



May 16, 2021

Mrs. Janet Binns
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
Phase I, II & III Bond Release Application (SL-25)**

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 Mine. Therefore, Tri-State is submitting a Phase I, II, and III Bond Release Application, denoted as SL-25, on behalf of the New Horizon Mine. The New Horizon Mine operates under Permit No. C-1981-008.

The SL-25 bond release application is applying for Phase I, II, and III bond release for nine plugged and abandoned monitoring wells and two plugged and abandoned backfill wells. Phase I bond release is being applied for 24.5 acres that have been backfilled and graded, and Phase II bond release is being applied for 11.4 acres of dryland and irrigation pasture reclamation areas.

It is requested that through this application the Division calculate the reduction in bond liability for the areas included in this application. Tri-State is commencing the public notification process in accordance with Rule 3.03.2(1)(b), and once the final public notice publishes in the local paper, the affidavit of publication will be provided to the Division in compliance with Rule 3.03.2(1)(b).

If you have any questions about the enclosed bond release application, please contact Tony Tennyson at (970) 824-1232 or tennyson@tristategt.org.

Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

DJC:TT:der

Enclosures

cc: Tony Tennyson (via email)
File: G475-11.3(21)b-6

New Horizon Mine

Permit No. C-1981-008

**Application for Phase I, II and III
Performance Bond Release**

SL-25

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I. General

Elk Ridge Mining and Reclamation LLC, New Horizon Mine, Permit No. C-1981-008, is submitting this application for Phase I, II, and III performance bond release for nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that has been backfilled, graded, and topsoiled, and Phase II performance bond release for 11.4 acres that has been topsoil and vegetative growth has occurred.

The current reclamation liability for the New Horizon Mine is \$1,683,278, and New Horizon Mine currently holds a surety bond in the amount of \$1,685,639. With this application, the New Horizon Mine will be requesting relinquishment of 100% of the bond held for these nine monitoring wells and two backfill wells, 60% of the bond held for the Phase I areas, and 25% of the bond held for the Phase II areas.

II. Summary Information

A. General Location Description

The nine monitoring wells that are requested for Phase I, II, and III bond release are located within the following locations:

**Township 47 North, Range 16 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
NW ¼ NW ¼ SE ¼ of Section 36

**Township 47 North, Range 15 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
SW ¼ SE ¼ NW ¼ of Section 31

**Township 46 North, Range 15 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
*NW ¼ SW ¼ SW ¼ of Section 6,
SW ¼ NE ¼ NE ¼ of Section 6, and
SE ¼ SE ¼ NW ¼ of Section 6*

The two backfill wells that are requested for Phase I, II, and III bond release are located within the following locations:

**Township 47 North, Range 16 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
SE ¼ NW ¼ SE ¼ of Section 36

**Township 47 North, Range 15 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
SW ¼ SE ¼ NW ¼ of Section 31

The 24.5 acres that are requested for Phase I bond release are located within the following locations:

**Township 47 North, Range 16 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
*SE ¼ SW ¼ W ½ of Section 36, and
SE ¼ NW ¼ SW ¼ of Section 36*

**Township 46 North, Range 15 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
*SE ¼ NE ¼ of Section 6, and
SE ¼ SE ¼ NE ¼ of Section 6*

The 11.4 acres that are requested for Phase II bond release are located within the following locations:

**Township 47 North, Range 16 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
SE ¼ NW ¼ SW ¼ of Section 36

**Township 46 North, Range 15 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
*SE ¼ NE ¼ of Section 6,
NW ¼ NE ¼ NE ¼ of Section 6,
NW ¼ NE ¼ NW ¼ of Section 6, and
NE ¼ NW ¼ NW ¼ of Section 6*

Please see Map 1, 2, and 4 for exact locations being applied for bond release in this application.

B. Public Notice

Pursuant to the Rules and Regulation of the Colorado Mined Land Reclamation Board published August 1980, and pursuant to the Colorado Surface Coal Mining Reclamation Act 34-33-101, et seq., notice is hereby given of the filing of an application for Phase I, II, and III Bond Release of a portion of the New Horizon Mine site. The application is denoted as SL-25 and pertains to the New Horizon Mine, Permit No. C-1981-008 (approved April 6, 1983) by Elk Ridge Mining and Reclamation, LLC, P. O. Box 628, Nucla, Colorado 81424, filed with the Colorado Division of Reclamation, Mining and Safety (CDRMS), Colorado Department of Natural Resources, 1313 Sherman Street, Room 215, Denver, Colorado 80203. The New Horizon Mine is located approximately 2 miles west of Nucla, Colorado.

The Phase I, II and III bond release application is for nine plugged and abandoned monitoring wells and two plugged and abandoned backfill wells. All eleven wells were plugged and abandoned in November of 2021. The status of these wells being applied for bond release is consistent with the requirements of plugging and abandoning monitoring wells.

The Phase I bond release areas applied for, contains areas backfilled, graded, and topsoil replacement has occurred. Once location is a post mine stock pond. The Phase I bond release areas total 24.5 acres. The Phase II bond release areas applied for were reclaimed in 2011-2013, 2016, and 2018, and totals 11.4 acres. The work to reclaim the Phase II bond release areas included topsoiling and seeding the areas with the approved seed mixtures. All areas being applied for bond release are consistent with the requirements of the New Horizon Mine permit backfilling, grading, proper topsoil replacement thickness and revegetation success that supports the post mine land use. The areas being applied for bond release are shown on Maps 1, 2 and 4 within the application. Listed below is a legal description of these areas being application for bond release:

The nine monitoring wells that are requested for Phase I, II, and III release are located within the following locations:

**Township 47 North, Range 16 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
NW ¼ NW ¼ SE ¼ of Section 36

**Township 47 North, Range 15 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
SW ¼ SE ¼ NW ¼ of Section 31

**Township 46 North, Range 15 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
*NW ¼ SW ¼ SW ¼ of Section 6,
SW ¼ NE ¼ NE ¼ of Section 6, and
SE ¼ SE ¼ NW ¼ of Section 6*

The two backfill wells that are requested for Phase I, II, and III bond release are located within the following locations:

**Township 47 North, Range 16 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
SE ¼ NW ¼ SE ¼ of Section 36

**Township 47 North, Range 15 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**
SW ¼ SE ¼ NW ¼ of Section 31

The 24.5 acres that are requested for Phase I bond release are located within the following locations:

**Township 47 North, Range 16 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**

*SE ¼ SW ¼ W ½ of Section 36, and
SE ¼ NW ¼ SW ¼ of Section 36*

**Township 46 North, Range 15 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**

*SE ¼ NE ¼ of Section 6, and
SE ¼ SE ¼ NE ¼ of Section 6*

The 11.4 acres that are requested for Phase II bond release are located within the following locations:

**Township 47 North, Range 16 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**

SE ¼ NW ¼ SW ¼ of Section 36

**Township 46 North, Range 15 West of the 6th P.M. New Mexico Principal Meridian,
County of Montrose, State of Colorado**

*SE ¼ NE ¼ of Section 6,
NW ¼ NE ¼ NE ¼ of Section 6,
NW ¼ NE ¼ NW ¼ of Section 6, and
NE ¼ NW ¼ NW ¼ of Section 6*

The New Horizon Mine currently holds a surety in the amount of \$1,685,639, which includes the above wells and areas being applied for bond release. With this application, the New Horizon Mine will be requesting relinquishment of 100% of the bond held for these nine monitoring wells and two backfill wells, 60% of the bond held for the Phase I areas, and 25% of the bond held for the Phase II areas.

A copy of the bond release application is on file at the Montrose County Courthouse Annex, 300 Main Street, Nucla, Colorado and the Colorado Division of Reclamation Mining and Safety at Department of Natural Resources, 1313 Sherman Street, Room 215, Denver, Colorado 80203.

Written comments, objections, and requests for a public hearing or informal conference concerning this bond release application should be addressed to the Colorado Division of Reclamation Mining and Safety, Department of Natural Resources, 1313 Sherman Street, Room 215, Denver, Colorado 80203.

Comments must be filed within thirty (30) days from the last date of this publication, or within thirty (30) days of the completed inspection by the CDRMS, whichever is later.

C. Written Notifications

Prior to filing this request for bond release with the Division the following parties were notified. Copies of the letters provided are included herein as Appendix A.

Federal	Board of County Commissioners
Natural Resource Conservation Service 40785 CO State Highway 145 P. O. Box 29 Norwood, CO 81423-0488	Montrose County Board of County Commissioners 317 South 2 nd Street Montrose, CO 81401

Regional Planning Commissions	Sewage and Water Treatment Authorities
Montrose County Planning Department Montrose County Courthouse 317 South 2 nd Street Montrose, CO 81401	City of Nucla/Nucla Sanitation District P. O. Box 219 Nucla, CO 81424

Water Conservancy & Water Conservation Districts	Irrigation Water Control
Colorado River Water Conservation District P. O. Box 1120 Glenwood Springs, CO 81602	Colorado Cooperative Company P. O. Box 231 Nucla, CO 81424

Surface Landowners	
Mr. Dirk Richards P.O. Box 153 Nucla, CO 81424	Elk Ridge Mining and Reclamation, LLC ¹ P.O. Box 628 Nucla, Colorado 81424
GW46 Irrevocable Trust P.O. Box 587 Nucla, CO 81424	Mr. and Mrs. Elmer Burbridge P.O. Box 463 Nucla, CO 81424

¹Elk Ridge Mining and Reclamation, LLC is the mine permittee and surface landowner. A letter was not sent to Elk Ridge Mining and Reclamation, LLC since it is the applicant also.

