



February 7, 2024

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

Re: Oxbow Mining, LLC., Permit C-1981-022  
2023 Annual Reclamation Report

Dear Mr. Simmons:

The following information is submitted as the 2023 Annual Reclamation Report for the Oxbow Mining, LLC, Sanborn Creek and Elk Creek Mines. The contents of this report are submitted to satisfy the requirements of CDMG Rule 2.04.13 Annual Reclamation Reports. Also included is an executed *CDRMS, Annual Reclamation Report for Calendar Year 2023* form.

Items to complete demolition, backfill and grading for the property are the dams that remain at the bottom of the refuse piles, (Pond C and Pond E), and the reclamation of the West Valley II lower access road. Phase 2 release of these areas was achieved in 2022 and this reclamation may be scheduled for 2024.

The spring season of 2023 brought unusually high and damaging runoff water in the lower area portion of Elk Creek. In August of 2023, repairs were made to the creek and ditch T-1 was removed as part of the reparations. Supplemental seeding was spread and sediment control was placed. The ditch T-1 area had been Phase 2 released with SL-06.

Surety Release 01 (SL-01) for the Elk Creek facilities area was completed during 2019. SL-01 included 19.4 acres of phase 1 bond release in areas known as the Middle and Lower Pads. A 1.3 acre area composed of a two foot barrier surrounding the reclaimed Elk Creek was not included in the release, but will be eligible for phase 3 release in 2028.

Elk Creek Surety Release 02 (SL-02) was submitted in September of 2019 and was completed in 2021. Elk Creek Surety Release 03 (SL-03) was submitted in August of 2020 and was completed in 2021. Elk Creek Surety Release 04 (SL-04) was submitted in January of 2021 and was subdivided into an additional Elk Creek Release 05 (SL-05) to increase inspection efficiencies. SL-04 was completed in 2021 and SL-05 was completed in February of 2022. Elk Creek Surety Release 06 (SL-06) was submitted in October 2021 and was completed in November 2022. Elk Creek Surety Release 07 (SL-07) was submitted in April of 2022 was completed in 2023. SL-08 was submitted in November of 2022 and the Proposed Decision and Findings of Compliance was issued in December of 2023 and is included in this report for 2023.

#### Seed Purchases:

25 pounds of Table 3 - OMLLC seed mix was purchased during 2023. Twenty pounds were spread at the lower elk creek repair area and 5 pounds were spread on Hotchkiss Ranch properties. These were small supplemental seed areas. All 25 pounds of Table 3 – OMLLC seed mix were utilized. A certification letter and seed analysis accompany this submittal.

#### Weed Control

Scattered thistles, hounds tongue, white top and other noxious weeds were sprayed by Oxbow employees. *Curtail* and *Escort* herbicides were used in accordance with the labels. Areas sprayed included general disturbance areas such as road cuts, reclaimed areas, warehouse storage areas, pond out slopes, reclaimed borehole roads and borehole pad sites, etc.

#### Rill and Gully Survey

The Lower Hubbard Creek site, the Bear Creek site, the reclaimed areas of the II West and West Valley fill coal refuse disposal area and East Yard coal refuse disposal area and the reclaimed degas wells sites, etc. were inspected for the formation of rills and gullies deeper than nine inches. No such gullies were encountered which would require follow-up repair and seeding.

#### Reclamation Map

The Division has, within the PAP, a number of maps showing the location of the particular reclaimed areas. As in years past, rather than maps, this report contains an updated: EXHIBIT 1 – SUMMARY OF DISTURBANCE/ SEEDED AREAS, summarizing the OMLLC disturbance and reclaimed areas. It is implied that the areas noted as reclaimed include applicable backfilling, grading, topsoil spreading, and seeding activities.

#### EXHIBIT 1

Last years EXHIBIT 1 was updated to highlight areas that were reclaimed in 2013.

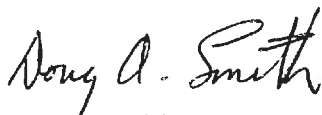
#### EXHIBIT 2

EXHIBIT 2 is included in this report to show the calculation used to account for Light Use drill roads that were left on Hotchkiss Ranch property, at their request. The request was approved in MR108. The road lengths listed in the drill hole descriptions were multiplied by an estimated average width of 17 feet, which was converted to acres. The total acreage for roads left is 5.6 acres.

#### EXHIBIT 3

EXHIBIT 3 is a copy of the spreadsheet included to show sums used to complete the 2023 Annual Reclamation Report Form. An error of 0.62 acres that occurred in Surety Release 3 was discovered during the review of Surety Release 7. EXHIBIT 3 reflects this correction which also is carried onto the attached ARR Form.

