



February 18, 2025

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

**RE: New Horizon Mine  
Permit No. C-1981-008  
2024 Annual Reclamation Report**

Dear Mr. Wein,

Tri-State Generation and Transmission Association, Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC New Horizon Mine. The New Horizon Mine operates under the Colorado Division of Reclamation, Mining, and Safety Permit No. C-1981-008.

In accordance with 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 Mine by permit is required to submit the report annually by March 15. Therefore, enclosed please find the Annual Reclamation Report for the calendar year 2024 as required.

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

Sincerely,

DocuSigned by:  
  
4BE980BE59E442F  
Chris Gilbreath  
Senior Manager  
Remediation and Reclamation

CG:TT

Enclosure

Cc: Tony Tennyson (via email)  
C.F. 11.1

**Elk Ridge Mining and Reclamation, LLC.**

**PERMIT NO. C-1981-008**

**NEW HORIZON MINE**

**2024 ANNUAL RECLAMATION REPORT**

**JANUARY 1, 2024 to DECEMBER 31, 2024**

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## **I. RULE REQUIREMENTS**

Rule 2.04.13(1)(a-f) states, by February 15, or such date agreed on (which is March 15 in Permit No. C-1981-008), each permitted shall file an annual reclamation report covering the previous calendar year for all areas under bond. The report shall include, but is 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

### **A. PERMITTEE**

Elk Ridge Mining & Reclamation, LLC  
New Horizon Mine  
Permit No. C-1981-008  
PO Box 628  
Nucla, CO 81424

### **B. DISTURBED AREAS**

During 2024, 0.0 acres of additional disturbance occurred onsite. There are currently 33.0 acres in non-permanent long-term facilities at the end of the year 2024, and 12.3 acres of long-term permanent facilities. Please see Figure 1.

### **C. BACKFILLING AND GRADING**

During 2024, 0.0 acres were backfilled and/or graded.

### **D. RECLAMATION ACTIVITIES**

#### **1. Spoil Quality**

The spoil sampling and analysis program for the New Horizon Mine is described in Section 2.05.4(2)(d) of the approved permit. The New Horizon Mine has conducted spoil quality analysis for all disturbed and reclaimed areas. Please refer to the previous Annual Reclamation Reports for spoil quality analyses. No additional sampling will occur for spoil quality.

#### **2. Topsoil**

The New Horizon Mine placed topsoil on 0.0 acres in 2024. Approximately 1,470 cubic yards of topsoil was removed from pile D in 2024 and moved to an

off permit location. This topsoil was donated to support a local project in the Nucla area. Please refer to Table 1 for the current volume of topsoil in stockpiles.

### **3. Seeding**

The approved seed mixtures utilized at the New Horizon Mine are in Section 2.05.4(2)(e) of the approved permit. During 2024, 7.6 acres of permanent seeding occurred at the New Horizon Mine.

### **4. Soil Fertility Testing, Topsoil Sampling and Fertilizer Application**

No topsoil sampling occurred in 2024.

Soil fertility testing was performed within reclamation parcel IC-1 in 2024. The results are presented on Figure 2. Based on these results the fertilizer applied to IC-1 in 2024 was 60-20-0 at 60 pounds/acre.

Fertilizer was applied to reclamation units IP-8 through IP-11 and the reference area. Fertilizer rates (pounds/acre) were increased in 2024 and fertilizer and rate that was applied was as follows:

<u><b>Fertilizer</b></u>	<u><b>Pounds/Acre Applied</b></u>
11-52-0 Phosphate	100
46-0-0 Urea	40

### **5. Grazing**

Data presented below includes reclamation parcels within the permit boundary that were grazed in 2024.

- ERM - Benson West & Lloyd Property (25 acres):
  - 30 head of cattle grazed from December 7, 2024 to January 15, 2025.
- IP-10 (2.9 acres)
  - 92 head of cattle grazed from March 1, 2024 to March 15, 2024
  - Note: There is not fencing between the IP-10 and the larger property that is outside the permit boundary. The landowner grazes the property as whole which includes IP-10.
- Reference Area (6.3 acres):
  - 20 head of cattle grazed from November 14, 2024 to January 15, 2025.

