

AN APPLICATION FOR A PERMIT TO CONDUCT COAL SURFACE MINING AND RECLAMATION ACTIVITIES AT THE TRAPPER MINE IN MOFFAT COUNTY, COLORADO

**SUBMITTED BY
TRAPPER MINING INC.
C-1981-010**

Submitted:	January 1981
Renewal:	February 1987
Renewal:	February 1993
Renewal:	January 1998
Renewal:	January 2003
Renewal:	July 2008
Renewal:	July 2013
Renewal:	November 2017

CONTENTS:

Appendix W 2021 Annual Report

VOLUME LI



Colorado Division of Reclamation, Mining and Safety

Annual Reclamation Report for Calendar Year – 2021

Trapper Mine	C-1981-010	Trapper Mining Inc.
Mine Name	Permit Number	Permittee
PO Box 187, Craig, CO 81626		
Address		

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

Land Category	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Acreage in Active Mining Areas ¹	1,317.1	32.0	0.0	=	1,349.1

Land Category	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Acres Disturbed ²	6,845.8	33.6	5.6	=	6,873.8
Acres Backfilled and Graded	4,754.2	0.0	6.2	=	4,748.0
Acres Topsoiled	4,754.2	0.0	6.2	=	4,748.0

Acreage in Long-term Facilities ³	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Non-Permanent Facilities	679.2	1.6	0.0	=	680.8
Permanent Facilities (permitted)	99.4	0.0	0.0	=	99.4
Totals	778.6			=	780.2

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	868.4	0.0	104.2	=	764.2
10 Years and Greater	3,885.8	104.2	6.2	=	3,983.8
Totals	4,754.2			=	4,748.0

Bond Release	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Phase I Released	4,585.8	0	6.2	=	4,579.6
Phase II Released	4,291.1	0	6.2	=	4,284.9
Phase III Released	3,597.2	0	5.6	=	3,591.6

¹Includes pits, topsoil stripped areas in advance of pits, and spoil not backfilled and graded

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

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

Annual Reclamation Report Instructions

The Annual Reclamation Report (ARR) form has been designed to aid in the tracking of disturbed acres as they progress through the reclamation process. The rows are arranged so that the initial disturbed acres are entered at the top of the page and the acres will progress down through the rows to final bond release at the bottom.

Note: The “Last Year’s Cumulative Total” columns need to have the values entered from the previous year’s ARR “Cumulative Total” columns. This ensures accuracy from year to year.

Land Category –

Acreage in Active Mining Areas – This section applies only to surface mines. It does not apply to underground mines nor to separately-permitted loadouts. Footnote 1 on the ARR form describes Active Mining Areas as pits, topsoil stripped areas in advance of pits and spoil not backfilled and graded.

Land Category –

Acres Disturbed – This is the total number of acres that have been disturbed by surface coal mining and reclamation operations for this permit number, regardless of name changes, bond releases and changes to the permit boundary. The subtraction column is for tracking acres transferred to another permit or corrections associated with record keeping and mapping. Do not subtract acres where Phase III bond release was achieved. A formula is shown in footnote 2 on the ARR form for surface and underground mines that explains how this value is determined.

Acres Backfilled and Graded – This is the total number of acres that have been backfilled and graded to the approved post-mining topography. The subtraction column is for tracking acres transferred to another permit, acres re-disturbed or corrections associated with record keeping and mapping. Do not subtract acres where Phase III bond release was achieved.

Acres Topsoiled – This is the total number of acres that have been topsoiled in advance of seeding with approved permanent seedmixes. Do not enter acres for topsoiled outslopes of pond embankments, topsoiled outslopes of road embankments, or topsoiled outslopes of cut-and-fill facility pads. The subtraction column is for tracking acres transferred to another permit, acres re-disturbed or corrections associated with record keeping and mapping. Do not subtract acres where Phase III bond release was achieved.

Acreage in Long-term Facilities –

Non-Permanent Facilities – This is the total number of acres that have a facility listed in Footnote 3 at the bottom of the ARR form that has not been approved in the permit to remain as permanent.

Permanent Features – This is the total number of acres that have a facility listed in Footnote 3 at the bottom of the ARR form that has been approved in the permit to remain as permanent. If the feature is intended to be permanent but has not been approved as permanent through a permitting action (TR, PR, etc.), then it is not considered permanent.

Acres Seeded –

The acres seeded rows are for permanently seeded acres. Do not enter temporary seeding of topsoil piles, cover crops, embankment stabilization, etc.

Acres that were seeded during the current reporting year are entered in the “9 Years and Less” row.

When a parcel becomes seeded for 10 years or greater, subtract the acres from the “9 Years and Less” row and add it to the “10 Years or Greater” row.

The subtraction column in the “10 Years or Greater” row is for tracking acres transferred to another permit, acres re-disturbed or corrections associated with record keeping and mapping. Do not subtract acres where Phase III bond release was achieved.

Bond Release –

This is the total number of acres that have achieved Phase I, II or III bond release for this permit number, regardless of name changes and changes to the permit boundary.

Acres are added to these categories after DRMS’ proposed decision becomes final (issuance).

The subtraction column is for tracking acres transferred to another permit, acres re-disturbed or corrections associated with record keeping and mapping. Do not subtract acres where Phase III bond release was achieved.

Objective – The “Cumulative Total” value in each of these rows will be the same as the value in “Acres Disturbed – Cumulative Total” when the mine achieves final bond release.

SECTION 1.0

ANNUAL RECLAMATION REPORT



C-1981-010

SECTION 1.0 2021 Annual Reclamation Report

As specified by the revisions (1/3/90) to 2CCR 407-2, 2.04.13, Trapper Mine is submitting an Annual Reclamation Report for the previous calendar year (2021).

Historically, section 3.5.3 of Trapper's mining and reclamation permit required a reclamation map be submitted to the CDRMS annually by March 15. Subsequent to 1988 the map entitled the "Postmine Contour Map" was changed to "Reclamation Map." The reclamation maps developed from aerial photographs taken during the previous fall shows pit advancements, recontoured spoil areas and a historical account of the previously regraded areas for the year.

The 2021 reclamation map is a composite of the aerial photographs taken by drone during 2021, and shows the reclamation performed during 2021 for all areas under bond. Map(s) 1 show the aerial extent and location of disturbed acres, graded acres, topsoiled acres and perennial seeded acres during 2021. It also shows the location, aerial extent and reclamation year of all previously revegetated areas, as well as the actual and projected mature shrub clump establishment areas, topsoil stripping areas and laydown areas for 2021.