Adjoining Surface Owners	
Elk Ridge Mining and Reclamation, LLC ¹ P.O. Box 628 Nucla, Colorado 81424	Mr. Melvin & Mrs. Leann Staats P.O. Box 610 Nucla, CO 81424
Mr. Raymond & Mrs. Nora Davis P.O. Box 442 Nucla, CO 81424	Wounded Knee LLC P.O. Box 555 Nucla, CO 81424
City of Nucla P.O. Box 219 Nucla, CO 81424	Mrs. Patty Morgan P.O. Box 336 Nucla, CO 81424
George V. Kirkwood III Trust P.O. Box 70 Camp Verde, AZ 86322	Garvey Bros. Land & Cattle, LLC Garvey & Company LLC Attn: Stan and Tommy Joe Garvey P. O. Box 555 Nucla, CO 81424
Mrs. Nancy Enstrom P.O. Box 354 Nucla, CO 81424	Mr. Greg Massini 24 Hulett Hill Road Sheffield, MA 01257
MT Place LLC Attn: Mrs. Marla Fritzlen P.O. Box 82 Nucla, CO 81424	Mr. Lester Goforth c/o Mr. Kevin Goforth 607 33 ¾ Road Clifton, CO 81520
Slash M. LLC P.O. Box 346 Nucla, CO 81424	Mr. and Mrs. Michael Moore P. O. Box 326 Nucla, CO 81424
Wilson Family Living Trust 1515 Ptarmigan Court North Grand Junction, CO 81506	Robert and Dorothy Burbridge P.O. Box 51 Nucla, CO 81424
Larry Campbell and Eleasha Hemphill P.O. Box 458 Paradox, CO 81429	

III. Monitoring and Backfill Wells

A. General Description

The nine monitoring wells and two backfill wells being applied for Phase I through III bond release under this application were plugged and abandoned in November of 2021. The location of each well is presented on Map 1. The abandonment reports for each well are on file and available at the New Horizon Mine office (27646 West 5th Nucla, CO 81424), and with the Colorado Division of Water Resources. Further, the abandonment reports for all abandoned wells were submitted (via email) to the Colorado Division of Reclamation Mining and Safety in accordance with Rule 4.07.3(2) on December 16, 2021.

The ten-year minimum bond liability period is not applicable for monitoring wells nor backfill wells. There is not any topsoil replacement nor any revegetation component for a monitoring well location.

B. Topsoil Replacement

The applicability of Rule 4.06.4 does not apply to wells.

C. Revegetation Success Demonstration

The applicability of Rule 4.15.8 does not apply to wells.

D. Post-Mining Land Use

Ten of the wells being applied for bond release are located outside the permit boundary on private property, thus the post-mine land use requirements are not applicable. Well MW-BF-63 (please refer to Map 1 for the location) is within the permit boundary and within area that has already been approved for Phase III bond release. Therefore, the requirement for this location to meet the post-mine land use are not applicable.

E. Surface and Groundwater Impact Analysis

An analysis pertaining to surface and groundwater impacts is not applicable to plugging and abandoning wells.

IV. Phase I Bond Release Areas

A. General Description

As shown on Map 2, 24.5 acres are requested for Phase I bond release. The Phase I bond release areas are comprised of three distinct parcels.

The work completed for all three Phase I bond release parcels included regrading to the approved post-mining topography and a consistent blending to surrounding topography. One area is the SP-2 stock pond which will remain post-mining as a permanent impoundment. All areas have been topsoiled and seeded also.

The Phase I bond release areas have been regraded to be reasonably consistently with the approved post-mining topography (See Map 2.05.4-1 in Permit No. C-1981-008 for the approved post-mining topography), and follows all criteria set forth for Phase I bond release by the Division.

Please refer to Map 3 for a representative cross-sections for the Phase I bond release area in relation to the approved post-mining topography, except for the SP-2 stock pond. The as-built configuration for the SP-2 stock pond is found on Map 2.05.3(3)-39. There is some deviation shown on profiles B-B' between the final graded surface and the approved post-mine topography. Given this, the regraded and topsoiled areas being applied for Phase I blend in consistency with the surrounding native areas, including the Lincoln Haul Road which is permitted as a permanent structure.

V. Phase II Bond Release Areas

A. General Description

As shown on Map 4, each area requested for bond release is comprised of smaller units, which correspond to the specific year that backfilling, grading, and reseeding were performed. The work completed includes regrading to the approved post-mining topography, topsoil replacement, and seeding with the approved seed mix. Grading and topsoil replacement was generally performed in the summer and fall months with seeding occurred in the fall. Phase I bond release has been granted on all parcels being applied for Phase II. The following table presents when each reclamation parcel was seeded.

Reclamation Unit	Total Acres	Seeded (Year)
DP-10*	2.5	2011
DP-12	0.7	2012
DP-13	0.4	2013
DP-16	1.4	2016
DP-17	3.5	2018
IP-10	2.9	2016

*Reclamation Unit DP-10 was previously partially Phase II bond released.

B. Topsoil Replacement

Topsoil replacement depths on the areas being applied for Phase II bond release are presented on the table below. Please refer to Map 4 for the locations of each reclamation unit noted.

Reclamation Unit	Topsoil Replacement Depths
DP-10	12" – 20" (13" average)
DP-12	12" – 20" (13" average)
DP-13	12" – 20" (13" average)
DP-16	22" Average
DP-17	22" Average
IP-10	21" Average

C. Revegetation Success Demonstration

Pursuant to Rule 4.15.8(3), Phase II bond liability release will be considered acceptable if the vegetative establishment on the reclaimed land meets the requirement of 90% herbaceous cover of the reference area standard with 90% statistical confidence. Please see Appendix B for information addressing vegetation establishment and sample locations for the areas being applied for Phase II bond release.

D. Erosion Control

Any rills and gullies that may occurred during the initial years of revegetation were mitigated when they occurred. Successful revegetation establishment as demonstrated in this Phase II bond release application continues to assist these reclamation units to remain erosion free and stable.

E. Sedimentology

In accordance with Rule 3.03.3(b), bond liability release cannot be granted until the applicant demonstrates that the existing revegetated area will result in equivalent or lesser sediment contributions to surface runoff when compared with pre-mining levels as determined by baseline data. Please see Appendix B, which documents the sediment contributions for the areas being applied for Phase II bond release.

IV. Notarized Statement

Pursuant to Rule 3.03.2(1)(e) each bond release application is required to provide a notarized statement that the reclamation activities have been accomplished in accordance with the requirements of the act and the approved reclamation plan.

I, Chris Gilbreath, Senior Manager Remediation and Reclamation, Tri-State Generation and Transmission Association, Inc., hereby certify that the information contained within this application is correct and true to the best of my knowledge.

Signed: 
Name: Chris Gilbreath
Title: Senior Manager Remediation and Reclamation
Tri-State Generation and Transmission Association, Inc.

State of Colorado

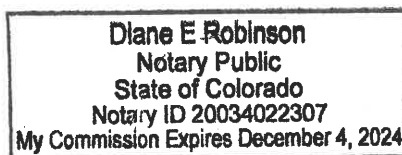
County of Adams

The foregoing instrument was acknowledged before me this 13th day of May, 2022 by Chris Gilbreath, as the Senior Manager Remediation and Reclamation of Tri-State Generation and Transmission Association, Inc., a Colorado cooperative corporation, on behalf of the corporation.


Notary Public
Print Name: Diane E. Robinson

Witness my hand and official seal
My commission expires:

December 4, 2024



Appendix A

Notification Letters for SL-25 Bond Release Application



May 16, 2022

Mr. and Mrs. Elmer Burbridge
P. O. Box 92
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

Dear Mr. and Mrs. Burbridge,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

This written notice is sent to you pursuant to Colorado Division of Reclamation, Mining and Safety (CDRMS) Rule 3.03.2(1). Prior to filing a request for the bond release, New Horizon Mine must send written notices of intention to seek bond release to you as *the surface landowner*. Additionally, enclosed please find a copy of the Public Notice, which will be published in the San Miguel Basin Forum in the near future.

If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at ttennyson@tristategt.org.

Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Larry Campbell and Eleasha Hemphill
P.O. Box 458
Paradox, CO 81429

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoil and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

This written notice is sent to you pursuant to Colorado Division of Reclamation, Mining and Safety (CDRMS) Rule 3.03.2(1). Prior to filing a request for the bond release, New Horizon Mine must send written notices of intention to seek bond release to you as an *adjoining surface landowner*. Additionally, enclosed please find a copy of the Public Notice, which will be published in the San Miguel Basin Forum in the near future.

If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at tennyson@tristategt.org.

Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Colorado Cooperative Ditch Company
P. O. Box 231
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for approximately 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at ttennyson@tristategt.org.

Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

City of Nucla/Nucla Sanitation District
P. O. Box 219
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

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Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Colorado River Water Conservation District
P.O. Box 1120
Glenwood Springs, CO 81602

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for approximately 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Mr. and Mrs. Raymond Davis
P. O. Box 555
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

Mr. and Mrs. Davis,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Gilbreath".

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Mrs. Nancy Enstrom
P. O. Box 354
Nucla, CO 81424

RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release

Dear Mrs. Enstrom

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

This written notice is sent to you pursuant to Colorado Division of Reclamation, Mining and Safety (CDRMS) Rule 3.03.2(1). Prior to filing a request for the bond release, New Horizon Mine must send written notices of intention to seek bond release to you as an adjacent surface landowner. Additionally, enclosed please find a copy of the Public Notice, which will be published in the San Miguel Basin Forum in the near future.