## **6. Irrigation**

The Colorado Cooperative Company commenced water deliveries on April 25, 2024, and New Horizon Mine began irrigation operations shortly thereafter. The Colorado Cooperative Company discontinued water delivery for the year on October 18, 2024.

## **7. Irrigated Pasture Yields**

- ERM - IP-8 (12.2 acres)
  - First cutting – 648 bales averaging 60 lbs
  - Second cutting – 345 bales averaging 60 lbs
- ERM -IP-9 (12.9 acres) & IP-11 (14.9 acres)
  - First cutting – 740 bales averaging 60 lbs
  - Second cutting – 817 bales averaging 60 lbs
- IP-10 (2.9 acres)
  - First cutting – 8 - 3x3 bales averaging 812 lbs
  - Second cutting – 3 – 3x3 bales averaging 790 lbs
- IC-1 (107.8 acres) including irrigated cropland reference area
  - First Cutting – 86 bales averaging 1,769 lbs
  - Second Cutting – 110 bales averaging 1,574 lbs
  - Third Cutting – 90 bales averaging 1,786 lbs
- Reference Area (6.3 acres):
  - First cutting – 301 bales averaging 60 pounds per bale
  - Second cutting – Did not cut

## **E. WILDLIFE MONITORING**

No wildlife monitoring occurred in 2024.

## **F. INTERIM REVEGETATION REPORT**

Interim revegetation monitoring did not occur in 2024.

## **G. WEED MANAGEMENT**

During 2024, various areas within the permit boundary were treated for noxious weeds by spot spraying and/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, buffalo bur, 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.

#### **H. PEST MANAGMENT**

Minimal prairie dog management occurred in 2024 on reclamation unit IC-1.

**Table 1 - Topsoil Stockpiled (End of Year 2024)**

Topsoil Pile Name	Type of Topsoil	Volume (CY)
<b>C</b>	Lift B Topsoil	3,705
<b>D</b>	<i>Mixed Topsoil</i>	<i>1,772</i>
<b>H</b>	Lift A Topsoil	2,363
<b>5</b>	Mixed Topsoil	150
<b>14</b>	Mixed Topsoil	2,063
<b>15</b>	Mixed Topsoil	119
<b>16</b>	Mixed Topsoil	1,685
<b>Sub Total</b>		13,327
<b>11A</b>	Lift A Topsoil (Morgan)	5,550
<b>11B</b>	Lift B Topsoil (Morgan)	4,070
<b>Sub Total</b>		9,620
<b>GRAND TOTAL</b>		22,947



## New Horizon Mine

**Table 2 – New Horizon Reclamation Table**

Reclamation Unit	Reclaimed Acres	Year Seeded	Revegetated Years	Bond Release Granted			Notes:
				Phase 1	Phase 2	Phase 3	
DP-5	1.1	2006	13	Approved	Approved	Approved	
DP-6	1.9	2007	12	Approved	Approved	Approved	
DP-9	6.5	2009	10	Approved	Approved	Approved	
DP-10	8.1	2011	13	Approved	Approved		
DP-11	1.7	2011	13	Approved	Partial		
DP-12	0.7	2012	12	Approved	Approved		
DP-13	0.4	2013	11	Approved	Approved		
DP-14	2.0	2013	11	Approved	Partial		
DP-15	2.3	2014	10	Approved	Approved		
DP-16	1.4	2016	8	Approved	Approved		
DP-17	3.5	2018	6	Approved	Approved		
DP-18	6.5	2012	12	Approved			Reduced by 1.0 in 2023 for unit DP-20
DP-19	3.7	2021	3	Approved			
DP-20	42.2	2023	1	Approved			
DP-21	32.8	2023	1	Approved			
IP-8	12.2	2014	10	Approved			
IP-9	12.9	2014	10	Approved	Approved		
IP-10	2.9	2016	9	Approved	Approved		Spring seeding in 2016; therefore, one full growing season in 2016.
IP-11	12.3	2020	5	Approved			Spring seeding in 2020; therefore, one full growing season in 2020. Reduced in 2023 for unit IP-12.
IP-12	2.6	2024	1	Approved			Spring seeding in 2024; therefore, one full growing season in 2024.
IC-1	107.8	2015	10	Approved	Approved		Spring seeding in 2015; therefore, one full growing season in 2015.
PF-1	5.0	2024	1	Approved			Spring seeding in 2024; therefore, one full growing season in 2024.
<b>Grand Total</b>	<b>270.5</b>						

Please see Map 1 for locations of the reclamation units noted above.