Please let me know what further corrections you would like to see and how you would like to proceed. Please contact me at 970-929-6034 with questions.



Doug A. Smith  
Chief Engineer

#### Attachments

Xc: Mike Ludlow (OMLLC)  
Files

# Colorado Division of Reclamation, Mining and Safety

Annual Reclamation Report for Calendar Year – 2023

ELK CREEK MINE

C1981022

OXBOW MINING, LLC

Mine Name

Permit Number

Permittee

P. O. BOX 535, SOMERSET, CO 81434

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 <sup>1</sup>	NA			=	NA

Land Category	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Acres Disturbed <sup>2</sup>	239.2			=	239.2
Acres Backfilled and Graded	180.1			=	180.1
Acres Topsoiled	180.1			=	180.1

Acreage in Long-term Facilities <sup>3</sup>	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Non-Permanent Facilities	3.3			=	3.3
Permanent Facilities (permitted)	55.8			=	55.8
Totals	59.1			=	59.1

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	103.4		0.2	=	103.2
10 Years and Greater	76.7	0.2		=	76.9
Totals	180.1			=	180.1

Bond Release	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Phase I Released	166.0			=	166.0
Phase II Released	166.0			=	166.0
Phase III Released	49.8	30.8		=	80.6

<sup>1</sup>Includes pits, topsoil stripped areas in advance of pits, and spoil not backfilled and graded

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

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

February 8, 2019

OXBOW MINING, LLC  
2023 ARR

**Exhibit 1 – Summary of Disturbance/ Seeded Areas**

**LONG TERM FACILITIES**

Elk Creek mine surface facilities	24.2	Permanent
Power line road	17.0	Permanent
Power line road, Hubbard Creek	0.7	Permanent
Upper Hubbard Creek(Somerset Mine)	3.3	NonPermanent
Rock dust site – Elk Creek	0.5	Permanent
Bear Creek Fan and Shaft (2009)	2.3	Permanent
Substation No. 3 and ventilation shaft	1.6	Permanent
Water treatment plant area	1.5	Permanent
Sewage effluent absorption field	0.3	Permanent
Bear Creek Cutoff LU Road	2.1	Permanent
Hotchkiss Ranch Roads retained (exhibit 2)	5.6	Permanent
subtotal	59.1	

**SEEDED AREAS (B&G)**

<u>Area</u>	<u>Acres</u>	<u>Year Seeded</u>	<u>&lt;=9 years</u>	<u>&gt;=10 years</u>
Lower Hubbard Creek(Somerset Mine)	2.6	1996		2.6
Bear Creek fan area (U.S. Steel)	3.0	1996		3.0
East Yard coal mine waste (gob) pile	1.1	2002 and 2003		1.1
A-Gulch	5.0	2003		5.0
Sanborn Creek Portal area	2.3	2003		2.3
Sanborn Creek mine, SC-1	4.1	2003		4.1
Sanborn Creek Portal Borrow area	0.4	2003		0.4
Hubbard Fansite	3.2	2011		3.2
Coal Gulch drill holes	0.4	2017	0.4	
Temporary conveyor Elk Creek	0.3	2018	0.3	
West Valley Fill	0.6	2002		0.6
West Valley Fill	0.5	2003		0.5
West Valley Fill remaining completed	11.8	2018	11.8	
II West up to 6,100'	0.4	2009		0.4
II West – 6100' to 6113'	0.1	2010		0.1
II West - 6113' to 6122'	0.1	2011		0.1
II West – 6122' to 6128'	0.1	2012		0.1
II West – 6128' to 6141'	0.2	2013		0.2
II West remaining completed	2.5	2018	2.5	
Elk Creek facilities area	39.0	2018	39.0	
seeded areas (B&G) subtotal	77.7		53.9	23.8
longterm /seeded (B&G) total	136.8			

**Degasification (Gob Vent Borehole) borehole sites and light use roads**

			<u>HR ROAD LEFT</u>	<u>&lt;=9 years</u>	<u>&gt;=10 years</u>
GVB-LW3-01, GVB-LW4-03					
(4000' road and pads)	2.1	2005			2.1
GVB-LW3-02	0.5	2005			0.5
GVB-LW4-01 (1915' road and pad)	1.5	2005			1.5
GVB-LW4-02	0.5	2005			0.5
GVB-LW6-02 (1600' road and pad)	0.9	2006			0.9
GVB-LW6-03 pad plus 535' road	0.6	2006			0.6
GVB-LW7-02 pad plus 600' road	0.7	2006			0.7
GVB-LW8-01	0.5	2006 and 2007			0.5
GVB-LW7-03 pad	0.3	2007			0.3
GVB-LW12-01 (pad and 709' road)	0.8	2007			0.8