If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at ttennyson@tristategt.org.

Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Garvey Bros. Land & Cattle, LLC
Garvey & Company LLC
Attn: Stan and Tommy Joe Garvey
P. O. Box 555
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

This written notice is sent to you pursuant to Colorado Division of Reclamation, Mining and Safety (CDRMS) Rule 3.03.2(1). Prior to filing a request for the bond release, New Horizon Mine must send written notices of intention to seek bond release to you as an *adjacent surface landowner*. Additionally, enclosed please find a copy of the Public Notice, which will be published in the San Miguel Basin Forum in the near future.

If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at tennyson@tristategt.org.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Gilbreath", written over a horizontal line.

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Mr. Lester Goforth
c/o Mr. Kevin Goforth
607 33 ¾ Road
Clifton, CO 81520

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

Dear Mr. Goforth,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

This written notice is sent to you pursuant to Colorado Division of Reclamation, Mining and Safety (CDRMS) Rule 3.03.2(1). Prior to filing a request for the bond release, New Horizon Mine must send written notices of intention to seek bond release to you as an *adjoining surface landowner*. Additionally, enclosed please find a copy of the Public Notice, which will be published in the San Miguel Basin Forum in the near future.

If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at tennyson@tristategt.org.

Sincerely,

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Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

GW46 Irrevocable Trust
P. O. Box 587
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

This written notice is sent to you pursuant to Colorado Division of Reclamation, Mining and Safety (CDRMS) Rule 3.03.2(1). Prior to filing a request for the bond release, New Horizon Mine must send written notices of intention to seek bond release to you as a surface landowner that Phase II bond release is being applied for on your property. Additionally, enclosed please find a copy of the Public Notice, which will be published in the San Miguel Basin Forum in the near future.

If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at tennyson@tristategt.org.

Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

George V. Kirkwood III Trust
P. O. Box 70
Camp Verde, AZ 86322

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To whom it may concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Mr. Greg Massini
24 Hulett Hill Road
Sheffield, MA 01257

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

Dear Mr. Massini,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Montrose County Board of County Commissioners
317 South 2nd Street
Montrose, CO 81401

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at ttennyson@tristategt.org.

Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



TRI-STATE

May 16, 2022

Montrose County Planning Department
Montrose County Courthouse
317 South 2nd Street
Montrose, CO 81401

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Mr. and Mrs. Michael Moore
P. O. Box 326
Nucla, CO 81424

RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release

Mr. and Mrs. Moore,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at tennyson@tristategt.org.

Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

MT Place LLC
Attn: Mrs. Marla Fritzlen
P. O. Box 82
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

Dear Mrs. Fritzlen,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at tennyson@tristategt.org.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Gilbreath".

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Natural Resource Conservation Service
102 Par Place, Suite 4
Montrose, CO 81401-4144

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at ttennyson@tristategt.org.

Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Mrs. Patty Morgan
P. O. Box 336
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

Mrs. Morgan,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at ttennyson@tristategt.org.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Gilbreath".

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Mr. Dirk Richards
P. O. Box 153
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

Dear Mr. Richards,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

This written notice is sent to you pursuant to Colorado Division of Reclamation, Mining and Safety (CDRMS) Rule 3.03.2(1). Prior to filing a request for the bond release, New Horizon Mine must send written notices of intention to you as the surface landowner. Additionally, enclosed please find a copy of the Public Notice, which will be published in the San Miguel Basin Forum in the near future.

If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at tennyson@tristategt.org.

Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Robert and Dorothy Burbridge
P.O. Box 51
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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If you should have any questions regarding this letter of notice for the SL-25 bond release application, please contact Tony Tennyson at your convenience at (970) 326-3560 or at ttennyson@tristategt.org.

Sincerely,

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Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Slash M, LLC
Attn: JoEllen Turner
P.O. Box 346
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

Dear JoEllen,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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Sincerely,

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Mr. and Mrs. Melvin Staats
P. O. Box 555
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

Mr. and Mrs. Staats,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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Sincerely,

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Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Wilson Family Living Trust
1515 Ptarmigan Court North
Grand Junction, CO 81506

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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Sincerely,

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Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:TT:der

Enclosure

Cc: Tony Tennyson (via email)
Janet Binns (w/o attachments)
C.F. 11.1 - G474-11.3(21)c-9



May 16, 2022

Wounded Knee LLC
P.O. Box 555
Nucla, CO 81424

**RE: New Horizon Mine
Permit No. C-1981-008
Notice of Intent to Seek Phase I, II, and III Bond Release**

To Whom It May Concern:

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Elk Ridge Mining and Reclamation, LLC, New Horizon Mine. Therefore, Tri-State on behalf of the New Horizon Mine is notifying you that New Horizon Mine is submitting an application for Phase I, II, and III performance bond release on nine monitoring wells and two backfill wells, Phase I performance bond release for 24.5 acres that have been backfilled and graded, and Phase II bond release on 11.4 acres that have been topsoiled and have vegetative growth. This application for Phase I, II, and III bond release, when submitted, will be denoted as SL-25.

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Sincerely,

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Chris Gilbreath
Senior Manager
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C.F. 11.1 - G474-11.3(21)c-9

Appendix B

2021 Phase II Revegetation Evaluation Report

2021 Phase II Revegetation Evaluation Report

NEW HORIZON MINE

PERMIT NO. C-1981-008

May, 2022

Prepared by:



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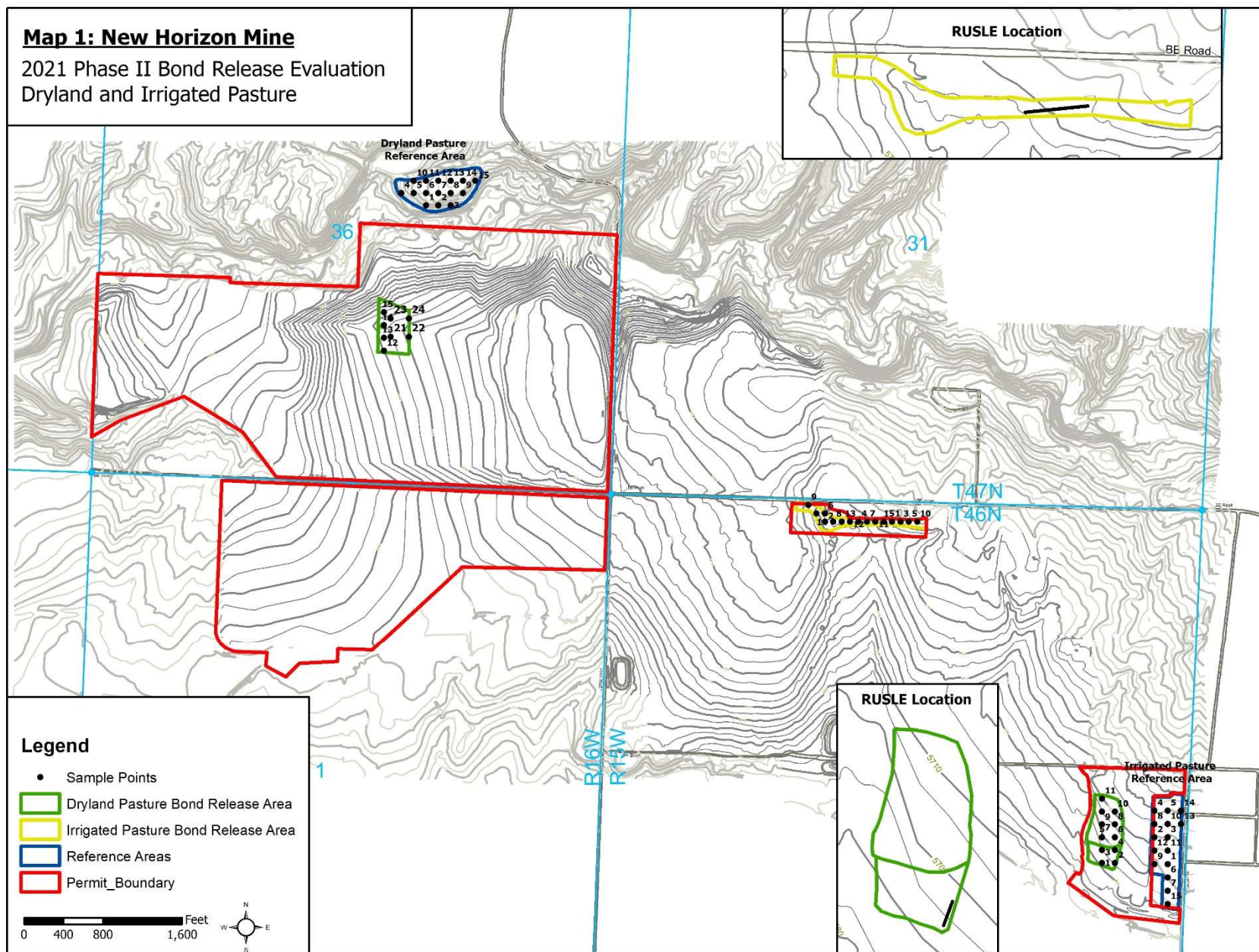
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1.0 INTRODUCTION

1.1 General

Cedar Creek Associates, Inc. (Cedar Creek) was contracted in 2021 by New Horizon Mine (New Horizon) to evaluate selected revegetated units for Phase II bond release. In addition, two reference areas (Irrigated Pasture and Old Peabody Sage) were sampled to provide cover comparison values to facilitate an evaluation of success for the reclaimed units. Data collection was performed in accordance with Permit Section 2.05.4(2)(e) and Colorado Division of Minerals and Geology's Regulations of the Colorado Mined Land Reclamation Board for Coal Mining (Section 4.15). Sampling on Phase II Revegetation and associated Reference Areas occurred June 9-11, 2021, by or under the direct supervision of Cedar Creek's Senior Reclamation Ecologist, Mr. Jesse Dillon. The sample points for Dryland Pasture and Irrigated Pasture Phase II Bond Release and reference areas evaluated in 2021 are provided on Map 1.

