COLORADO OPERATIONS
Henderson Operations
P.O. Box 68
Empire, CO 80438
Phone (303) 569-3221
Fax (303) 569-2830

March 8, 2023

Sent Via ePermitting Portal

Mr. Peter Hays
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, Colorado 80203

RE: 2022 Annual Report, Henderson Mine and Mill, Permit No M-1977-342

Dear Mr. Hays:

Climax Molybdenum Company (Climax) is submitting its 2022 Colorado Division of Reclamation, Mining and Safety (DRMS) Annual Report and DRMS Annual Report Form for the Henderson Mine and Mill (Permit No. M-1977-342), along with payment for the required annual fee of $1,150.00.

If you have any questions or need additional information, please do not hesitate to contact me at (720) 942-3631.

Sincerely,

Geoff Niggeler
Chief Environmental Engineer
Climax Molybdenum Company
Henderson Operations

Submitted to Portal:

- Payment of $1,150.00
- DRMS Annual Report Form (electronic form)
- Henderson Mine and Mill Annual Reclamation Report (pdf attachment)

1. Henderson Mine

1.1. Disturbance

New disturbance at the Mine in 2022 was limited to incremental caving of the glory hole and exploratory drilling. No changes were made to any of the mine openings (shafts). A site map of the Henderson Mine indicating affected land boundary and disturbance areas is included in Attachment A.

1.2. Interim Reclamation

Interim reclamation was not carried out at the Henderson Mine in 2022.

1.3. Other Activities

1.3.1. Prospecting

The contact person for the Notice of Intent (NOI) and prospecting activities is:

Miguel Hamarat
Environmental Manager
Climax Molybdenum Company
Henderson Operations

P.O. Box 68
1746 County Rd. 202
Empire, CO 80438
(720) 942-3255

A surface drill program was initiated in July 2022 under Notice of Intent (NOI) P-2022-006, known as the Puzzler group. The NOI included the construction of one (1) drill pad and a corresponding access road. The drill pad and access road are shown on the location figure included in Attachment A. During the summer of 2022, one (1) borehole was drilled under the Puzzler claim, which was sealed and capped in late fall.

1.3.2. Weed Control

Habitat Management, Inc., a licensed commercial pesticide applicator, performed weed management in 2022. Similar to past years, the mine property was thoroughly inspected for listed noxious weeds species. Henderson Mine received two weed treatments throughout the 2022 growing season, in July and August. Approximately 250 acres were inspected during each visit for a total of 490 acres inspected. Of the 490 acres inspected, 1.82 acres was spot treated where necessary. The two treatments covered the following areas: access roads and roadsides between the Mine and URAD, and perimeters of surface shops and surface buildings at both Mine and URAD.

These areas were treated for the following noxious weeds: Bull thistle, Canada thistle, Mayweed chamomile, Musk thistle, Oxeye daisy, Yellow toadflax, and Common mullein were treated throughout the mine facilities. Herbicide applications were spot-applied to targeted weed species.

The herbicides used for treatment include: Weedar 64 (2,4-D Amine), Ranger Pro (Glyphosphate), Opensight, Freelexx, Viewpoint, and Milestone. Ranger Pro and Viewpoint were applied to the perimeter of the surface shop buildings, breaker boxes, transformer building, gas station, substations, exhaust fans, and office building. Loctite MSO was utilized as a surfactant and Hi-Light blue marker dye was added to applications to allow greater visibility of treated areas.

1.3.3. Water Quality Data

2022 water quality data will be provided in the Annual Water Quality Data Report, due to the DRMS by May 31, per the approved Groundwater Management Plan (TR-16).

2. Henderson Mill

2.1. Disturbance

The Mill disturbances for 2022 included only the area inundated by the continuous tailing impoundment rise. A site map of the Henderson Mill indicating affected land boundary and disturbance areas is included in Attachment A.

2.2. Interim Reclamation

Interim reclamation was not carried out at the Henderson Mill in 2022.

2.3. Other Activities

2.3.1. Weed Control

Habitat Management, Inc., a licensed commercial pesticide applicator, performed weed management in 2022. Similar to past years, the mill property was thoroughly inspected for listed noxious weeds species. Henderson Mill received three weed treatments throughout the 2022 growing season, in July, August and October. Approximately 1,500 acres were inspected and 29 acers was spot treated where necessary. The three treatments covered the following areas: Surrounding the tailings impoundment access roads, roadsides and outlying buildings; the gravel pit, north topsoil stockpile area, including the Borrow pit and Ute Park; and non-industrial areas north of the tailings impoundment along Lost Creek.

These areas were treated for the following noxious weeds: Bull thistle, Canada thistle, Houndstongue, Mayweed chamomile, Musk thistle, Oxeye daisy, Yellow toadflax, Common mullein. Herbicide applications were spot-applied to targeted weed species.