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GVB-LW11-01B	0.2	2007			0.2
GVB-LW10-01 pad plus 1190' road	0.9	2007			0.9
TC1 and TC2 wells	1.2	2007			1.2
GVB-LW9-01 pad + 3500' road	1.7	2008			1.7
GVB-LW11-01A pad	0.3	2008			0.3
GVB-LW12-03 pad	0.5	2008			0.5
GVB-LW9-01B pad + 5600' road	2.8	2009			2.8
GVB-LW10-02 pad	0.3	2009			0.3
GVB-LW9-02 pad	0.4	2009			0.4
GVB-LW10-03BC pad	1.2	2009			1.2
GVB-LW9-03 pad plus 132' road	0.4	2009			0.4
GVB-LW8-02 pad and 1425' road	1.4	2010			1.4
GVB-LW8-03 pad only	0.2	2010			0.2
GVB-LW9-04 pad	0.4	2010			0.4
GVB-LW10-04 pad	0.4	2010			0.4
GVB-LW11-02 pad on road	0.4	2010			0.4
GVB-LW12-02 pad on road	0.0	2010			0.0
VB-1S-01, B-1S-02 pad + 800' road	0.4	2010			0.4
ECM-10-68 pad + 500' road	0.4	2010			0.4
ECM-10-69 pad + 770' road	0.5	2010			0.5
ECM-10-70 pad	0.3	2010			0.3
ECM-10-71 pad + 420' road	0.4	2010			0.4
ECM-10-72 pad + 370' road	0.4	2010			0.4
ECM-10-73 pad + 700' road	0.4	2010	-0.3		0.4
ECM-10-74 pad + 1,360' road	0.6	2010	-0.5		0.6
ECM-10-75 pad + 475' road	0.4	2010	-0.2		0.4
ECM-10-76 pad + 225' road	0.3	2010	-0.1		0.3
GVB-LW15-03 pad + 5500' road	3.9	2011			3.9
GVB-LW15-04 pad + 1,207' road	1.8	2011			1.8
GVB-LW15-05 pad + 2,000' road	1.4	2011			1.4
GVB-LW15-06 pad + 830' road	1.2	2011			1.2
GVB-LW15-07 pad + 1,500' road	1.3	2011			1.3
GVB-LW16-02, 02B, 02C pad + 1,300' road	2.0	2011			2.0
GVB-LW16-03 pad + 333' road	1.5	2011			1.5
GVB-LW16-04B, pad + 1100' road	2.0	2011	-0.4		2.0
GVB-LW16-05 pad + 1000'	1.5	2011	-0.4		1.5
GVB-LW16-06 pad + 750' road	0.9	2011			0.9
GVB-LW16-07, 07B pad + 600' road	0.8	2011			0.8
GVB-LW18-07 pad	0.8	2011			0.8
GVB-LW18-01A pad + 1500' road	1.3	2011	-0.6		1.3
GVB-LW17-01C pad	0.3	2011			0.3
GVB-LW19-03 pilot- pad + 537' road	1.4	2011			1.4
GVB-LW15-02, 01A, 01B pad	1.8	2012			1.8
GVB-LW15-08 pad + 200' road	0.9	2012			0.9
GVB-LW17-01AB pad + 319' road	1.1	2012			1.1
GVB-LW17-03 pad + 500' road	0.9	2012			0.9
GVB-LW17-04, 04B, 04C	1.0	2012			1.0
GVB-LW17-09 pad only	1.0	2012			1.0
GVB-LW9-05 + 1300' road	1.2	2012			1.2
GVB-LW10-05 pad plus 896' road	0.8	2012	-0.3		0.8
GVB-LW12-03 - 2013' road	0.8	2012	-0.8		0.8
GVB-LW11-03 pad along road	0.2	2012			0.2
GVB-LW18-07 B,C,D pad	0.8	2016		0.8	
GVB-LW18-07 B,C,D pad + 1900' road	0.8	2016		0.8	
GVB-LW18-08 pad + 600' road	0.9	2016		0.9	