Field sampling for the directly measurable variable of ground cover was systematically conducted across the entire Phase II bond release lands and reference areas. Statistical comparisons for each reclamation area were made against each unit's assigned reference area. All statistical procedures followed were those approved per Permit Section 2.05.4(2)(e). Evaluated areas were sampled to meet or exceed the minimal sample size as established by the Permit and meet statistical adequacy for pertinent variables.



1.2 Background

New Horizon's Phase II revegetated lands are comprised of 11.4 acres from two types of target post-mine land uses, including, Dryland Pasture and Irrigated Pasture reclamation areas. Post-mining land use is Dryland Pasture, with a goal of providing reasonably productive forage for livestock during semi-arid conditions without the need for irrigation. The Dryland Pasture Bond Release Area standards will be based on the Old Peabody Sage Reference Area. The Dryland Pasture areas are comprised of 8.5 acres across four revegetated units, which were seeded between 2011 and 2018.

The Irrigated Pasture areas are comprised of 2.9 acres from one revegetated unit, which was seeded in 2016. Sampling was conducted prior to any growing season livestock grazing and prior to the first cut harvest of the reclaimed fields. Irrigation in the Irrigation Pasture Reference Area was regulated to simulate the same plant application rate and conditions of irrigation in the Irrigation Pasture reclamation areas.

The following revegetation units at New Horizon are included in this Phase II bond release application:

Targeted Post-Mine Land Use	Units	Acres	Seeding Year
Dryland Pasture Bond Release Area	DP-10	8.5	2011
	DP-12		2012
	DP-13		2013
	DP-16		2016
	DP-17		2018
Irrigated Pasture Bond Release Area	IP-10	2.9	2016

1.3 Success Standards

According to New Horizon's permit section 2.05.4(2)(e), revegetation success will be assessed against performance standards for 1) vegetative ground cover and 2) sedimentology.

1. Vegetative Ground Cover Standard

For Dryland Pasture and Irrigated Pasture reclamation areas, revegetation will be deemed adequate if average perennial cover at the reclaimed site is equal to or greater than 90% of the perennial cover mean exhibited by the site's respective reference area.

2. Sedimentology

For Dryland Pasture and Irrigated Pasture reclamation areas, demonstration that completed revegetation and grading in the Phase II Bond Release areas have achieved erosion control at least equal to pre-mining levels.

2.0 SAMPLING METHODOLOGY

2.1 Sample Site Selection/Location

A systematic procedure for sample location in the reclaimed and reference units occurred in the following stepwise manner. First, a fixed point of reference was selected for the unit to facilitate location of the systematic grid in the field. Second, a systematic grid of appropriate dimensions was selected to provide a reasonable number of coordinate intersections (e.g., 30) that could then be used for the set of sample sites. Third, a scaled representation of the grid was overlain on a computer-generated map of the target unit. Fourth, the initial placement of this grid was implemented by selection of two random numbers (an X and Y distance) used for locating the first coordinate from the fixed point of reference, thereby making the effort unbiased. Fifth, where an excess number of potential sample points (grid intersections) were indicated by overlain maps, the excess points were randomly chosen for elimination. (If later determined that additional samples would be needed, the eliminated potential sample sites would be added back in reverse order until enough samples could be collected.) Sixth, utilizing a GPS, the sample points were located in the field.

Once a selected grid point was located in the field, ground cover sampling transects were always oriented in the direction of the next site to be physically sampled to further limit any potential bias while facilitating sampling efficiency. This orientation protocol is shown on Figure 1. Depending on logistics, timing, and access points to the target sampling area, the field crew may or may not collect data from sampling points in chronological order. However, orientation protocol was always maintained (i.e., in the direction of the next point to be physically sampled). If the boundary of an area or permanent feature within the area was encountered before reaching the full length of a transect, the orientation of the transect was turned 90° in the appropriate direction so the transect could be completed. In this manner, boundary transects were retained entirely within the target unit by “bouncing” off the boundaries. The orientation protocol dramatically reduces the chances of this happening.

2.2 Determination of Ground Cover

Ground cover at each sample point was evaluated in accordance with Rule 4.15.11(1)(a)(i) utilizing the point-intercept methodology as illustrated on Figure 1. Ground cover transects were implemented at every sample point in the Phase II Areas and the reference areas for the 2021 evaluation efforts. As indicated on this figure, Cedar Creek utilizes state-of-the-art instrumentation it has pioneered to facilitate much more rapid and accurate collection of data. At each sampling location, a transect of 10 meters length was extended in the direction of the next sampling location. At each one-meter interval along the transect, a "laser point bar" was situated parallel to, and approximately 4.5 to 5.0 feet vertically above the ground surface. The laser point bar activates a battery of 10 low-energy specialized lasers situated along the bar at 10-centimeter intervals. Each of the narrowly focused (0.02-inch diameter) laser beams (Figure 1) are oriented to land along the transect and each intercept (hit) is recorded. At each meter, a set of 10 readings was taken specifically to record hits on vegetation (by species), litter (including standing dead), rock (inorganic material >2mm), or bare soil. In this manner, a total of 100 intercepts per transect were recorded resulting in 1 percent cover per intercept. This methodology and instrumentation facilitate the collection of the most unbiased, repeatable, and precise ground cover data possible. To facilitate diversity calculations, second hits were recorded when an overstory shrub stratum was present. However, these second hits were not included in the determination of ground cover. Plant material produced in the 2021 growing season which was still attached to the plant was considered as living plant material whereas all plant material produced in prior years, which was dead, or which had fallen to the ground was considered to be litter.

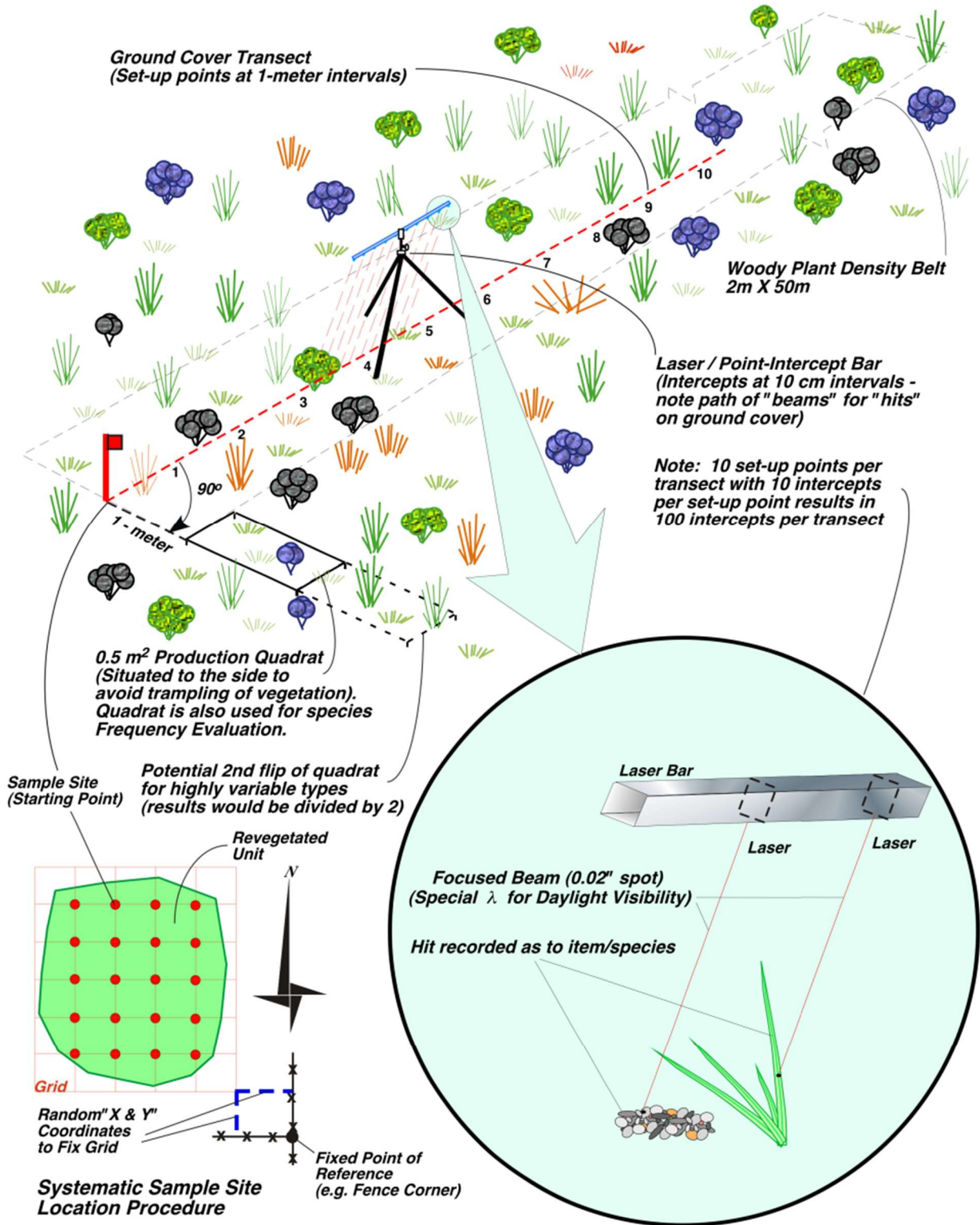


Figure 1
Sampling Procedure at a Systematic Sample Site Location

2.3 Sample Adequacy Determination

Sampling within each unit (Reference Area or Phase II Bond Release areas) was conducted to a minimum of 15 samples. From these preliminary efforts, sample means and standard deviations for total non-overlapping vegetation ground cover were calculated. The Cochran formula (below) for determining sample adequacy was used to calculate $n_{\min}$, whereby the population is estimated to within 10% of the true mean (μ) with 90% confidence.