# New Horizon Mine

## Figure 1 - Annual Reclamation Report Form Colorado Division of Reclamation, Mining and Safety Annual Reclamation Report for Calendar Year – 2024

New Horizon Mine	C-1981-008	Elk Ridge Mining & Reclamation, LLC.
Mine Name	Permit Number	Permittee
P.O Box 628 – 27646 W. 5 <sup>th</sup> 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	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	310.3	0	3.1 <sup>1</sup>	=	307.2
Acres Backfilled and Graded	265.0	0	3.1 <sup>1</sup>	=	261.9
Acres Topsoiled	262.9 <sup>2</sup>	0	3.1 <sup>1</sup>	=	270.5

Acreage in Long-term Facilities <sup>3</sup>	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Non-Permanent Facilities	10.4	22.6	0	=	33.0 <sup>3</sup>
Permanent Facilities (permitted)	8.9	3.4	0	=	12.3 <sup>3</sup>
Totals	19.3			=	45.3

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	207.8	0	101.4	=	106.4
10 Years and Greater	53.7	110.4	0	=	164.1
Totals	261.5			=	270.5

Bond Release	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Phase I Released	168.2	85.5	3.1 <sup>1</sup>	=	250.6
Phase II Released	158.4	0	3.1 <sup>1</sup>	=	155.3
Phase III Released	13.1	0	3.1 <sup>1</sup>	=	10.0

<sup>1</sup>Acres were reduced due to a permit boundary reduction removing Phase III areas from the permit (TR-106).

<sup>2</sup>The total topsoil acres reported in 2023 (261.5 acres) was incorrect and should have been 262.9 acres. This has been corrected to reflect the correct total acres topsoiled from 2023.

<sup>3</sup>Long-term facilities acres were audited in 2024 to confirm that the backfilled/graded acres plus long-term facilities acres plus active mining area acres equals the total disturbance acres. The acreages reflected in this 2024 Annual Reclamation Report Form document this audit.

Figure 2 – Topsoil Fertility Testing

## SOIL ANALYSIS REPORT

SKU 557 1 @ 590.50

<b>CLIENT:</b> 18393	FRUITA CONSUMERS COOP NUCLA COOP COUNTRY STORE 995 MAIN STREET PO BOX 399 NUCLA, CO 81424	 www.servitech.com	1602 Park West Dr. PO Box 169 Hastings, NE 68902 800.557.7509 402.463.3522 Fax 402.463.8132	<b>LAB NO:</b> 104389 - 104398
				<b>INVOICE NO:</b> 605061
				<b>DATE RECEIVED:</b> 02/20/2024
				<b>DATE REPORTED:</b> 02/22/2024

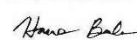
SOIL ANALYSIS RESULTS FOR: ELK RIDGE MINE & RECLAIM														FIELD ID: ERMR						
METHOD USED:							Cd Reduction		Mehlich 3											OTPA Soil/soil
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH		Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm lb. N/A	Phosphorus ppm P	Potassium ppm K			Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
104389	ERMR 1	0 - 8						3.3	8	35										0.45
104390	ERMR 2	0 - 8						4.7	11	14										0.41
104391	ERMR 3	0 - 8						4.9	12	52										0.63
104392	ERMR 4	0 - 8						3.9	9	39										0.59
104393	ERMR 5	0 - 8						4.1	10	37										0.41
104394	ERMR 6	0 - 8						7.7	18	36										0.51
104395	ERMR 7	0 - 8						8.6	21	56										0.84
104396	ERMR 8	0 - 8						9.6	23	55										0.68
104397	ERMR 9	0 - 8						7.9	19	42										0.41
104398	ERMR 10	0 - 8						10.4	25	46										0.76