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GVB-LW19-08 + road 1833'	1.9	2016		1.9	
Dewater #1,#2 5082' road only	2.1	2016		2.1	
Dewater #1,#2 pad only	1.6	2016		1.6	
Sanborn Creek Mine (#s 1-14)	6.1	2017		6.1	
GVB-LW7-04	0.2	2017		0.2	
GVB-LW8-04	0.1	2017		0.1	
GVB-LW16-01,B,C,D, E (2 pads + 790' road) (lower pad)	2.5	2017	-0.3	2.5	
GVB-LW16-08 pad + 670' road	0.6	2017		0.6	
GVB-LW17-02, 02B, 02C pad + 35' road	0.7	2017		0.7	
GVB-LW17-05, 05B pad + 700' road	1.5	2017	-0.3	1.5	
GVB-LW17-06, 06B, 06C pad + 757' road	1.2	2017		1.2	
GVB-LW17-07 pad	0.4	2017		0.4	
GVB-LW17-08, 08B pad + 1477' road	1.2	2017		1.2	
GVB-LW18-03 pilot- pad + 569'	0.6	2017	-0.2	0.6	
GVB-LW18-09 + 1600' road	1.7	2017		1.7	
GVB-LW19-01A pilot- pad+ 440' (see HGBMP)	1.3	2017	-0.2	1.3	
GVB-LW19-07 + road 525'	1.0	2017		1.0	
GVB-LW19-09 + road 755'	1.3	2017		1.3	
GVB-LW17-09 pad + 517' road	1.2	2017		1.2	
GVB-LW18-01B	0.7	2017	0.0	0.7	
GVB-LW18-02 pad + 146 road	1.0	2017		1.0	
GVB-LW18-02B + 417' road	1.0	2017	-0.2	1.0	
GVB-LW18-03B + 297' road	0.9	2017		0.9	
GVB-LW18-04	0.5	2017		0.5	
GVB-LW18- 04B +78' road	1.0	2017		1.0	
GVB-LW18-04C + 371' road	0.8	2017	-0.1	0.8	
GVB-LW18-05 + 328' road	1.2	2017	-0.1	1.2	
GVB-LW18-06 + 100' road	0.8	2017		0.8	
GVB-LW19-01B +116' road	0.7	2017		0.7	
GVB-LW19-01C on road	0.7	2017		0.7	
GVB-LW19-01D on road	0.9	2017		0.9	
GVB-LW19-02 + 275' road	1.1	2017	-0.1	1.1	
GVB-LW19-02B + 450' road	0.8	2017	-0.2	0.8	
GVB-LW19-03B + 49' road	1.1	2017		1.1	
GVB-LW19-04 on road	0.7	2017		0.7	
GVB-LW19-04B + 52' road	1.1	2017	0.0	1.1	
GVB-LW19-05 + 222' road	1.0	2017	-0.1	1.0	
GVB-LW19-06 + 1423' road	1.4	2017		1.4	
TGBMPA +556' road	1.1	2017	-0.2	1.1	
HGBMP + (19-01A location)	0.0	2017	0.0	0.0	
HGA	1.5	2017		1.5	
TGA	0.8	2017		0.8	
5B	0.8	2017		0.8	
Hotchkiss Ranch road retained (exhibit 2)	-5.6			-2.0	-3.6
subtotal	102.4				

**Cumulative Total Reclamation** 239.2

	<=9 years	>=10 years
b&g	53.9	23.8
degas	49.3	53.0
	103.26	76.81

road left per land owners request (see MR108)

adjusted for 2013 reclamation

change for 2013 0.2

corrected lines

OXBOW MINING, LLC  
2023 ARR

EXHIBIT 2

HOTCHKISS LIGHT USE ROADS LEFT AS PERMANENT FACILITIES  
AT 17 FEET WIDE

	FEET OF ROAD AC @17'W		PERMIT AC.
GVB-16-04B, pad + 1100' road	1100	0.4	2.0
GVB-LW16-05 pad +1000'	1000	0.4	1.5
GVB-LW17-05, 05B pad + 700' road	700	0.3	1.5
GVB-LW10-05 pad plus 896' road	896	0.3	0.8
GVB-LW12-03 - 2013' road	2013	0.8	0.8
GVB-LW16-01,B,C,D, E (2 pads + 790' road) (lower pad)	790	0.3	2.5
GVB-LW18-03 pilot- pad + 569'	569	0.2	0.6
GVB-LW18-02B + 417' road	417	0.2	1.0
GVB-LW19-01A + 440' (see HGBMP)	440	0.2	1.7
HGBMP + (19-01A location)	0	0.0	0.0
GVB - LW18-01B	0	0.0	0.7
TGBMPA +556' road	556	0.2	1.1
GVB-LW18-04C + 371' road	371	0.1	0.8
GVB-LW18-05 + 328' road	328	0.1	1.2
GVB-LW19-02 + 275' road	275	0.1	1.1
GVB-LW19-02B + 450' road	450	0.2	0.8
GVB-LW19-04B + 52' road	52	0.0	1.1
GVB-LW19-05 + 222' road	222	0.1	1.0
GVB-LW18-01A pilot -pad+1,500'	1500	0.6	1.3
ECM-10-73 pad + 700' road	700	0.3	0.4
ECM-10-74 pad + 1,360' road	1360	0.5	0.6
ECM-10-75 pad + 475' road	475	0.2	0.4
ECM-10-76 pad + 225' road	225	0.1	0.3
	<u>14439</u>	<u>5.6</u>	