The herbicides used for treatment include: Weedar 64 (2,4-D Amine), Opensight, Trophy Gold, Vastlan, and Telar XP. Loctite MSO was utilized as a surfactant and Hi-Light blue marker dye was added to applications to allow greater visibility of treated areas.

2.3.2. Water Quality Data

Water quality data will be provided in the Annual Water Quality Report, due to the DRMS by May 31, per the approved Groundwater Management Plan (TR-16).

2.3.3. Flood Storage Capacity

Analysis of flood storage capacity in the Mill tailings impoundment was carried out by W.W. Wheeler, per DRMS requirements stipulated for Technical Revision TR-14. This analysis is included as Attachment B.

2.3.4. 3-Dam Seepwater Line Leak-Down Test

The annual 3-Dam seepwater line leak-down test for 2022, per DRMS requirements stipulated in TR-09, was completed on November 8th, 2022. The main seepwater line held static pressures

over a 24-hour period, as designed. The backup seepwater line, discharge valve leaked at the discharge point below 1-dam leading to an invalid test. A maintenance workorder was written, new valves ordered, and will be replaced and retested in the spring of 2023. See test report in Attachment C.

2.3.5. 1-Dam Tailings Delivery Line Raise

As part of the continuous tailings impoundment raise, the tailings delivery line (TDL) is required to be mechanically raised upstream periodically to maintain operational hydraulics within the delivery system. Starting in May 2022, the crest berm, abutment contact points, and ultimately the location of the TDL was moved upstream and uphill. Reconfiguration activities were completed in October 2022.

2.3.6. Tailings Impoundment Reclamation Test Plots

As part of the ongoing efforts to develop a viable closure plan for the tailings impoundment, Henderson completed construction of reclamation soil test plots on the beach tailings sands in 2022. The project started in 2021 with construction of a protective berm around an area on the north side of the tailings beach to protect the test plots from becoming inundated with future tailings deposition and was completed in October of 2022.

2.3.7. Tailing Storage Facility Annual Report

AECOM, the engineer of record for the Henderson Mill Tailing Storage Facility (TSF), has provided a letter that contains observations, updates on projects, and any recommendations to ensure the TSF is operated and maintained properly. The report is included in Attachment D.

3. Anticipated 2023 Activities

3.1. Prospecting

No prospecting activities are currently planned for 2023. However, additional drilling at the Puzzler NOI is currently anticipated in 2024.

3.2. 3-Dam Buttress

Engineering for Phase 3 of the 3-Dam Buttress has commenced and will likely be completed in 2023, followed by a TR request. Construction is anticipated to commence in 2024.

3.3. Gravel Pit

Areas near the entrance of the gravel pit will continue to be used to stockpile materials delivered for the 3-Dam Buttress Project, roadway improvements, or emergency erosion control aggregates.

3.4. Reclamation

No reclamation is planned for calendar year 2023.

3.5. Tailings Impoundment Reclamation Test Plots

As part of the ongoing efforts to develop a viable closure plan for the tailings impoundment, Henderson will continue construction of reclamation test plots on the tailings dam face in 2023. Soil and vegetation performance monitoring will be ongoing for an anticipated 5-10 years into the future.

3.6. Permit Amendment 08

Henderson is planning to increase the affected land boundary [southeast of 1-Dam] to construct roads and other infrastructure to support planned ground water monitoring wells. The additional access and infrastructure would supplement the existing water quality management program already established in this area. The amendment application is anticipated to be submitted in early 2023 with planned road improvements in the summer of 2023 and beyond.

4. Financial Warranty

The approved closure cost estimate for Henderson Operations is $171,125,253. On October 1, 2020, Henderson proposed to have the financial warranty for these costs comprised of a combination of corporate surety bonds, a letter of credit, water rights and real property assets. Pursuant to Division approval, Henderson currently maintains a financial warranty of $141,656,674 in the form of corporate surety bonds, a letter of credit and water rights assets. Henderson's proposal to add the remaining $29,468,579 in the form of land and water rights assets is currently under consideration by the Division and Henderson is working with the Division to obtain approval from the MLRB. Updated valuations for water rights currently held in the financial warranty were included in the October 2020 package and show that the assets have increased in value.