METHOD USED:											Hg Thiocyanate		KCl Extr.		Bicarb P	KCl Extr.	c-Bray P1	c-Bray P2										
Lab Number	Sample ID	Sample Depth	Chloride ppm lb. CHA		Ammonium Nitrogen ppm lb. N/A		Phosphorus ppm P	Aluminum ppm Al	Bray Phosphorus ppm P	Phosphorus ppm P																		
104389	ERMR 1	0 - 8	<1	2.4	2	5	17	1	31	76																		
104390	ERMR 2	0 - 8	1	2.4	2	5	7	1	12	40																		
104391	ERMR 3	0 - 8	<1	2.4	2	5	21	4	46	106																		
104392	ERMR 4	0 - 8	1	2.4	2	5	19	1	35	84																		
104393	ERMR 5	0 - 8	<1	2.4	1	2	15	1	32	79																		
104394	ERMR 6	0 - 8	<1	2.4	2	5	14	1	32	78																		
104395	ERMR 7	0 - 8	4	9.6	2	5	20	1	49	112																		
104396	ERMR 8	0 - 8	<1	2.4	2	5	24	1	49	111																		
104397	ERMR 9	0 - 8	4	9.6	3	7	18	1	37	89																		
104398	ERMR 10	0 - 8	3	7.2	3	7	15	1	41	95																		

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and  
Approved By:Hans Burken  
Lab ManagerPage 1 of 2  
02/22/2024 1:52 pm

The reported analytical results apply only to the sample as it was supplied. The report may not be reproduced, except in full, without permission of ServiTech.

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## SOIL ANALYSIS REPORT

<b>CLIENT:</b>	FRUITA CONSUMERS COOP
18393	NUCLA COOP COUNTRY STORE
	995 MAIN STREET
	PO BOX 399
	NUCLA, CO 81424



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<b>LAB NO:</b>	104389 - 104398
<b>INVOICE NO:</b>	605061
<b>DATE RECEIVED:</b>	02/20/2024
<b>DATE REPORTED:</b>	02/22/2024

## SOIL ANALYSIS RESULTS FOR: ELK RIDGE MINE &amp; RECLAIM

FIELD ID: ERMR

## FERTILIZER RECOMMENDATIONS:

## POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Time: ECC Tons/A to raise pH to			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Zn	S	Mn	Cu	MgO	B	Ca	Cl	Cation Exchange Capacity					
				5.0	6.5	7.0												CEC	%H	%K	%Ca	%Mg	%Na
104389	ERMR 1	ALFALFA	5.5 tons					15							1								
104390	ERMR 2	ALFALFA	5.5 tons					70							1								
104391	ERMR 3	ALFALFA	5.5 tons					0							0								
104392	ERMR 4	ALFALFA	5.5 tons					0							0.5								
104393	ERMR 5	ALFALFA	5.5 tons					20							1								
104394	ERMR 6	ALFALFA	5.5 tons					25							0.5								
104395	ERMR 7	ALFALFA	5.5 tons					0							0								
104396	ERMR 8	ALFALFA	5.5 tons					0							0								
104397	ERMR 9	ALFALFA	5.5 tons					10							1								
104398	ERMR 10	ALFALFA	5.5 tons					20							0								

## SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 104389, 104390, 104391, 104392, 104393, 104394, 104395, 104396, 104397, 104398

**PHOSPHORUS:** The Mehlich-3 phosphorus value was used to calculate the phosphate fertilizer recommendation.

Lab Number(s): 104389, 104390, 104391, 104392, 104393, 104394, 104395, 104396, 104397, 104398

**PHOSPHORUS:** The c-Bray-P1 equivalent was calculated from the Mehlich-3 phosphorus concentrations.

Lab Number(s): 104389, 104390, 104391, 104392, 104393, 104394, 104395, 104396, 104397, 104398

**PHOSPHORUS:** The c-Bray-P2 equivalent was calculated from the Mehlich-3 phosphorus and calcium concentrations using the Louisiana NRCS correlation.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and

Hans Burken

Page 2 of 2

Approved By:

Lab Manager

02/22/2024 1:52 pm

The reported analytical results apply only to the sample as it was supplied. The report may not be reproduced, except in full, without permission of ServiTech.

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