1.1 Permittee Identification

The Permittee for this annual reclamation report is:

Trapper Mining Inc.
P.O. Box 187
Craig CO 81626
Permit No. C-1981-010

1.2 Results

Table 1.1 and Map(s) 1 show the 2021 reclamation results. The various reclamation stages are addressed below in separate subsections.

1.2.1 Disturbed Acres

In 2021, Trapper disturbed 33.6 acres in the I Pit, L Pit and N Pit areas. Disturbance consisted of some re-disturbance of Phase III Bond released lands in the former A Pit area for N Pit. The remaining disturbance was in I Pit and east of L Pit. Table 1.2 documents acres re-disturbed and the bond release status of each.

1.2.2 Backfilled and Graded Acres

Trapper did not backfill and grade any acres in 2021 to final contour (AOC).

1.2.3 Topsoiled Acres

Trapper did not re-topsoil any acres in 2021 to final contour (AOC).

1.2.4 Seeded Acres

Trapper did not seed any permanent vegetation mixture acres in 2021 to final contour (AOC).

1.2.5 Cultural Practices

In 2021 Trapper also conducted several other cultural practices. These practices are addressed below.

Drainage Reconstruction

Refer to Section 3.0 of this annual report.

Contour Ditch Construction

During 2021, Trapper did not construct any contour ditches.

Stock Tank Construction

No new Stock Tanks were constructed during the 2021 field season. Refer to Section 6.

Stock Tank Reclamation

No Stock Tanks were reclaimed during the 2021 field season. Refer to Section 6.

Developmental Drill Sites

No developmental drill holes were completed in 2021.

Topsoil Piles

During 2021, Trapper moved the entirety of pile BP-1 and part of pile K2-15 to a new pile, L21-1, west of L-Pit. Trapper also constructed two new topsoil piles, L-21-2 and L-21-3 east of L-Pit stripping areas and a small pile, N21-1 in N-Pit during the 2021 field season. Refer to Section 5.

Sediment Dams

Sediment pond cleaning was conducted on East Pyeatt #1 and #2, and Deal Gulch #1 in 2021.

1.2.6 Previously Revegetated Acres

The locations and acres for all previously revegetated areas, seeded to perennial species, are presented in Map(s) 1. To date, Trapper has revegetated approximately 4,748.0 acres. Of the total revegetated acres, 3,591.6 reclaimed acres have received final phase III bond release. The phase III total includes 5.6 acres of re-disturbance in I and N-Pit during 2021.

Not shown on Map(s) 1 in this annual report are the areas seeded to temporary perennial mixes that will require final reclamation prior to the end of the project (life of mine).

1.2.7 Re-Disturbed Reclamation Acres

The parcel identification and acres re-disturbed due to mining activities for all previously revegetated areas will be documented here. Table 1.2 will show acres re-disturbed and summarize the bond release status of each parcel. N Pit development resulted in 6.2 acres of re-disturbance in 2021.

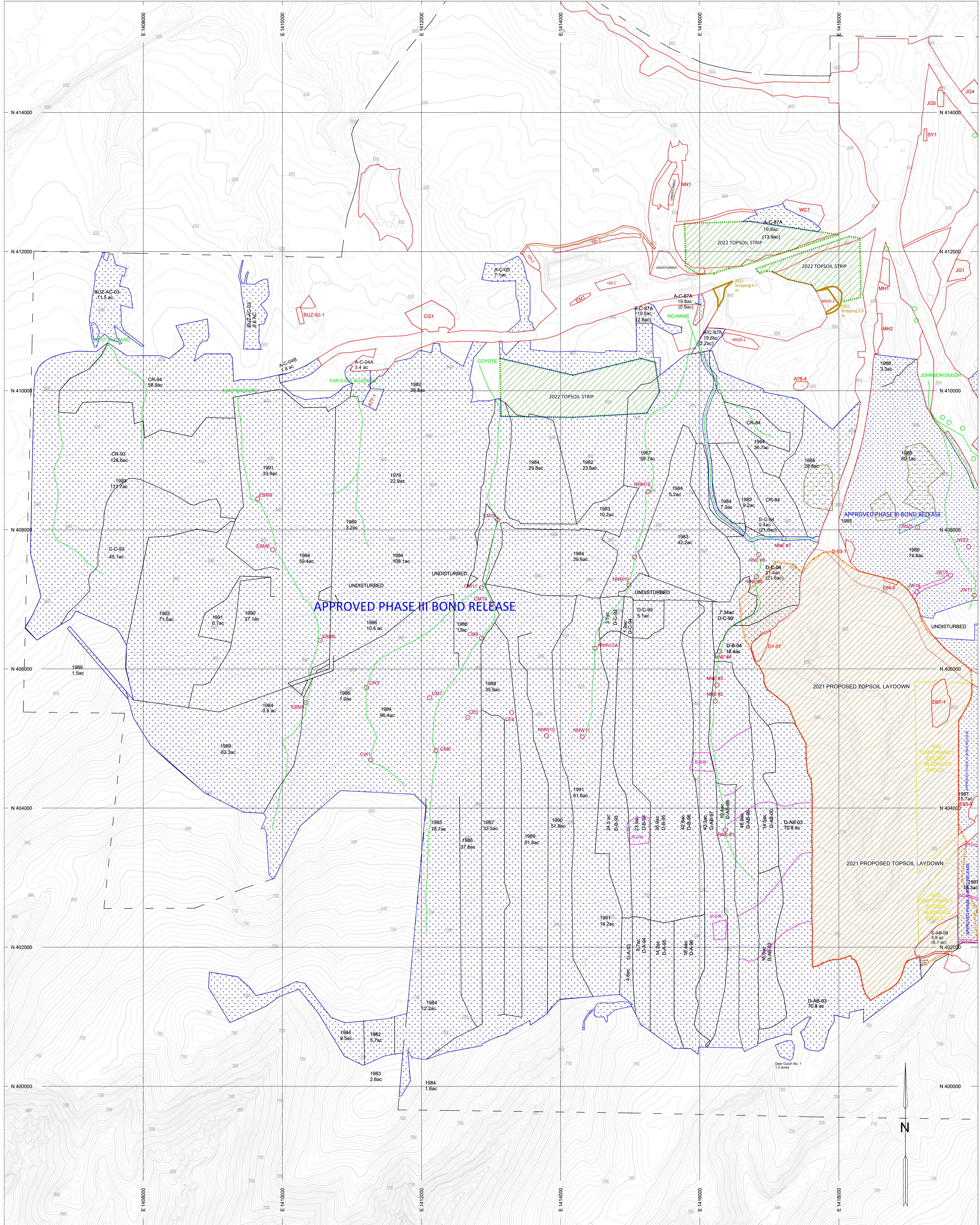
Table 1.1. Reclamation Summary for Trapper Mine (2021).