OXBOW MINING, LLC  
2023 ARR

EXHIBIT 3

TOTALS FOR ARR FORM

Acres Disturbed= B&G + Long term facilities	239.2
Acres B&G = GVB & LU ROADS & RECLAIMED FACILITIES	180.1
Acres Topsoiled = topsoiled & seeded	180.1

Acres long term facilities	59.10
permitted long term s= haul, LU roads	
Totals	59.10

9 years and less (2021-9 >=2012)	GVB	49.33
	SEEDED (B&G)	<u>53.93</u>
		103.3

10 years and greater (2021-10 <= 2011)	GVB	53.0
	SEEDED (B&G)	<u>23.8</u>
		76.8

180.1

FOR 2023 ARR USE

	Phase 1 (ac.)	Ph. 2 (ac.)	Ph. 3 (ac.)
SL-1 2019	19.4	0	0
SL-2 2021	138.74	72.69	2.33
SL-3 2021*	0	49.82	0
SL-4 2021	5.7	5.7	16.4
SL-5 2022	2.2	2.2	31.12
SL-6 2022	0	35.63	0
SL-7 2023	0	0	21.24
SL-8 2023	0	0	9.5
	166.0	166.0	80.6

\* SL3 CORRECTION DISCOVERED AND APPLIED IN SL7 FINDINGS



From:  
Granite Seed - Denver

490 East 76th Ave., Unit A  
Denver, CO 80229

## CERTIFIED COPY OF SEED ANALYSIS

Separate Seed Certification  
3-66818

### Kind and Variety: THICKSPIKE WHEATGRASS - Critana

Lot Number:	22-0-14	Origin:	MT
Pure Seed:	98.04 %	Germ % + Hard %	98 -G&TZ
Other Crop:	0.00 %	Total Viable %:	98.00
Inert Matter:	1.96 %	Date Tested:	06-APR-23
Weed Seed:	0.00 %	Prohibited or Restricted Noxious Weed:	None
Pure Live Seed:	96.08 %		

Laboratory Names:  
Montana State Seed Lab  
(Purity: Montana State Seed Lab)

### Kind and Variety: RABBITBRUSH, RUBBER - VNS

Lot Number:	V-131136	Origin:	UT
Pure Seed:	59.91 %	Germ % + Hard %	83 -TZ
Other Crop:	0.00 %	Total Viable %:	83.00
Inert Matter:	40.09 %	Date Tested:	24-MAY-23
Weed Seed:	0.00 %	Prohibited or Restricted Noxious Weed:	None
Pure Live Seed:	49.73 %		

Laboratory Names:  
NST Labs  
(Purity: NST Labs)

### Kind and Variety: WESTERN WHEATGRASS - Rosana

Lot Number:	22-2-21	Origin:	MT
Pure Seed:	97.58 %	Germ % + Hard %	93 -G&TZ
Other Crop:	0.00 %	Total Viable %:	93.00
Inert Matter:	2.36 %	Date Tested:	10-APR-23
Weed Seed:	0.06 %	Prohibited or Restricted Noxious Weed:	None
Pure Live Seed:	90.75 %		

Laboratory Names:  
Montana State Seed Lab  
(Purity: Montana State Seed Lab)

### Kind and Variety: GREEN NEEDLEGRASS - Lodorn

Lot Number:	19-6-60	Origin:	CAN
Pure Seed:	99.83 %	Germ % + Hard %	36 + 60 = 96-G&TZ
Other Crop:	0.00 %	Total Viable %:	96.00
Inert Matter:	0.17 %	Date Tested:	24-AUG-23
Weed Seed:	0.00 %	Prohibited or Restricted Noxious Weed:	None
Pure Live Seed:	95.84 %		

Laboratory Names:  
NST Labs  
(Purity: NST Labs)