When the inequality ($n_{\min} \leq n$) is true, sampling is deemed adequate; and $n_{\min}$ is determined as follows:

$$n_{\min} = (t^2 s^2) / (0.1 \bar{x})^2$$

where: n = the number of actual samples collected;

t = the value from the one-tailed t distribution for 90% confidence with $n-1$ degrees of freedom;

s^2 = the variance of the estimate as calculated from the initial samples;

$\bar{x}$ = the mean of the estimate as calculated from the initial samples.

If the initial samples do not provide a suitable estimate of the mean (i.e., the inequality is false), a reverse null success evaluation which does not require adequacy would be employed (Rule 4.15.11 (2)(c)).

2.4 Vegetation Success Evaluation

Success evaluations involve a direct comparison and, where necessary, statistical testing of the ground cover parameter. In the case of ground cover, comparisons are made against reference area data of the same year.

2.5 Sedimentology Evaluation

The purpose of the sedimentology evaluation is to demonstrate that the completed revegetation and grading in the Phase II Bond Release Areas has achieved erosion control at least equal to pre-mining levels as required in Rule 4.15.1 (2) (b) and suspended solids delivered to streamflow outside the permit area will not exceed pre-mining levels as required under Rule 3.03.1 (3) (b). The methodology used is the Revised Universal Soil Loss Equation (RUSLE) using site-specific soil and vegetation data along with slope measurements comparing the Bond Release Area and associated reference areas.

RUSLE was used to calculate predicted annual sediment erosion in tons/acre/year based on the equation:

$$A \text{ (soil loss in tons/acre/year)} = R \bullet K \bullet L \bullet S \bullet C \bullet P$$

Where:

A = predicted erosion in tons/acre/year
R = erosivity index of local rainfall
K = soil erodibility factor
LS = length/slope factor
C = vegetative cover factor
P = management practice factor

Representative slopes for Phase II Bond Release Areas and associated reference areas were selected to calculate predicted soil loss in in tons/acre/year. For this analysis, no adjustment was made for sediment delivery ratio, rather it has been conservatively assumed that all soil eroded off the natural surface or the reclaimed mine areas would eventually report to receiving streams even though it is likely that some sediment will become trapped on site before reaching a stream. The following discussion provides the basis for selection of each factor.

Erosivity Index R

This factor is mapped by USDA NRCS, it represents a combination of the rainfall intensity and duration which are recognized as major factors in dislodging soil particles. The value for the New Horizon Mine area is 17.

Soil Erodibility Factor K

This is an empirical factor with values published by USDA NRCS for mapped soils throughout the United States. The Soil Survey of San Miguel Area, Colorado, Parts of Dolores, Montrose, and San Miguel Counties shows the following mapped soils in the Phase II Bond Release Areas. The K Factor for pre-mining and post-mining condition was determined using the soil survey.

K Factor for New Horizon II Mine					
Dryland Pasture			Irrigated Pasture		
Soil	Symbol	K Factor	Soil	Symbol	K Factor
Pinon-Progreso loams	77	0.32	Pinon-Ustic Torriorthents	78	0.32
Progreso loam	81	0.32			
Progreso loam	82	0.32			
Average		0.32	Average		0.32

Length Slope Factor LS

Representative slope lines were draped onto the pre-mining and post-mining topography in AutoCAD to provide slope lengths and gradients (Map 1). The table below presents the LS Factors calculated for each slope using RUSLE 1.06c.

LS Factor for New Horizon II Mine				
	Dryland Pasture		Irrigated Pasture	
	Pre-Mining	Post-Mining	Pre-Mining	Post-Mining
Gradient (%)	3.6	5.2	3.2	4.3
Length (ft)	96	96	234	234
LS-Factor	0.494	0.668	0.202	0.489

Vegetative Cover Factor C

Data collected from reference areas (which represent pre-mining conditions) and Phase II evaluations (post-mining) were used to determine C Factors. The table below presents the C Factors calculated using RUSLE 1.06c for each vegetation community and timeframe along with the inputs used to derive those results.

C Factor for New Horizon II Mine				
Area Parameter	Dryland Pasture		Irrigated Pasture	
	Pre-Mining (Ref Area)	Post-Mining (Revegetation)	Pre-Mining (Ref Area)	Post-Mining (Revegetation)
Canopy Cover (%)	15.73	18.17	82.73	81.13
Rock Cover (%)	26.73	3.08	0.00	0.13
Litter Cover (%)	27.53	45.42	13.87	5.13
Fall Height (ft)	0.5	0.5	0.5	0.5
Effective Root Mass (lbs/ac)	472	545	2482	2434
Roughness (Index)	0.8	1.1	0.8	1.1
Land Use (Index)	4	4	4	4
C-Factor	0.0614	0.0562	0.0190	0.0168

Conservation Practice Factor P

This factor quantifies conservation practices employed at New Horizon. A default value of 1.0 was used pre-mining conditions and 0.50 was used on post-mining sites, where contouring occurs.

3.0 RESULTS

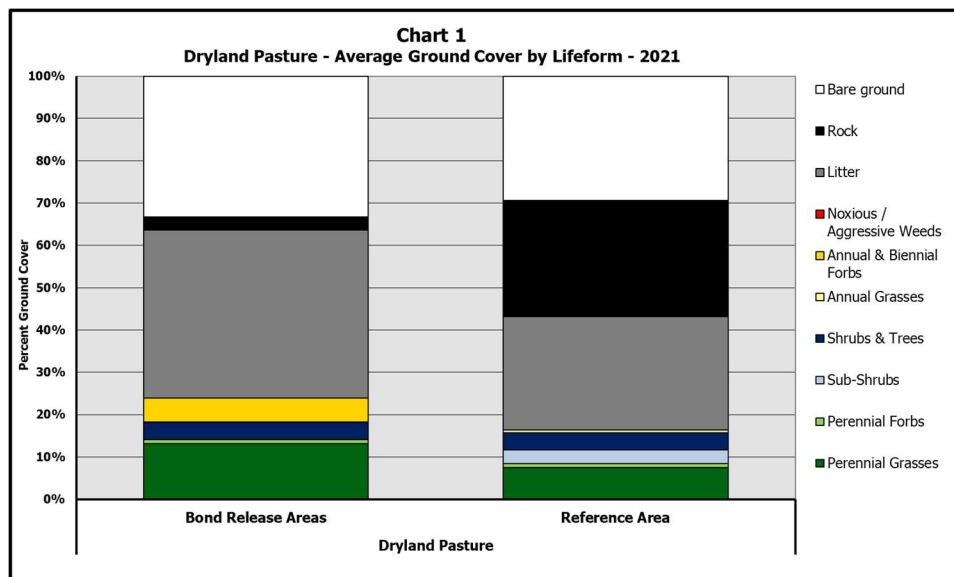
3.1 Dryland Pasture – Vegetation Results

3.1.1 Dryland Pasture Phase II Bond Release Area

A total of 10 plant species were encountered within the Dryland Pasture Phase II Bond Release areas evaluated in 2021. Species consisted of 4 grass taxa, 5 forbs, 0 sub-shrubs, and 1 shrub, succulent, or tree (Table 1). Ground cover in the Dryland Pasture Phase II Bond Release areas (Chart 1 and Table 1) consisted of 23.88% live vegetation, 3.08% rock, 39.71% litter, and bare ground exposure of 33.33%. Perennial cover across the unit averaged 18.17%, no noxious weed cover was encountered. The dominant taxon was Russian wildrye (*Elymus junceus*) with 11.83% average cover.

3.1.2 Old Peabody Sage Reference Area

A total of 15 plant species were encountered within the Old Peabody Sagebrush Reference Area evaluated in 2021. Species consisted of 7 grass taxa, 2 forb, 1 sub-shrub and 5 shrubs, succulents, or trees (Table 1). Ground cover in the Old Peabody Sage Reference Area (Chart 1 and Table 1) consisted of 16.40% live vegetation, 26.73% rock, 27.53% litter, and bare ground exposure of 29.33%. Perennial cover across the unit averaged 15.73%, no noxious weed cover was encountered. Dominant taxa were broom snakeweed (*Gutierrezia sarothrae*), needle and thread (*Hesperostipa comata*), big sagebrush (*Artemisia tridentata*), and James' Galleta (*Hilaria jamesii*) with 3.27%, 2.53%, 2.40%, and 2.33% average cover, respectively.



3.2 Dryland Pasture – Sedimentology Results

The table below presents the predicted soil loss in tons/acre/year on a representative slope from the Dryland Pasture Phase II Bond Release Area for pre-mining and post-mining evaluations. The pre-mining representative slope exhibited 0.165 tons/acre/year of predicted soil loss. In comparison, the post-mining representative slope exhibited 0.102 tons/acre/year of predicted soil loss.