	Ashmore Pit	Derringer Pit	L Pit	Z Pit	F Pit	N Pit	I Pit	J Pit	Non-pit Areas	Total
<u>New Disturbance Acres</u>										
Topsoil Strip Areas			25.8			6.2		1.6		33.6
Topsoil Pile Areas										
Total	0.0	0.0	25.8	0.0	0.0	6.2	0.0	1.6	0.0	33.6
<u>Backfilled and Graded Areas</u>										
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<u>Topsoil Replacement Areas</u>										
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<u>Vegetated (Seeded) Acres</u>										
Range Sites A&B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Range Site C										
Perennial Haycrop										
Temporary*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* Includes topsoil piles, diversion ditches, sediment ponds, drill pads, drainageways, and other temporarily reclaimed lands.
Disturbance to previously reclaimed parcels.

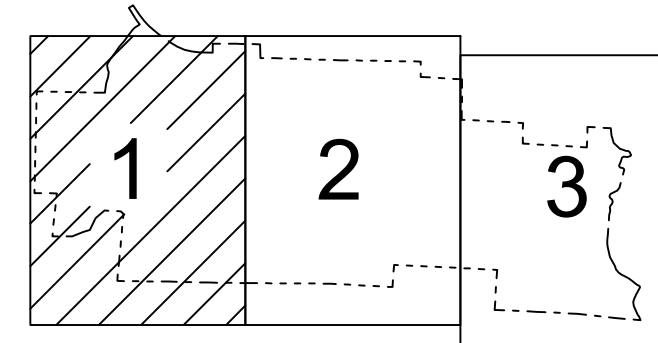
Table 1.2. Re-Disturbed Reclamation Summary for Trapper Mine (2021).

Parcel	Year	Re-Disturbed Acres	Bond Release Status			Yearly Total
			Phase I	Phase II	Phase III	
H-B-94	2001	8.5	8.5	8.5		8.5
A-C-86B	2007	1.6	1.6	1.6	1.6	
A-B-86	2007	4.3	4.3	4.3	4.3	
A-A-00	2007	4.7				
Z-AB-05	2007	2.6				13.2
A-B-98	2008	5.0	5.0			
A-B-00	2008	3.1	3.1	3.1		
A-B-98	2008	0.2	0.2			8.3
Z-AB-05	2009	0.3	0.3			
Z-AB-06	2009	0.1	0.1			
Z-A-07	2009	0.8	0.8			
Z-A-08	2009	0.5				1.7
Z-AB-05	2011	0.9	0.9			0.9
F-AB-04	2012	2.2	2.2	2.2		
F-AB-05	2012	0.6	0.6	0.6		
F-AB-06	2012	1.8	1.8	1.8		
F-AB-07	2012	5.1	5.1			
F-AB-08	2012	0.7	0.7			
F-AB-09	2012	0.4				
F-AB-11	2012	0.7				11.5
A-B-94	2014	0.7	0.7	0.7	0.7	0.7
A-C-95	2019	0.4	0.4	0.4	0.3	
A-B-95	2019	4.0	4.0	4.0	3.9	
A-B-96	2019	13.7	13.7	13.7	13.7	
A-B-97	2019	12.6	12.6	12.6	12.6	
A-B-98	2019	17.0	17.0	17.0	17.0	
A-B-99	2019	26.7	26.7	26.7	26.7	
A-B-00	2019	2.8	2.8	2.8	2.8	77.2
A-C-87A	2020	4.7	4.7	4.7	4.7	
A-B-94	2020	74.0	74.0	74.0	74.0	
A-C-94	2020	2.8	2.8	2.8	2.6	
A-C-95	2020	17.3	17.3	17.3	14.9	
A-B-95	2020	25.3	25.3	25.3	25.1	
A-B-96	2020	5.0	5.0	5.0	5.0	
A-B-97	2020	5.2	5.2	5.2	5.2	
A-B-98	2020	8.2	8.2	8.2	8.2	
A-B-99	2020	16.1	16.1	16.1	16.1	
A-B-00	2020	14.3	14.3	14.3	14.3	
A-B-09	2020	1.4	1.4	1.4		
F-AB-05	2020	0.3	0.3	0.3	0.3	
H-B-98	2020	2.2	2.2	2.2	2.2	
H-C-04	2020	6.1	6.1	6.1	6.1	182.9
A-C-94	2021	0.6	0.6	0.6	0.5	
A-C-95	2021	5.6	5.6	5.6	5.1	6.2
		311.1	302.2	289.1	267.9	Total

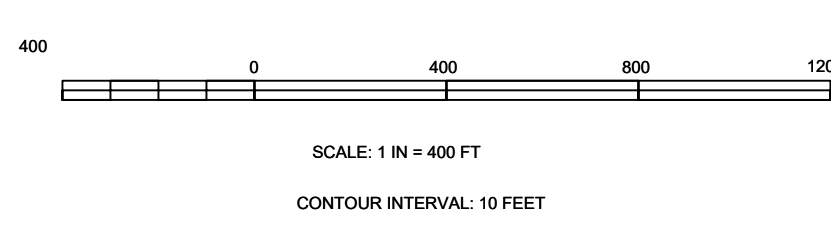


LEGEND

- | | | | |
|-------|--------------------------------------|--|---|
| ----- | PERMIT BOUNDARY | | 2022 PROPOSED TOPSOIL LAYDOWN |
| ===== | HISTORICAL REVEGETATED AREA | | 2022 PROPOSED TOPSOIL STRIP |
| | SHRUB CLUMPPit I/Year Constructed | | APPROVED PHASE III BOND RELEASED BOUNDARY |
| ===== | 2021 FINAL REGRADE AREA | | ACCESS CORRIDORS |
| | 2021 REPOSEOLED AND REVEGETATED AREA | | EXISTING STOCK POND |
| | EXISTING TOPSOIL STOCKPILE | | EXISTING DOZER BASINS |
| | PROPOSED TOPSOIL STOCKPILE | | RECONSTRUCTED DRAINAGES |
| | ASH DUMP STORAGE AREA | | 2021 RECONSTRUCTED DRAINAGES |
| | 2021 TOPSOIL STRIP | | CONTOUR DITCH |



SHEET LOCATION INDEX



Topographic information compiled from aerial photography dated 12/20
AutoCAD file: A:\Projects\GD62021\autocad\2021_topography.dwg

TRAPPER MINING INC.