### Kind and Variety: BROMEGRASS, MOUNTAIN - Bromar

Lot Number:	2221-1	Origin:	WA
Pure Seed:	99.80 %	Germ % + Hard %	98 -G
Other Crop:	0.00 %	Total Viable %:	98.00
Inert Matter:	0.20 %	Date Tested:	29-MAR-23
Weed Seed:	0.00 %	Prohibited or Restricted Noxious Weed:	None
Pure Live Seed:	97.80 %		

Laboratory Names:  
Montana State Seed Lab  
(Purity: WA Dept. of Agriculture)

### Kind and Variety: FESCUE, SHEEP - Azure

Lot Number:	U21-21-35687-2-CTD	Origin:	OR
Pure Seed:	98.38 %	Germ % + Hard %	92 -TZ
Other Crop:	0.00 %	Total Viable %:	92.00
Inert Matter:	1.59 %	Date Tested:	01-DEC-22

Laboratory Names:  
NST Labs  
(Purity: Oregon State University)

Granite Seed - Denver certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Certified By: Miranda McCutchen

Signature:



Date: 01/22/2024

From:  
Granite Seed - Denver

490 East 76th Ave., Unit A  
Denver, CO 80229

Weed Seed: 0.03 %  
Pure Live Seed: 90.51 %

## CERTIFIED COPY OF SEED ANALYSIS

Separate Seed Certification  
3-66818

Prohibited or Restricted Noxious Weed: None

### Kind and Variety: WILD RYE, GREAT BASIN - Magnar

Lot Number: 22-0-12  
Pure Seed: 99.75 %  
Other Crop: 0.03 %  
Inert Matter: 0.22 %  
Weed Seed: 0.00 %  
Pure Live Seed: 83.79 %

Origin: MT  
Germ % + Hard %: 84 -G  
Total Viable %: 84.00  
Date Tested: 10-JUL-23  
Prohibited or Restricted Noxious Weed: None

Laboratory Names:  
Montana State Seed Lab  
(Purity: Montana State Seed Lab)

### Kind and Variety: SANDBERG BLUEGRASS - High Plains

Lot Number: NBS-LH21-HPS-1  
Pure Seed: 96.59 %  
Other Crop: 0.00 %  
Inert Matter: 3.41 %  
Weed Seed: 0.00 %  
Pure Live Seed: 85.00 %

Origin: WA  
Germ % + Hard %: 88 -G  
Total Viable %: 88.00  
Date Tested: 01-MAY-23  
Prohibited or Restricted Noxious Weed: None

Laboratory Names:  
WA Dept. of Agriculture  
(Purity: Idaho State Seed Lab)

### Kind and Variety: YARROW, WESTERN - Columbia

Lot Number: 2039-1  
Pure Seed: 95.39 %  
Other Crop: 0.00 %  
Inert Matter: 4.08 %  
Weed Seed: 0.53 %  
Pure Live Seed: 87.76 %

Origin: WA  
Germ % + Hard %: 92 -TZ  
Total Viable %: 92.00  
Date Tested: 24-MAY-23  
Prohibited or Restricted Noxious Weed: None

Laboratory Names:  
NST Labs  
(Purity: Montana State Seed Lab)

### Kind and Variety: BLUE FLAX - Appar

Lot Number: 2027-1  
Pure Seed: 97.29 %  
Other Crop: 0.00 %  
Inert Matter: 2.60 %  
Weed Seed: 0.11 %  
Pure Live Seed: 93.40 %

Origin: WA  
Germ % + Hard %: 96 -TZ  
Total Viable %: 96.00  
Date Tested: 09-MAR-23  
Prohibited or Restricted Noxious Weed: None

Laboratory Names:  
NST Labs  
(Purity: NST Labs)

### Kind and Variety: PENSTEMON, ROCKY MOUNTAIN - Bandera

Lot Number: QQ042922-17  
Pure Seed: 99.31 %  
Other Crop: 0.00 %  
Inert Matter: 0.69 %  
Weed Seed: 0.00 %  
Pure Live Seed: 86.40 %

Origin: OR  
Germ % + Hard %: 77 + 10 = 87-P&G  
Total Viable %: 87.00  
Date Tested: 19-APR-23  
Prohibited or Restricted Noxious Weed: None

Laboratory Names:  
Precision Seed Testing

### Kind and Variety: PENSTEMON, PALMER - Cedar

Lot Number: 2421  
Pure Seed: 98.15 %  
Other Crop: 0.00 %

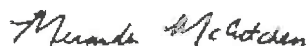
Origin: CO  
Germ % + Hard %: 83 -TZ  
Total Viable %: 83.00