A (soil loss in tons/acre/year) for Dryland Pasture		
Parameter	Pre-Mining	Post-Mining
R - Factor	17	17
K - Factor	0.320	0.320
LS - Factor	0.494	0.668
C - Factor	0.0614	0.0562
P - Factor	1.000	0.500
A (soil loss in tons /acre/year)	0.165	0.102

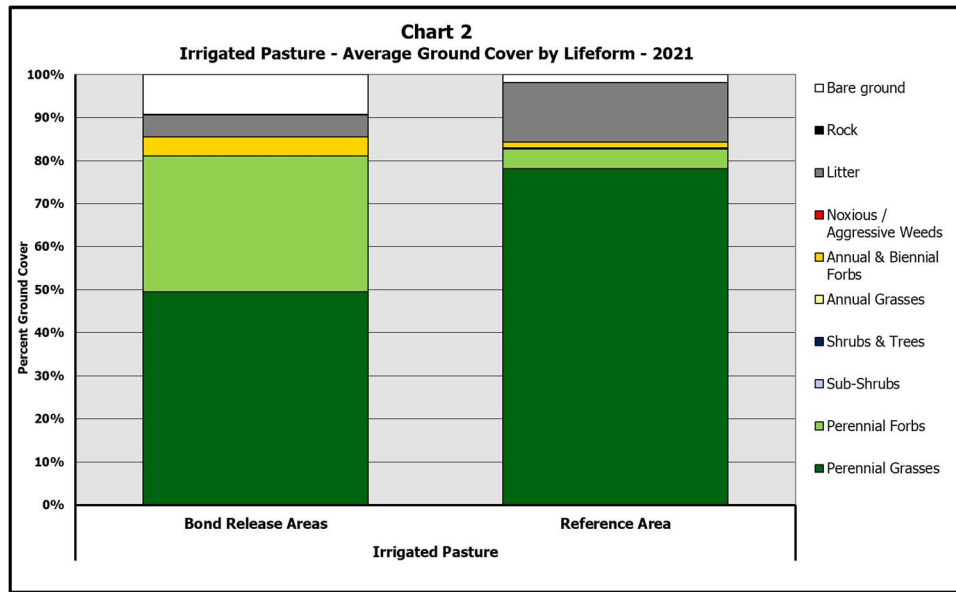
3.3 Irrigated Pasture – Vegetation Results

3.3.1 Irrigated Pasture Phase II Bond Release Area

A total of 22 plant species were encountered within the Irrigated Pasture Phase II Bond Release areas evaluated in 2021. Species consisted of 10 grass taxa, 12 forbs, 0 sub-shrubs, and 0 shrubs, succulents, or trees (Table 1). Ground cover in the Irrigated Pasture Phase II Bond Release areas (Chart 2 and Table 1) consisted of 85.47% live vegetation, 0.13% rock, 5.13% litter, and bare ground exposure of 9.27%. Perennial cover across the unit averaged 81.13%, no noxious weed cover was encountered. Dominant taxa were Western wheatgrass (*Agropyron smithii*), alfalfa (*Medicago sativa*), Russian wildrye, and common dandelion (*Taraxacum officinale*) with 19.33%, 16.20%, 11.53%, and 10.87% average cover, respectively.

3.3.2 Irrigated Pasture Reference Area

A total of 26 plant species were encountered within the Irrigated Pasture Reference Area evaluated in 2021. Species consisted of 15 grass taxa, 11 forbs, 0 sub-shrubs & succulents and 0 shrubs & trees (Table 1). Ground cover in the Irrigated Pasture Reference Area (Chart 2 and Table 1) consisted of 84.33% live vegetation, 0.00% rock, 13.87% litter, and bare ground exposure of 1.80%. Perennial cover across the unit averaged 82.73%, no noxious weed cover was encountered. Dominant taxa were tall fescue (*Festuca arundinacea*), clustered field sedge (*Carex praegracilis*), and smooth brome (*Bromus inermis*) with 33.33%, 12.40%, and 11.20% average cover, respectively.



3.4 Irrigated Pasture – Sedimentology Results

The table below presents the predicted soil loss in tons/acre/year on a representative slope from the Irrigated Pasture Phase II Bond Release Area for pre-mining and post-mining evaluations. The pre-mining representative slope exhibited 0.044 tons/acre/year of predicted soil loss. In comparison, the post-mining representative slope exhibited 0.026 tons/acre/year of predicted soil loss.

A (soil loss in tons/acre/year) for Irrigated Pasture		
Parameter	Pre-Mining	Post-Mining
R - Factor	17	17
K - Factor	0.320	0.320
LS - Factor	0.423	0.572
C - Factor	0.0190	0.0168
P - Factor	1.000	0.500
A (soil loss in tons /acre/year)	0.044	0.026

Table 1 New Horizon - Vegetation Cover - 2021					
Phase II Average Cover Summary					
Post-Mining Vegetation/Land Use Type -->		Dryland Pasture		Irrigated Pasture	
Unit -->		Bond Release	Reference Area	Bond Release	Reference Area
Grasses and Grass-like					
N P	<i>Agropyron cristatum</i>	Crested Wheatgrass	1.25	-	0.07
N P	<i>Agropyron smithii</i>	Western Wheatgrass	0.08	-	3.00
N P	<i>Agrostis scabra</i>	Rough Bentgrass	-	-	0.67
N P	<i>Aristida purpurea</i>	Purple Threeawn	-	0.13	-
N P	<i>Bouteloua gracilis</i>	Blue Grama	-	2.13	-
I P	<i>Bromus biebersteinii</i>	Meadow Brome	-	-	3.00
I P	<i>Bromus inermis</i>	Smooth Brome	-	-	-
I A	<i>Bromus tectorum</i>	Cheatgrass	-	0.60	-
N P	<i>Carex nebrascensis</i>	Nebraska Sedge	-	-	2.33
N P	<i>Carex praegracilis</i>	Clustered Field Sedge	-	-	12.40
I P	<i>Dactylis glomerata</i>	Orchardgrass	-	-	0.33
N P	<i>Eleocharis sp</i>	Spikerush	-	-	0.13
N P	<i>Elyonurus sp</i>	Balsamscale Grass	-	-	0.07
N P	<i>Elymus elymoides</i>	Squirreltail	-	-	0.07
I P	<i>Elymus junceus</i>	Russian Wildrye	11.83	-	11.53
I P	<i>Festuca arundinacea</i>	Tall Fescue	-	-	4.00
N P	<i>Hesperostipa comata</i>	Needle and Thread	-	2.53	-
N P	<i>Hilaria jamesii</i>	James' Galleta	-	2.33	-
N P	<i>Juncus arcticus</i>	Mountain Rush	-	-	4.73
N P	<i>Oryzopsis hymenoides</i>	Indian Ricegrass	-	0.27	-
I P	<i>Phleum pratense</i>	Timothy	-	-	3.33
I P	<i>Poa compressa</i>	Canada Bluegrass	-	-	0.93
N P	<i>Poa pratensis</i>	Kentucky Bluegrass	-	-	0.40
N P	<i>Sporobolus cryptandrus</i>	Sand Dropseed	-	0.07	-
I A	<i>Triticum aestivum</i>	Common Wheat	0.08	-	-
Forbs					
I P	<i>Bassia prostrata</i>	Forage Kochia	0.75	-	-
I A	<i>Bassia scoparia</i>	Burningbush	4.08	-	0.60
I P	<i>Convolvulus arvensis</i>	Field Bindweed	-	-	0.27
I B	<i>Erodium cicutarium</i>	Redstem Stork's Bill	-	-	0.07
N B	<i>Erysimum asperum</i>	Western Wallflower	0.04	-	-
N B	<i>Grindelia squarrosa</i>	Curlycup Gumweed	-	-	1.13
I A	<i>Lappula redowski</i>	Stickseed	-	0.07	-
I P	<i>Lotus corniculatus</i>	Bird's-foot Trefoil	-	-	1.40
I P	<i>Medicago lupulina</i>	Black Medick	-	-	0.87
I P	<i>Medicago sativa</i>	Alfalfa	0.21	-	16.20
N A	<i>Plantago elongata</i>	Prairie Plantain	-	-	2.47
I P	<i>Plantago major</i>	Common Plantain	-	-	0.73
I A	<i>Salsola tragus</i>	Prickly Russian Thistle	1.50	-	0.53
N P	<i>Sphaeralcea coccinea</i>	Scarlet Globemallow	-	0.93	-
I P	<i>Taraxacum officinale</i>	Common Dandelion	-	-	10.87
N P	<i>Trifolium parryi</i>	Parry's Clover	-	-	0.20
I P	<i>Trifolium repens</i>	White Clover	-	-	1.93
I A	UNKNOWN FABACEAE		-	-	0.13
I A	UNKNOWN FORB		-	-	0.07
Sub-Shrubs					
N P	<i>Gutierrezia sarothrae</i>	Broom Snakeweed	-	3.27	-
Shrubs & Trees					
N P	<i>Artemisia tridentata</i>	Big Sagebrush	-	2.40	-
N P	<i>Atriplex canescens</i>	Four-wing Saltbush	4.04	0.80	-
N P	<i>Eriogonum sp.</i>	Buckwheat	-	0.07	-
N P	<i>Juniperus osteosperma</i>	Utah Juniper	-	0.27	-
N P	<i>Opuntia polyacantha</i>	Plains Pricklypear	-	0.53	-
Total Plant Cover			23.88	16.40	85.47
	Rock		3.08	26.73	0.13
	Litter		39.71	27.53	5.13
	Bare ground		33.33	29.33	9.27
Desirable Perennial Cover			18.17	15.73	81.13
Summary by Lifeform:					
Perennial Grasses			13.17	7.47	49.53
Annual Grasses			0.08	0.60	-
Perennial Forbs			0.96	0.93	31.60
Annual & Biennial Forbs			5.63	0.07	4.33
Noxious / Aggressive Weeds			-	-	-
Sub-Shrubs			-	3.27	-
Shrubs & Trees			4.04	4.07	-
Sample Adequacy Calculations					
Mean=		23.88	16.40	85.47	84.33
Variance=		65.59	21.83	152.98	243.52
n=		24	15	15	15
n_{min}=		20.29	14.68	3.79	6.19

N=Native, I=Introduced, X=Noxious A=Annual, B=Biennial, P=Perennial

4.0 SUCCESS COMPARISON

4.1 Dryland Pasture

The demonstration of adequacy and a minimum of 15 transects in each unit (Sample Adequacy presented on Table 1) allow for a direct comparison for perennial cover per Rule 4.15.11 (2)(a). Chart 3 displays the results from ground cover sampling and reveals that the Dryland Pasture Phase II Bond Release areas exceed the reference area comparison with 18.17% perennial cover versus the 14.16% perennial cover standard (90% of 15.73%).