TRAPPER MINE	CRAIG, CO.
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PERMIT C81-010

PERMIT COSTS

2021 ANNUAL RECLAMATION

REPORT MAP

Sheet 1 of 3

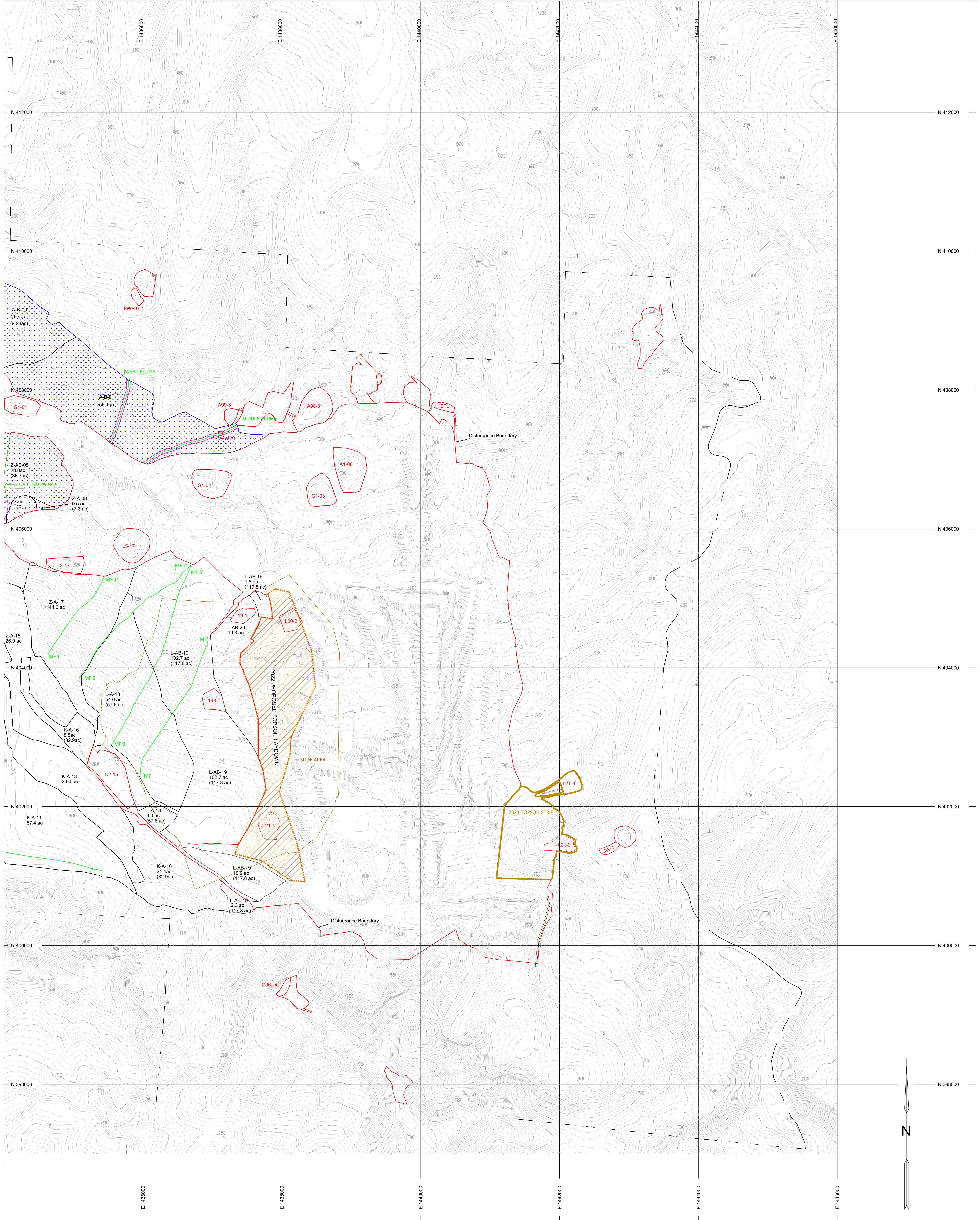
SCALE: 1 in = 400 ft
DESIGNED BY: BDM

DESIGNED BY: BDN
DRAWN BY: CJB

MAP 1

DATE: 2/14/2022	SHEET 1	
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PERMIT BOUNDARY

HISTORICAL REVEGETATED AREA

SHRUB CLUMP/Pit ID/Year Constructed

2021 FINAL REGRADE AREA

2021 RETOPSOILED AND REVEGETATED AREA

EXISTING TOPSOIL STOCKPILE

PROPOSED TOPSOIL STOCKPILE

2021 TOPSOIL STRIP

2022 PROPOSED TOPSOIL LAYDOWN

2022 PROPOSED TOPSOIL STRIP

APPROVED PHASE III BOND RELEASED BOUNDARY

ACCESS CORRIDORS

EXISTING STOCK POND

EXISTING DOZER BASINS

RECONSTRUCTED DRAINAGES

2021 RECONSTRUCTED DRAINAGES

CONTOUR DITCH

1

2

3

SHEET LOCATION INDEX

0

400

800

1200

SCALE: 1 IN = 400 FT
CONTOUR INTERVAL: 10 FEET

Tranographic information compiled from aerial photography dated 12/2021.
AutoCAD file: A:\Projects\082021\Final\082021_Topography.dwg

TRAPPER MINING INC.

TRAPPER MINE

CRAIG, CO.