Laboratory Names:  
NST Labs  
(Purity: NST Labs)

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Certified By: Miranda McCutchen

Signature:



Date: 01/22/2024

From:  
Granite Seed - Denver

490 East 76th Ave., Unit A  
Denver, CO 80229

Inert Matter: 1.81 %  
Weed Seed: 0.04 %  
Pure Live Seed: 81.46 %

## CERTIFIED COPY OF SEED ANALYSIS

Separate Seed Certification  
3-66818

Date Tested: 24-MAY-23

Prohibited or Restricted Noxious Weed: None

### Kind and Variety: CICER MILKVETCH - Lutana

Lot Number: 21-0-47  
Pure Seed: 99.99 %  
Other Crop: 0.00 %  
Inert Matter: 0.01 %  
Weed Seed: 0.00 %  
Pure Live Seed: 90.99 %

Origin: MT  
Germ % + Hard %: 39 + 52 = 91-G&TZ  
Total Viable %: 91.00  
Date Tested: 10-JAN-23  
Prohibited or Restricted Noxious Weed: None

Laboratory Names:  
Montana State Seed Lab  
(Purity: Montana State Seed Lab)

### Kind and Variety: SAINFOIN - Remont

Lot Number: 21-0-7  
Pure Seed: 99.78 %  
Other Crop: 0.00 %  
Inert Matter: 0.22 %  
Weed Seed: 0.00 %  
Pure Live Seed: 86.81 %

Origin: MT  
Germ % + Hard %: 86 + 1 = 87-G&TZ  
Total Viable %: 87.00  
Date Tested: 29-MAR-23  
Prohibited or Restricted Noxious Weed: None

Laboratory Names:  
Montana State Seed Lab  
(Purity: Montana State Seed Lab)

### Kind and Variety: MOUNTAIN BIG SAGEBRUSH - VNS

Lot Number: V-131018  
Pure Seed: 48.27 %  
Other Crop: 0.00 %  
Inert Matter: 51.73 %  
Weed Seed: 0.00 %  
Pure Live Seed: 41.99 %

Origin: UT  
Germ % + Hard %: 87 -TZ  
Total Viable %: 87.00  
Date Tested: 01-NOV-22  
Prohibited or Restricted Noxious Weed: None

Laboratory Names:  
NST Labs  
(Purity: Idaho State Seed Lab)

### Kind and Variety: BITTERBRUSH, ANTELOPE - VNS

Lot Number: V-140845  
Pure Seed: 98.59 %  
Other Crop: 0.00 %  
Inert Matter: 1.41 %  
Weed Seed: 0.00 %  
Pure Live Seed: 62.11 %

Origin: ID  
Germ % + Hard %: 63 -P&TZ  
Total Viable %: 63.00  
Date Tested: 12-DEC-22  
Prohibited or Restricted Noxious Weed: aegilops spp.

Laboratory Names:  
Idaho State Seed Lab

### Kind and Variety: SAGEBRUSH, FRINGED - VNS

Lot Number: V-130798  
Pure Seed: 88.80 %  
Other Crop: 0.38 %  
Inert Matter: 10.82 %  
Weed Seed: 0.00 %  
Pure Live Seed: 79.92 %

Origin: CO  
Germ % + Hard %: 90 -TZ  
Total Viable %: 90.00  
Date Tested: 24-MAY-23  
Prohibited or Restricted Noxious Weed: None

Laboratory Names:  
NST Labs  
(Purity: NST Labs)

### Kind and Variety: BEARDLESS BLUEBUNCH WHEATGRASS - Whitmar

Lot Number: 2173-1  
Pure Seed: 98.42 %

Origin: WA  
Germ % + Hard %: 88 + 5 = 93-G&TZ

Laboratory Names:  
NST Labs  
(Purity: NST Labs)

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Certified By: Miranda McCutchen

Signature:



Date: 01/22/2024

From:  
Granite Seed - Denver

490 East 76th Ave., Unit A  
Denver, CO 80229

## CERTIFIED COPY OF SEED ANALYSIS

Separate Seed Certification  
3-66818

Other Crop: 0.00 %  
Inert Matter: 1.52 %  
Weed Seed: 0.06 %  
Pure Live Seed: 91.53 %

Total Viable %: 93.00  
Date Tested: 19-SEP-23  
Prohibited or Restricted Noxious Weed: None

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Certified By: Miranda McCutchen

Signature:



Date: 01/22/2024



490 East 76<sup>th</sup> Ave., Unit A  
Denver, Colorado 80229  
Toll Free (888) 577-5650  
Fax (888) 695-5450

Granite Seed - Denver  
490 East 76<sup>th</sup> Ave., Unit A  
Denver, CO 80229

3-66818

Date Shipped: 18-Sep-23

Sold To:  
Oxbow Mining Company  
Accounts Payable  
1601 Forum Place  
Suite 1400  
West Palm Beach, FL 33401

Project Name: TABLE 3 - OMLLC  
Mix Name: TABLE 3 - OMLLC  
Seed Mix Number: 251204  
Customer PO:

### Letter of Certification

This memo is written to certify that this seed mix is true to label and has been duly tested by a fully accredited seed testing laboratory using rules sanctioned by the Association of Official Seed Analysts. The specifications of the seed used in the mix are as follows:

Common Name	Variety	Origin	Lot #	Purity	G+D+H	%PLS
Sainfoin	Remont	MT	21-0-7	99.78	86 + 1 = 87	86.81
Cicer milkvetch	Lutana	MT	21-0-47	99.99	39 + 52 = 91	90.99
Bitterbrush, Antelope	VNS	ID	V-140845	98.59	63	62.11
Bromegrass, Mountain	Bromar	WA	2221-1	99.80	98	97.80
Fescue, Sheep	Azure	OR	U21-21-35687-2-CTD	98.38	92	90.51
Beardless bluebunch wheatgrass	Whitmar	WA	2173-1	98.42	88 + 5 = 93	91.53
Blue flax	Appar	WA	2027-1	97.29	96	93.40
Penstemon, Rocky Mountain	Bandera	OR	QQ042922-17	99.31	77 + 10 = 87	86.40
Western wheatgrass	Rosana	MT	22-2-21	97.58	93	90.75
Green needlegrass	Lodorm	CAN	19-6-60	99.83	36 + 60 = 96	95.84
Wildrye, Great Basin	Magnar	MT	22-0-12	99.75	84	83.79
Penstemon, Palmer	Cedar	CO	2421	98.15	83	81.46
Thickspike wheatgrass	Critana	MT	22-0-14	98.04	98	96.08
Rabbitbrush, Rubber	VNS	UT	V-131136	59.91	83	49.73
Mountain big sagebrush	VNS	UT	V-131018	48.27	87	41.99
Sandberg bluegrass	High Plains	WA	NBS-LH21-HPS-1	96.59	88	85.00
Sagebrush, Fringed	VNS	CO	V-130798	88.80	90	79.92
Yarrow, Western	Columbia	WA	2039-1	95.39	92	87.76

Lot #	Number of Bags	Bulk Lbs. Per Bag
251204	1	29.28 partial

Common Name	Lot #	Total Bulk Lbs.	Total PLS Lbs.	% Total Bulk Lbs.
Sainfoin	21-0-7	4.65	4.04	15.89
Cicer milkvetch	21-0-47	4.44	4.04	15.16
Bitterbrush, Antelope	V-140845	3.70	2.30	12.64
Bromegrass, Mountain	2221-1	3.10	3.03	10.58
Fescue, Sheep	U21-21-35687-2-CTD	2.23	2.02	7.62
Beardless bluebunch wheatgrass	2173-1	2.21	2.02	7.54
Blue flax	2027-1	1.42	1.33	4.86
Penstemon, Rocky Mountain	QQ042922-17	1.17	1.01	3.99
Western wheatgrass	22-2-21	1.11	1.01	3.80
Green needlegrass	19-6-60	1.05	1.01	3.60
Wildrye, Great Basin	22-0-12	1.04	0.88	3.57
Penstemon, Palmer	2421	0.65	0.53	2.22
Thickspike wheatgrass	22-0-14	0.55	0.53	1.88
Rabbitbrush, Rubber	V-131136	0.80	0.40	2.75
Mountain big sagebrush	V-131018	0.57	0.24	1.95
Sandberg bluegrass	NBS-LH21-HPS-1	0.28	0.24	0.96
Sagebrush, Fringed	V-130798	0.15	0.12	0.51
Yarrow, Western	2039-1	0.14	0.12	0.46
<b>Grand Total Lbs:</b>		<b>29.28</b>	<b>24.86</b>	

Noxious Weeds: aegilops spp.

If you have any questions, please call.

Sincerely,

A handwritten signature in black ink that reads "Miranda McCutchen". The script is cursive and fluid, with the first name "Miranda" and last name "McCutchen" clearly legible.

Miranda McCutchen - 01/22/2024  
Granite Seed - Denver