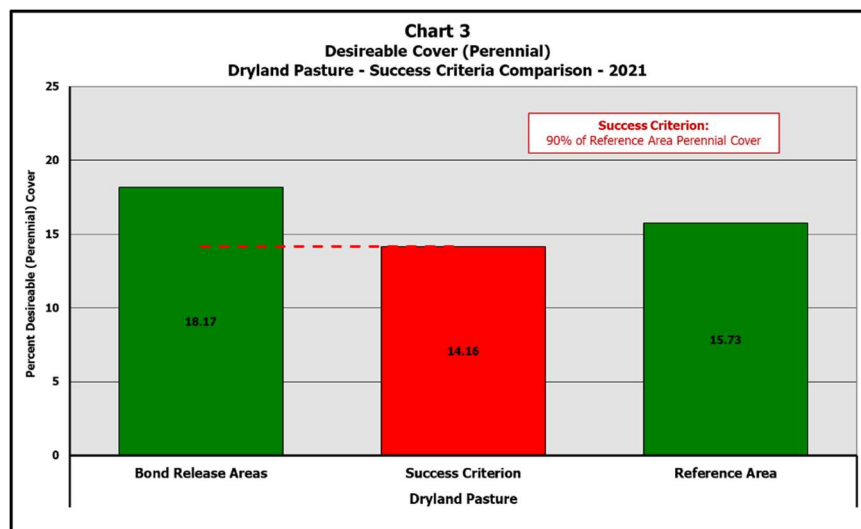
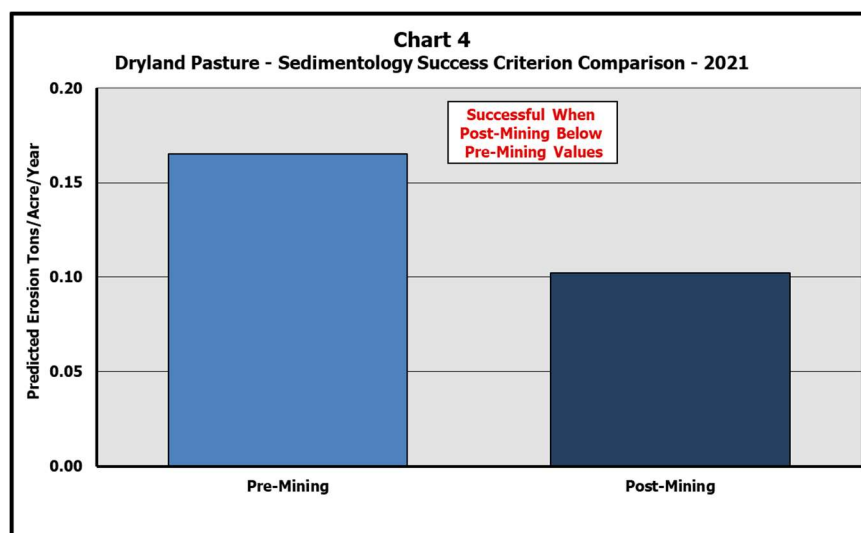


Chart 4 displays the results from sedimentology analysis and reveals that the Dryland Pasture Phase II Bond Release Area post-mining evaluation exhibits less predicted erosion than the pre-mining evaluation with 0.165 tons/acre/year versus 0.102 tons/acre/year.



4.2 Irrigated Pasture

The demonstration of adequacy and a minimum of 15 transects in each unit (Sample Adequacy presented on Table 1) allow for a direct comparison for perennial cover per Rule 4.15.11 (2)(a). Chart 5 displays the results from ground cover sampling and reveals that the Irrigated Pasture Phase II Bond Release areas exceed the reference area comparison with 81.13% perennial cover versus the 74.46% perennial cover standard (90% of 82.73%).

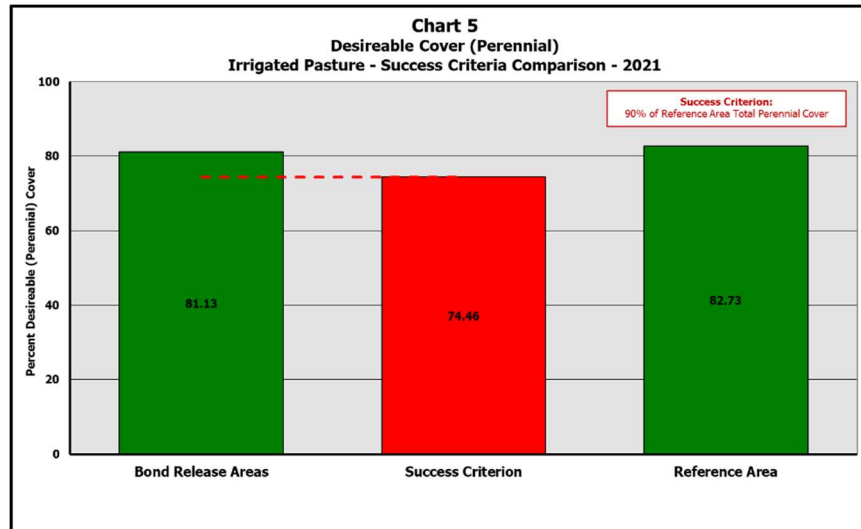
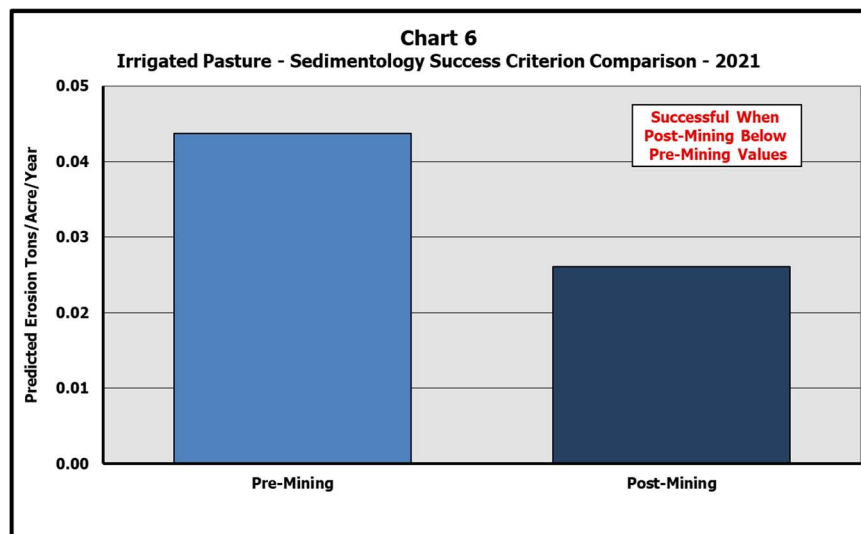


Chart 6 displays the results from sedimentology analysis, and reveals that the Irrigated Pasture Phase II Bond Release Area post-mining evaluation exhibits less predicted erosion than the pre-mining evaluation with 0.044 tons/acre/year versus 0.026 tons/acre/year.



5.0 REFERENCES

New Horizon 2 Mine. Permit Number C-1987-008. Section 2.05.4.

Weber, W.A. and Wittman, R.C., 1996. Colorado Flora: Western Slope - Revised Edition. University Press of Colorado. 496 p

Appendix A

Raw Data Tables

Table A1 New Horizon - Vegetation Cover - 2021																												
Dryland Pasture Phase II																												
Percent Ground Cover Based on Point-Intercept Sampling																												
Transect No.——>		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Average Cover		
Grasses and Grass-like																												
N	P	Agropyron cristatum	Crested Wheatgrass													1	1					1	11	7	9	1.25		
N	P	Agropyron smithii	Western Wheatgrass													1	1									0.08		
I	P	Elymus junceus	Russian Wildrye	29	17	18	10	10	2	9	3	4	10		17	13	5	10	20	20	14	22	25	12	2	3	9	11.83
I	A	Triticum aestivum	Common Wheat								2																0.08	
Forbs																												
I	P	Bassia prostrata	Forage Kochia											4	2					12							0.75	
I	A	Bassia scoparia	Burningbush				14	11	8	2	21	10	25	1		5				1							4.08	
N	B	Erysimum asperum	Western Wallflower													1											0.04	
I	P	Medicago sativa	Alfalfa														2								2	1	0.21	
I	A	Salsola tragus	Prickly Russian Thistle				5	7	6	3	2	8	3			2											1.50	
Shrubs & Trees																												
N	P	Atriplex canescens	Four-wing Saltbush	13	4	19	17		4	4	9	6	7		2	2			1	9							4.04	
																									Mean			
Total Plant Cover				42	21	37	27	29	24	27	19	33	35	28	24	17	13	14	23	29	27	22	25	13	13	12	19	23.88
Rock				2	2	2	4	42	2	1	4	2	1	2	0	0	1	0	6	3	0	0	0	0	0	0	0	3.08
Litter				26	49	44	53	2	47	16	38	28	45	54	45	52	51	37	41	41	34	28	58	33	49	46	36	39.71
Bare ground				30	28	17	16	27	27	56	39	37	19	16	31	31	35	49	30	27	39	50	17	54	38	42	45	33.33
Total Perennial Cover (Excluding Noxious Weeds)				42	21	37	27	10	6	13	12	10	17	0	23	17	5	14	23	29	26	22	25	13	13	12	19	18.17
Sample Adequacy Calculations				Plant Cover Mean = 23.88														t= 1.33				n = 24						
				Variance = 65.59														n _{min} = 20.29										