PERMIT C81-010

2021 ANNUAL RECLAMATION

REPORT MAP

SCALE: 1 in = 400 ft

DESIGNED BY: SCN

DRAWN BY: CJB

DATE: 2/14/2022

Sheet 3 of 3

MAP 1

SHEET 3

N

SECTION 2.0

RESERVED



C-1981-010

SECTION 3.0

DRAINAGEWAY RECONSTRUCTION, IMPROVEMENTS AND REPAIRS



C-1981-010

SECTION 3.0 2021 Drainage Reconstruction, Improvement and Repairs at Trapper Mine

3.1 Drainage Reconstruction 1987-2021

At Trapper Mine, all or portions of nine major drainageways (Coyote, Johnson, Buzzard, No-Name, Oak, Grouse, Horse, Flume and Pyeatt) and their tributaries have been regraded and appropriately treated to reduce the erosion rate and assist in permanent channel stabilization from 1987 through 2021. At the conclusion of the 2021 field season, approximately 141,870 linear feet (26.9 miles) of permanent drainage reconstruction has been completed at Trapper Mine (Map 1). In 2021 – No new drainage reconstruction occurred.

3.2 Drainage Improvements and Repairs

Improvements and repairs were performed to provide benefits to all drainages treated in 1987-2021 as well as portions of undisturbed and disturbed drainage segments. Drainage improvements include dozer basins constructed in newly stripped topsoil areas and on newly regraded spoils. Dozer basins and/or stock ponds were cleaned and repaired in Johnson, West Pyeatt, East Pyeatt, Oak, Middle Flume and East Middle Flume drainages in 2021. Approximately 550 feet of reconstructed drainage in Deal Gulch was repaired in 2021.

3.3 Drainage Reconstruction Design Summary

Design criteria established with PR-07 shall be summarized for each year for the drainages reconstructed on the site. Table 3.1 shows the model inputs for each drainage designed and reconstructed for the reporting year. Map 1 indicates each drainage section reconstructed during the reporting year.

Table 3.1. Drainage Reconstruction Summary for Trapper Mine (2021)

(No Drainage Reconstruction in 2021)

Drainage Model Inputs

Drainage Designation (Map 1)

Total Acreage

Average Curve Number

Average Slope

Total Storage Needed, ac-ft.

Capacity of Check Dam(s), ac-ft.

Capacity of Dozer Basin(s), ac-ft.

Dozer Basins Constructed

Check Dams Constructed

Required Number of Check Dams

Total Storage Completed, ac-ft.

SECTION 4.0

RESERVED



C-1981-010

SECTION 5.0

TOPSOIL STOCKPILE LOCATIONS



C-1981-010

SECTION 5.0 Topsoil Stockpile Locations

Trapper's approved permit (Section 4.9.2) specifies that CDRMS will be provided with map(s) illustrating the location of topsoil stockpiles constructed during the previous year and the approximate locations for stockpiles proposed for construction during the upcoming year (Map 1).

Table 5-1 lists all existing stockpiles with their identification nomenclature, coordinates (based on the approximate center of the pile), acres, construction date and volume; which is updated annually.

During 2021, Trapper moved the entirety of pile BP-1 and part of pile K2-15 to a new pile, L21-1, west of L-Pit. Trapper also constructed two new topsoil piles, L-21-2 and L-21-3 east of L-Pit stripping areas and a small pile, N21-1 in N-Pit during the 2021 field season.

At the end of 2021, excluding stockpiles abandoned with the approvals of MR-155 and TR-94, there are 78 existing topsoil stockpiles at Trapper affecting 178.4 acres and storing approximately 3,410,382 cubic yards of salvaged topsoil.

Proposed new topsoil stockpiles near the I/J-Pit area may be constructed in 2022. Trapper is planning to utilize existing topsoil stockpiles and live haul stripping for the 2022 reclamation season.

Table 5-1. Trapper Mine Topsoil Pile Inventory (1)

Topsoil Pile ID	Location	Coordinates		Size (acres)	Approximate CYDS	Year Created
		Northing	Easting			
18-2	Johnson Coal Pile	413,427	1,423,038	2.5	20,360	2018
18-3	Ash Dump	405,377	1,424,250	1.2	43,046	2018
19-1	K Ridge Reclamation	404,660	1,437,265	1.2	7,261	2019
19-5	K Ridge Reclamation	403,607	1,437,132	1.9	20,585	2019
A76-4	GB well site	410,070	1,417,400	0.5	7,805	pre 1976
A77-1	A field coal pile	409,850	1,411,300	1.3	10,620	1977
*A91-8	NW Edge of H Pit Reclamation	410,800	1,421,400	5.1	67,159	1991
*A92-1	North A Road East of East Pyeatt	411,900	1,427,900	12.5	336,429	1992
A92-3	North A Road East of West Pyeatt	412,100	1,424,400	0.6	7,632	1992
A92-4	North A Road Middle Pyeatt	411,300	1,425,600	7.2	171,972	1992
A92-5	North A Road West of East Pyeatt	412,670	1,426,360	7.8	194,000	1992
A93-1	A pit South #1	406,550	1,426,040	3.9	150,055	1993
A94-2	E of Grouse Drainage	412,000	1,429,300	4.4	120,606	1994
A96-2	North A Pit west of A 95-2	411,100	1,432,100	3.0	26,216	1996
A97-2	South of LOM Road	408,150	1,429,200	1.5	50,972	1997
A98-3	West Middle Flume Pond #3	407,500	1,438,240	5.3	204,024	1998
A99-3	East Middle Flume Pond	407,630	1,437,275	0.8	9,000	1999
A1-08	East of G1-03 Pile	406,870	1,439,000	5.6	183,982	2008
ASH1_2020	LOM/ASH Road	408,550	1,424,160	1.8	15,129	2020
ASH2_2020	LOM/ASH Road	407,300	1,423,850	3.6	60,000	2020
ASH3_Foster's Pile	LOM/ASH Road	409,850	1,424,000	2.3	38,684	2020
ASH4_2020	LOM/ASH Road	411,210	1,424,290	1.3	9,962	2020
ASH1	Johnson Gulch East Tributary	408,000	1,421,200	3.9	97,092	1992
ASH2	Johnson Gulch East Tributary	408,200	1,422,000	1.3	27,486	1992
BUZ92-1	Far East Buzzard Pond #1	411,100	1,410,250	0.4	882	1992
CG1	Coyote Gulch	411,050	1,412,200	4.8	11,910	1978
D93-1	North D pit #1	407,725	1,418,160	0.5	20,570	1993
D97-1	North end Enfield Pit	405,640	1,419,440	1.8	62,216	1997
D1-07	West Spoils Side of North End D-Pit	406,640	1,416,860	1.5	7,476	2007
E78-1	E pit SE pile small	402,490	1,422,730	0.7	10,000	1978
E78-2	Middle E pit pile	404,400	1,423,100	4.5	25,238	1978
E79-4	E pit SE pile large	401,900	1,422,650	2.8	34,010	pre 1979
E79-6	Castor Gulch road E pit pile	401,200	1,420,950	9.0	201,548	pre 1979
E87-12	E pit regrade pile	403,850	1,422,350	4.1	73,278	1987
E93-4	North E pit #4	408,750	1,421,050	0.9	14,030	1993
E93-5	Middle E pit #5	403,955	1,419,950	0.8	7,130	1993
E94-1	W of D East Road	404,280	1,420,370	0.3	2,304	1994
E94-2	N of D East Road	407,270	1,418,750	0.2	1,200	1994
EM1	South of I -Pit	411,330	1,414,300	0.4	5,456	1980
G1-01	North of LOM rd @ G Pit	407,740	1,434,270	4.0	101,948	2001
G1-03	East G-Pit	406,526	1,438,555	3.5	89,822	2003
G4-02	North A-E & LOM Roads Intersection	406,728	1,436,968	2.1	137,784	2002
G06-DG	Deal Gulch pond	399,380	1,438,040	0.6	10,104	2006/2018
H04	West Horse pond	401,580	1,430,260	0.7	6,244	2004
HRS	Horse Pond	403,090	1,432,930	1.0	24,781	2000
I20-1	South of I Pit	411,551	1,414,785	1.5	11,884	2020
I20-2	West end I-Pit	411,903	1,413,603	0.9	13,291	2020
I20-3	North Edge I-Pit	412,122	1,414,412	1.8	12,782	2020
JF-1	Jeffway Pond #1	401,578	1,442,426	0.7	1,760	2018
JG5	Johnson Gulch Elect Station	414,250	1,419,450	0.5	6,209	1989

