offers an alternative to court action that allows claims to be investigated and heard before the Special Seed Board. A complaint (swom for AR, CO, FL, IL, IN, MN, MS, MT, NC, SC, TX, WA, signed only, CA, GA, ID, ND, SD) must be filed with the Department of Agriculture or Seed Commission (IN) or State Plant Board (AR) or Commissioner of Agriculture (NC) within such time to permit an inspection of

ed, crops or plants (by an Arbitration Committee - AR, ID, MS, SC). In NC, failure

It the amount of damages recoverable. Certified copy of complaint must be sent by

registered mail to the labeled seller as pr

to follow this procedure will III