N=Native, I=Introduced, X=Noxious A=Annual, B=Biennial, P=Perennial

Table A2 New Horizon North - Vegetation Cover - 2021																			
Dryland Pasture Reference Area																			
Percent Ground Cover Based on Point-Intercept Sampling																			
Transect No.——>			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Average Cover	
Grasses and Grass-likes																			
N	P	<i>Aristida purpurea</i>	Purple Threeawn					3	5	2	3	8	1	2	3	2	1		0.13
N	P	<i>Bouteloua gracilis</i>	Blue Grama				3	5	2	3	8	1	4	3	2	1		2.13	
I	A	<i>Bromus tectorum</i>	Cheatgrass						1								8	0.60	
N	P	<i>Hesperostipa comata</i>	Needle and Thread				3	3				8	8	8	8			2.53	
N	P	<i>Hilaria jamesii</i>	James' Galleta	8	2	6	2	8	1	2	1					4	1	2.33	
N	P	<i>Oryzopsis hymenoides</i>	Indian Ricegrass	1	1					1	1							0.27	
N	P	<i>Sporobolus cryptandrus</i>	Sand Dropseed			1												0.07	
Forbs																			
I	A	<i>Lappula redowski</i>	Stickseed														1	0.07	
N	P	<i>Sphaeralcea coccinea</i>	Scarlet Globemallow					2	2	3	1	2			3	1		0.93	
Sub-Shrubs																			
N	P	<i>Gutierrezia sarothrae</i>	Broom Snakeweed	4	2	2	10	1	2	4	4	8	1	5	2		1	3	3.27
Shrubs & Trees																			
N	P	<i>Artemisia tridentata</i>	Big Sagebrush	7			1		2	4	1	2	4			8	7		2.40
N	P	<i>Atriplex canescens</i>	Four-wing Saltbush														7	5	0.80
N	P	<i>Eriogonum sp.</i>	Buckwheat										1						0.07
N	P	<i>Juniperus osteosperma</i>	Utah Juniper															4	0.27
N	P	<i>Opuntia polyacantha</i>	Plains Pricklypear					1			3				4				0.53
																		Mean	
Total Plant Cover				20	5	9	13	18	15	17	14	20	15	19	20	19	20	22	16.40
Rock				54	75	49	37	48	10	4	34	17	23	16	2	0	19	13	26.73
Litter				17	10	29	22	27	33	38	29	39	14	26	40	36	21	32	27.53
Bare ground				9	10	13	28	7	42	41	23	24	48	39	38	45	40	33	29.33
Total Perennial Cover (Excluding Noxious Weeds)				20	5	9	13	18	15	16	14	20	15	19	20	19	20	13	15.73
Sample Adequacy Calculations				Plant Cover Mean = 16.40 t= 1.35 n = 15 Variance = 21.83 n _{min} = 14.68															

N=Native, I=Introduced, X=Noxious A=Annual, B=Biennial, P=Perennial

Table A3 New Horizon - Vegetation Cover - 2021																			
Irrigated Pasture Phase II																			
Percent Ground Cover Based on Point-Intercept Sampling																			
Transect No.——>			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Average Cover	
Grasses and Grass-like																			
N	P	Agropyron cristatum	Crested Wheatgrass	10	1	8			14		2	20	8	6		15	18		6.80
N	P	Agropyron smithii	Western Wheatgrass	15	19	8			33	58	24	15	5	31	24	6	28	24	19.33
N	P	Agrostis scabra	Rough Bentgrass											6	4				0.67
I	P	Bromus biebersteinii	Meadow Brome	7	8			8	1	3		2	4	2	9		1		3.00
I	P	Dactylis glomerata	Orchardgrass												5				0.33
N	P	Eleocharis sp	Spikerush						2										0.13
I	P	Elymus junceus	Russian Wildrye	12		47		28	13		22	30	10				11		11.53
I	P	Festuca arundinacea	Tall Fescue					5	20	1		1		14	2	17			4.00
I	P	Phleum pratense	Timothy							2				7	41				3.33
N	P	Poa pratensis	Kentucky Bluegrass		3									1	2				0.40
Forbs																			
I	A	Bassia scoparia	Burningbush			9										2			0.60
I	P	Convolvulus arvensis	Field Bindweed			1	1									2			0.27
I	B	Erodium cicutarium	Redstem Stork's Bill									1							0.07
N	B	Grindelia squarrosa	Curlycup Gumweed								17								1.13
I	P	Lotus corniculatus	Bird's-foot Trefoil	3						2			9		5	2			1.40
I	P	Medicago sativa	Alfalfa	32	5	15	38	61	2	9	9	34	6	2	13	4	13		16.20
N	A	Plantago elongata	Prairie Plantain		12		1		4	3	8	2		1	2	4			2.47
I	P	Plantago major	Common Plantain			2							5	2			2		0.73
I	P	Taraxacum officinale	Common Dandelion	6	35	1			10	4	43	12	2	3	8	9	21	9	10.87
N	P	Trifolium parryi	Parry's Clover					3											0.20
I	P	Trifolium repens	White Clover		7									22					1.93
I	A	UNKNOWN FORB			1														0.07
																		Mean	
Total Plant Cover				85	91	82	48	90	92	88	94	97	83	74	89	98	93	78	85.47
Rock							1							1					0.13
Litter				8	8	1			6	11	6	3	2	12	4	2	6	8	5.13
Bare ground				7	1	17	51	10	2	1			15	14	6		1	14	9.27
Total Perennial Cover (Excluding Noxious Weeds)				85	78	82	38	90	88	85	86	78	82	74	88	96	89	78	81.13
Sample Adequacy Calculations				Plant Cover Mean = 85.47 t= 1.35 n = 15 Variance = 152.98 n _{min} = 3.79															

N=Native, I=Introduced, X=Noxious A=Annual, B=Biennial, P=Perennial

Table A4 New Horizon - Vegetation Cover - 2021																	
Irrigated Pasture Reference Area																	
Percent Ground Cover Based on Point-Intercept Sampling																	
Transect No. —>		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Average Cover
Grasses and Grass-like																	
N P	<i>Agropyron cristatum</i>								1								0.07
N P	<i>Agropyron smithii</i>	2	1		12	8	4		13	3				2			3.00
I P	<i>Bromus inermis</i>		8					21	47				60	2	28	2	11.20
I A	<i>Bromus tectorum</i>				1		1	1								1	0.27
N P	<i>Carex nebrascensis</i>			6							29						2.33
N P	<i>Carex praegracilis</i>	51	15	32	8	11				19	9	40		1			12.40
I P	<i>Dactylis glomerata</i>				3							1		6	14		1.60
N P	<i>Eleocharis sp</i>			7							1	3					0.73
N P	<i>Elionurus sp</i>				1												0.07
N P	<i>Elymus elymoides</i>															1	0.07
I P	<i>Festuca arundinacea</i>	26	55	29	26	58	19	38		32	61		23	60	30	43	33.33
N P	<i>Juncus arcticus</i>		3	4			14			24		26					4.73
I P	<i>Phleum pratense</i>		5	9		4				16		23					3.80
I P	<i>Poa compressa</i>	11						2								1	0.93
N P	<i>Poa pratensis</i>	7		3	10	13	15		1				4	5			3.87
Forbs																	
I P	<i>Convolvulus arvensis</i>				3				1								0.27
I P	<i>Lotus corniculatus</i>				3			2									0.33
I P	<i>Medicago lupulina</i>													8	5		0.87
I P	<i>Medicago sativa</i>				7				5					1	12		1.67
N A	<i>Plantago elongata</i>							4	4							1	0.60
I A	<i>Salsola tragus</i>															8	0.53
I P	<i>Taraxacum officinale</i>	1	1		1							1		2			0.40
N P	<i>Trifolium parryi</i>			6		2								5			0.87
I P	<i>Trifolium repens</i>			3													0.20
I A	UNKNOWN FABACEAE													2			0.13
I A	UNKNOWN FORB									1							0.07
																	Mean
Total Plant Cover		98	88	99	75	96	53	68	71	96	100	94	87	94	89	57	84.33
	Rock																0.00
	Litter	1	12	1	22	4	35	28	28	4		6	13	4	10	40	13.87
	Bare ground	1			3		12	4	1					2	1	3	1.80
Total Perennial Cover (Excluding Noxious Weeds)		98	88	99	74	96	52	63	67	95	100	94	87	92	89	47	82.73
Sample Adequacy Calculations		Plant Cover Mean = 84.33 t= 1.35 n = 15 Variance = 243.52 n _{min} = 6.19															

N=Native, I=Introduced, X=Noxious A=Annual, B=Biennial, P=Perennial