Table 5-1. Cont. - page 2

Topsoil Pile ID	Location	Coordinates		Size (acres)	Approximate CYDS	Year Created
		Northing	Easting			
JG6	North A Haul Road Johnson	413,000	1,420,950	1.2	13,212	1987
JG7	North A Haul Road Ag Field W	412,400	1,422,250	0.5	16,850	1988
JG8	North A Haul Road Ag Field E	412,300	1,422,700	0.7	12,840	1988
K2-15	K Ridge Reclamation	402,400	1,435,600	7.1	67,082	2015
L2-17	East Readyline	405,490	1,434,900	2.4	46,485	2017
L20-2	K2 Road	404,650	1,438,139	2.0	32,400	2020
L21-1	L Reclamation	401,726	1,437,812	2.2	49,516	2021
L21-2	West of Jeffway Pond #1	401,449	1,442,020	1.6	19,502	2021
L21-3	Northwest on knob, Jeffway Pond #1	402,337	1,442,157	1.7	23,815	2021
L5-17	Road to East Ready Line	405,800	1,435,830	4.5	91,745	2017
MH1	Main haul road north	411,710	1,418,660	1.0	27,334	1986
MH2	Main haul road south	410,800	1,418,550	1.2	35,216	1982
MP1	Middle Pyeatt Dam #1	412,200	1,425,030	0.6	4,200	1986
MP2	Middle Pyeatt Dam #2	413,000	1,425,220	1.2	12,500	1986
MP7	Middle Pyeatt Sediment Basin	411,000	1,425,400	0.2	645	1991
N20-2	New LOM Raod	408,760	1,431,933	4.3	10,835	2020
N20-3	New LOM Raod	411,300	1,426,940	2.0	19,770	2020
N20-4	New LOM Raod	410,135	1,431,900	1.2	8,659	2020
N20-5	New LOM Raod	410,790	1,431,300	1.8	5,620	2020
N20-6	New LOM Raod	411,340	1,430,530	1.4	9,970	2020
N20-7	NE of Ash Pond	410,334	1,426,014	0.4	1,713	2020
N21-1	East Pyeatt, A pit reclaim	410,672	1,427,106	0.9	5,035	2021
NN20-1	East No-Name #2	410,711	1,416,540	1.6	12,920	2020
NN20-2	East end I-Pit Overburden Pile	411,282	1,417,835	2.2	35,965	2020
SP5-94	SW of Sage Pond	412,600	1,430,555	0.6	6,318	1994
SP6-94	SE of Sage Pond	412,700	1,431,200	0.7	12,204	1994
SY1	Shop yard pullout expansion	413,660	1,419,250	0.2	900	1990
WC1	Wye coal pile site	412,600	1,417,500	2.6	53,197	1978
Total				178.4	3,410,382	

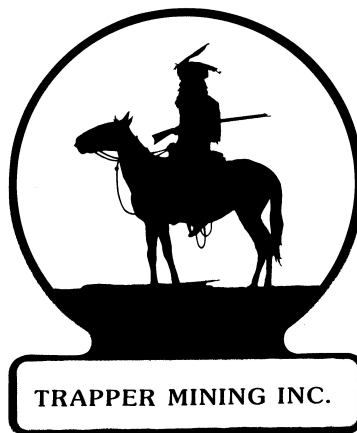
* In accordance with MR-155, all of piles A86-6 (depleted in 2004), A92-4 and A92-5 were abandoned and A91-8 and A92-1 were partially abandoned.

In accordance with TR-94, topsoil piles NN1, E89-11, JG-1, JG-2, JG-3, JG-4, WP-2, WP-3, EP-2, EP-3, EP-4, GP-1, A95-2, FWF97-1, A99-3 and EFL were abandoned.

(1) As of December 31, 2021

SECTION 6.0

LIVESTOCK PONDS



C-1981-010

SECTION 6.0 Stock Tank and Dozer Basin Construction Through 2021

6.1 Stock Tanks

This section updates the location of all constructed stock tanks through 2021 (Map 1). The average tank density for Trapper mined-land areas will not exceed one tank per ten acres. Existing stock tanks meet applicable certification standards.

In 2021 Trapper did not construct any new stock tanks.

6.2 Dozer Basins

As a result of the approval of technical revision TR-73 (January 1997), dozer basin locations will be provided in this Appendix W document on an annual basis (Map 1).

Dozer basins assist sediment impoundments in the containment of sediment, reducing the frequency of sediment impoundment cleaning. Dozer basins are typically constructed along haulroads, regraded spoils, and/or on short or long term disturbed sites.

Table 6-1 Existing Stock Tank Density by Drainage Area (1) through 2021

Drainage Area	Tanks Constructed	Approximate Drainage Area (ac)	Approximate Drainage Acres Per Tank
Johnson	4	165	41
No Name	6	246	41
West Pyeatt	3	279	93
East Pyeatt	5	1,270	254
Oak	3	314	105
Middle Flume	<u>1</u>	<u>18</u>	<u>18</u>
	24	2,292	87

(1) Based on average drainage area above first sediment control structure in any given drainage at Trapper Mine.

SECTION 7.0

MISCELLANEOUS



C-1981-010

SECTION 7.0 Miscellaneous

7.1 Vegetation Monitoring on Trapper Reclaimed Lands

Baseline vegetation monitoring occurred on 273.6 acres of reclaimed Trapper rangelands in Flintlock (F) pit and Lancaster (L) pit that had been initially topsoiled and seeded between 2018 and 2020 was accomplished during the 2021 field season. A total of 78 fifty-meter transects were monitored. Vegetation parameters sampled during 2021 included ground cover, species composition and woody stem density.

No vegetation monitoring is planned for 2022.

7.2 Grazing of Reclaimed Lands

No cattle grazing occurred on Trapper non final bond-released reclaimed lands during 2021, nor is any planned for 2022.

7.3 2021 Revegetation Seed Mixes

Section 3.6.3.5 of Trapper's Mining and Reclamation permit requires the Division be notified of the seed mixtures proposed to be used each year. Tables 7-1 through 7-4 give the 2022 proposed mixtures.

Required seed packing slips are attached behind Table 7-4 for shipments received in 2021.

7.4 Trapper Mine Facilities

In 2021, existing Trapper Mine facilities were not significantly changed during the reporting year. New power line and a substation were installed south of I-Pit to power the HWM in future operations in the west panel. Power lines were extended east and the substation was moved in L-Pit for the Molly Brown dragline.

7.5 Weed Control Measures

Weed control was performed on all areas of the mine-site. Herbicide was applied aerially as needed and selectively by ground crews. Efforts were primarily focused on newer reclaimed parcels and/or areas of historical concentrations. Areas surrounding facilities were treated by non-selective herbicides to obtain bare ground as needed. Reclaimed parcels were treated with recommended selective broadleaf herbicides for select noxious weeds. Noxious weeds are controlled in accordance with state and county lists and recommendations. Primary species of concern included Hoary cress (*Cardaria draba*), Dalmatian toadflax (*Linaria dalmatica*), Houndstongue (*Cynoglossum officinale*), Scotch thistle (*Onopordum acanthium*), Musk thistle (*Carduus nutans*), Canada thistle (*Cirsium arvense*) and Russian Knapweed (*Acroptilon repens*). Other possible species have included Black henbane (*Hyoscyamus niger*), Russian Olive (*Elaeagnus angustifolia*) and Tamarisk (*Tamarix spp.*).

Table 7-1. Seed mix for seeding Range Site AB in 2022, Trapper Mine.

SPECIES (1)	Pure Live Seed Per Square Foot	Pounds PLS Per Acre	Origin(1)
<u>Grasses:</u>			
Thickspike wheatgrass	0.5	0.14	N
Streambank wheatgrass	0.5	0.13	N
Western wheatgrass	0.5	0.19	N
Slender wheatgrass	0.5	0.14	N
Beardless bluebunch wheatgrass	2.0	0.62	N
Mountain brome	1.0	0.72	N
Great Basin wildrye	2.0	0.92	N
Kentucky bluegrass	3.0	0.06	*
Green needlegrass	1.0	0.24	N
Sheep Fescue	2.0	0.15	N
Redtop	2.0	0.02	I
Indian Ricegrass	1.0	0.23	N
Total grasses	16.0	3.56	--
<u>Forbs:</u>			
Munro Globemallow	1.0	0.08	N
Lewis Flax	2.0	0.30	N
Western yarrow	4.0	0.07	N
Cicer milkvetch	1.0	0.30	I
Arrowleaf balsamroot	0.5	0.40	N
Pacific aster	2.0	0.02	N
Rocky Mt. penstemon	2.0	0.14	N
Small burnet	0.5	0.40	I
Alfalfa	0.5	0.10	I
Showy Goldeneye	2.0	0.08	N
Total forbs	15.5	1.89	--
<u>Shrubs:</u>			
Rubber rabbitbrush	2.0	0.26	N
Silver sagebrush	2.0	0.10	N
Big sagebrush	3.0	0.07	N
Antelope bitterbrush	2.0	4.40	N
Mountain snowberry	1.0	0.58	N
Woods rose	1.0	0.96	N
Fourwing saltbrush	1.0	0.62	N
Chokecherry	0.3	3.00	N
Saskatoon serviceberry	0.3	0.29	N
Total shrubs	12.6	10.28	--
Total mixture	44.1	15.73	

(1) N - native, I - introduced, * - Naturalized.

Table 7-2. Seed mix for seeding Range Site C in 2022, Trapper Mine.

SPECIES	Pure Live Seed Per Square Foot	Pounds PLS Per Acre	Origin (1)
<u>Grasses:</u>			
Beardless bluebunch wheatgrass	1.0	0.31	N
Slender Wheatgrass	2.0	0.66	N
Thickspike wheatgrass	2.0	0.56	N
Streambank wheatgrass	2.0	0.51	I
Western wheatgrass	2.0	0.77	N
Great Basin wildrye	2.0	0.92	N
Sheep fescue	2.0	0.15	N
Kentucky bluegrass	4.0	0.08	*
Indian ricegrass	1.0	0.23	N
Mountain brome	2.0	1.43	N
Green needlegrass	2.0	0.48	N
Redtop	3.0	0.03	I
Total grasses	25.0	6.13	--
<u>Forbs:</u>			
Cicer Milkvetch	1.0	0.30	I
Western yarrow	4.0	0.04	N
Arrowleaf balsamroot	1.0	0.79	N
Lewis flax	4.0	0.61	N
Rocky Mt. penstemon	1.0	0.08	?
Small burnet	0.5	0.40	I
Pacific aster	2.0	0.03	N
Munro globemallow	0.5	0.04	N
Showy goldeneye	2.0	0.08	N
Total forbs	16.0	2.37	--
Total mixture	41.0	8.50	

(1) N - native, I - introduced, * - Naturalized, ? - Unknown, but genus occurs on the mine site.

Table 7-3. Seed mix for seeding temporary disturbance areas in 2022, Trapper Mine.

SPECIES	Pure Live Seed Per Square Foot	Pounds PLS Per Acre	Origin (1)
<u>Grasses:</u>			
Thickspike wheatgrass	3.0	0.84	N
Slender wheatgrass	4.0	1.10	N
Western wheatgrass	2.0	0.51	N
Great Basin wildrye	1.0	0.46	N
Kentucky bluegrass	6.0	0.12	*
Redtop	4.0	0.04	I
Total grasses	20.0	3.07	--
<u>Forbs:</u>			
Western yarrow	2.0	0.02	N
Alfalfa	2.0	0.42	I
Cicer milkvetch	2.0	0.64	I
Total forbs	6.0	1.08	--
Total mixture	26.0	4.15	

(1) N - native, I - introduced, * - Naturalized.

Table 7-4. Seed mix for aerial inter-seeding in 2022, Trapper Mine.

SPECIES (1)	Pure Live Seed Per Square Foot	Pounds PLS Per Acre	Origin(1)
<u>Forbs:</u>			
Lewis Flax	2.0	0.30	N
Western yarrow	5.7	0.10	N
Rocky Mt. penstemon	2.9	0.20	N
Total forbs	10.6	0.60	--
<u>Shrubs:</u>			
Rubber rabbitbrush	1.5	0.20	N
Silver sagebrush	4.0	0.20	N
Big sagebrush	8.6	0.20	N
Total shrubs	14.1	0.60	--
Total mixture	24.7	1.20	

(1) N - native

**INTERMOUNTAIN SEED, INC.**

P.O. Box 2, Ephraim, UT 84627
Phone: (435) 283-6639, Fax: (435) 283-4155
E-mail: sales@siseed.com

INVOICE

RECEIVED
NOV 08 2021

Invoice No.	7992
Date	11/4/2021
Ship Date	11/4/2021
FOB	
Terms	2% 10 Net 30
Due Date	12/4/2021

Bill To
Trapper Mining, Inc. P.O. Box 187 Craig, CO 81625

Ship To
Trapper Mining, Inc. 25910 South Highway 13 Craig, CO 81625

Customer Order No.	Ordered By	Account No.	Sales Rep	Ship Via	Customer Phone No.
P12501	Graham Roberts		Jason	Old Dominion	970-756-8950

Quantity	Bulk/PLS	Lot Number	Description (Species, Variety, Etc.)	Unit Price	Amount
30	Acres	M-4727	Temporary Seed Mix		
151.2	PLS	NBS-CF5-CRI-2	Thickspike Wheatgrass - Critana	7.50	1,134.00
198	PLS	LMND-19-SFS	Slender Wheatgrass - First Strike	3.50	693.00
21.6	PLS	J6-9-AT405	Kentucky Bluegrass - Ginger	3.50	75.60
		Shipping	Freight Charge	290.40	290.40

OK
Dwy
11/11/21

ENTERED NOV 11 2021

Please pay from this Invoice. No statement will be sent.

Received By:

Date:

Subtotal	\$2,193.00
Sales Tax (6.75%)	\$0.00
Balance Due	\$2,193.00

THANK YOU. We appreciate your business!

Notice to Buyer: Stevenson Intermountain Seed guarantees its seed sold is as described on the label, within recognized tolerances, but express or imply no further guarantee. Our liability is limited in the amount to the purchase price. Any claims against seed purchases must be made in writing within 10 days after the receipt of shipment. Interest is charged at 1.5% per month (18% A.P.R) on all accounts past due.

650



INTERMOUNTAIN SEED, INC.

P.O. Box 2, Ephraim, UT 84627
Phone: (435) 283-6639, Fax: (435) 283-4155
E-mail: sales@siseed.com

INVOICE

Invoice No.	7876
Date	4/12/2021
Ship Date	4/12/2021
FOB	
Terms	2% 10 Net 30
Due Date	5/12/2021

Bill To Trapper Mining, Inc. P.O. Box 187 Craig, CO 81625

Ship To Trapper Mining, Inc. 25910 South Highway 13 Craig, CO 81625

Customer Order No.	Ordered By	Account No.	Sales Rep	Ship Via	Customer Phone No.
P10472	Graham Roberts		Jason	Stevenson Truck	970-756-8950

Quantity	Bulk/PLS	Lot Number	Description (Species, Variety, Etc.)	Unit Price	Amount
1	Mix	M-4690	Spring Aerial Seed Mix 2021		
27	PLS	J16-18VR36EM	Western Yarrow - Eagle (30.71 bulk)	26.00	702.00
81	PLS	NBS-RR19-APP-2	Blue Flax - Appar (84.88 bulk)	16.50	1,336.50
54	PLS	2019.0480	Rocky Mountain Penstemon - Bandera (67.48 bulk)	35.00	1,890.00
54	PLS	ARCA-20	Silver Sagebrush (283 bulk)	68.00	3,672.00
54	PLS	SIS5508	Mountain Big Sagebrush (274.60 bulk)	56.00	3,024.00
54	PLS	SIS5419	Whitestem Rubber Rabbitbrush (165.78 buk)	42.00	2,268.00
540	Bulk	Rice Hulls	Rice Hulls	0.35	189.00
			Free shipping		
				<p>ENTERED APR 15 2021</p> <p>2% Disc - 261.63</p>	

Please pay from this Invoice. No statement will be sent.

Received By:

Date:

Subtotal	\$13,081.50
Sales Tax (6.65%)	\$0.00
Balance Due	\$13,081.50

THANK YOU. We appreciate your business!

net 12,819.87

Notice to Buyer: Stevenson Intermountain Seed guarantees its seed sold is as described on the label, within recognized tolerances, but express or imply no further guarantee. Our liability is limited in the amount to the purchase price. Any claims against seed purchases must be made in writing within 10 days after the receipt of shipment. Interest is charged at 1.5% per month (18% A.P.R) on all accounts past due.

650