Attachment A

Site Maps

Ranger Gulch Topsoil Stockpile

North Topsoil Stockpile

Tailings Impoundment

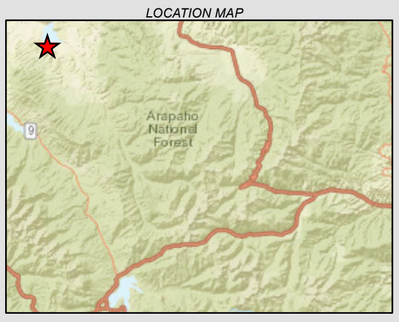
Mill

Portal

Williams Fork River

0 750 1,500 3,000 4,500 6,000 Feet

LOCATION MAP



MAP FEATURES

- PROPERTY BOUNDARY
- DISTURBANCE AREA
- XCEL ENERGY EASEMENT
- TAILINGS IMPOUNDMENT
- LAKE / POND
- EXISTING TOPSOIL STOCKPILES
- PLANNED TOPSOIL STOCKPILES
- RECLAMATION AREAS
- BUILDING
- UNIMPROVED ROAD
- IMPROVED ROAD
- CONVEYOR
- TRAIL
- PERENNIAL STREAM
- INTERMITTENT STREAM
- ULTIMATE INTERCEPTOR CANAL
- GRAVEL PIT
- AFFECTED LAND BOUNDARY

Contour Interval: 25 feet

REVISION	DATE	AUTHOR
Revised for 2011 Annual Report	2/22/12	MT
Updated for 2012 Annual Report: Added Ranger Gulch Topsoil Stockpile & Gravel Pit	2/26/13	MT
Revised for 2013 Annual Report	2/27/14	MT
Revised for 2014 Annual Report	2/24/2015	MT
Updated dates for 2015 Annual Report	2/29/2016	MT
Updated dates for 2016 Annual Report	3/3/2017	TH
Updated dates and imagery	3/4/2019	AP
Updated dates for 2020 Annual Report	3/3/2021	MT
Updated dates for 2021 Annual Report	3/1/2022	MT

Climax Molybdenum
A Freeport-McMoRan Company
HENDERSON OPERATIONS
1746 County Road
Empire, Colorado 80438

HENDERSON MILL

MLRB Permit No. M-77-342
Annual Reclamation Report
March 1, 2022

Aquionix EHS Services
5545 W. 56th Ave
Arvada, CO 80002
303-289-7520
www.aquionix.com

DESIGNED BY:
DRAWN BY: MT(Aquionix)
DATE DRAWN: 3/4/11

SCALE: 1:20,000

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LOCATION MAP

MAP FEATURES

- DISTURBED AREA
- TOPSOIL STOCKPILES
- RECLAMATION AREAS
- LAKE / POND
- BUILDING
- ROAD
- PROPERTY BOUNDARY
- AFFECTED LAND BOUNDARY
- STREAM / DITCH
- DENVER WATER DEPT.

Contour Interval: 50 feet

REVISION	DATE
Revised for 2011 Annual Report	2/22/12
Revised for 2012 Annual Report	2/27/13
Revised for 2013 Annual Report	2/26/14
Revised for 2014 Annual Report	2/24/15
Revised for 2015 Annual Report	3/4/16
Revised for 2016 Annual Report	3/3/2017
Updated dates and imagery	3/4/2019
Revised for 2020 Annual Report	3/4/2021
Revised for 2021 Annual Report	3/1/2022

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1746 County Road
Empire, Colorado 80438

HENDERSON MINE

MLRB Permit No. M-77-342
Annual Reclamation Report
March 1, 2022

DESIGNED BY:

DRAWN BY: MT/KV (Aquionix)

DATE DRAWN: 8/7/2017

SCALE: 1:4,800

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CONCEPTUAL PLAN
1 June 2022

N

S18°15'E 18.16 (1198.56')

N71°10'E 22.75 (1501.50')
PROPERTY LINE

18

19

N35°E

S18°47'E 13.15 (867.90')
PROPERTY LINE

HENDERSON MINE PROPERTY

FOREST SERVICE PROPERTY

PROPOSED DRILL PAD - 50' X 90'
LOCATION APPROXIMATE

PROPOSED SUMP -
10' x 20' x3'DEEP

N35°W

EXISTING TAILINGS

PROPOSED 2'H X 5'W
SAFETY BERM

PROPOSED
CULVERT AND
ROCK CHECK
(SEE DETAIL,
SHEET 2)

DISTURBANCE AREA = 0.57 AC

PUZZLER MINE

PROPOSED ROAD
16.25% AVE GRADE
688 FT

END ALIGNMENT
N160607.926
E1909946.119
EL10198.52

20

S41°26'W
3.40 (224.40')

HN-1

PROPOSED
CULVERT AND
ROCK CHECK
(SEE DETAIL,
SHEET 2)

20' X 12"Ø STRAW WATTLE
W/STAKES OR PARTIALLY
BURIED TIMBER ALONG
ENTIRE LENGTH OF ROAD

21

S50°41'E
9.09 (599.94')
PROPERTY LINE

BM EL 9874 LAT
39.7577 LON
105.8097

CP-907

C.R. 202

ER LINES

BEGIN ALIGNMENT
N160258.308
E1909228.038
EL10060.477

BERTHOUD FALLS
U.S. 40 1 Mi.
DENVER 41 Mi.

BOUNDARY USFS EXCHANGE No. 377

N41°26'E
1.07 (70.62')

23

22

S54°53'E
6.01 (396.66')

C.R. 203
TO URAD

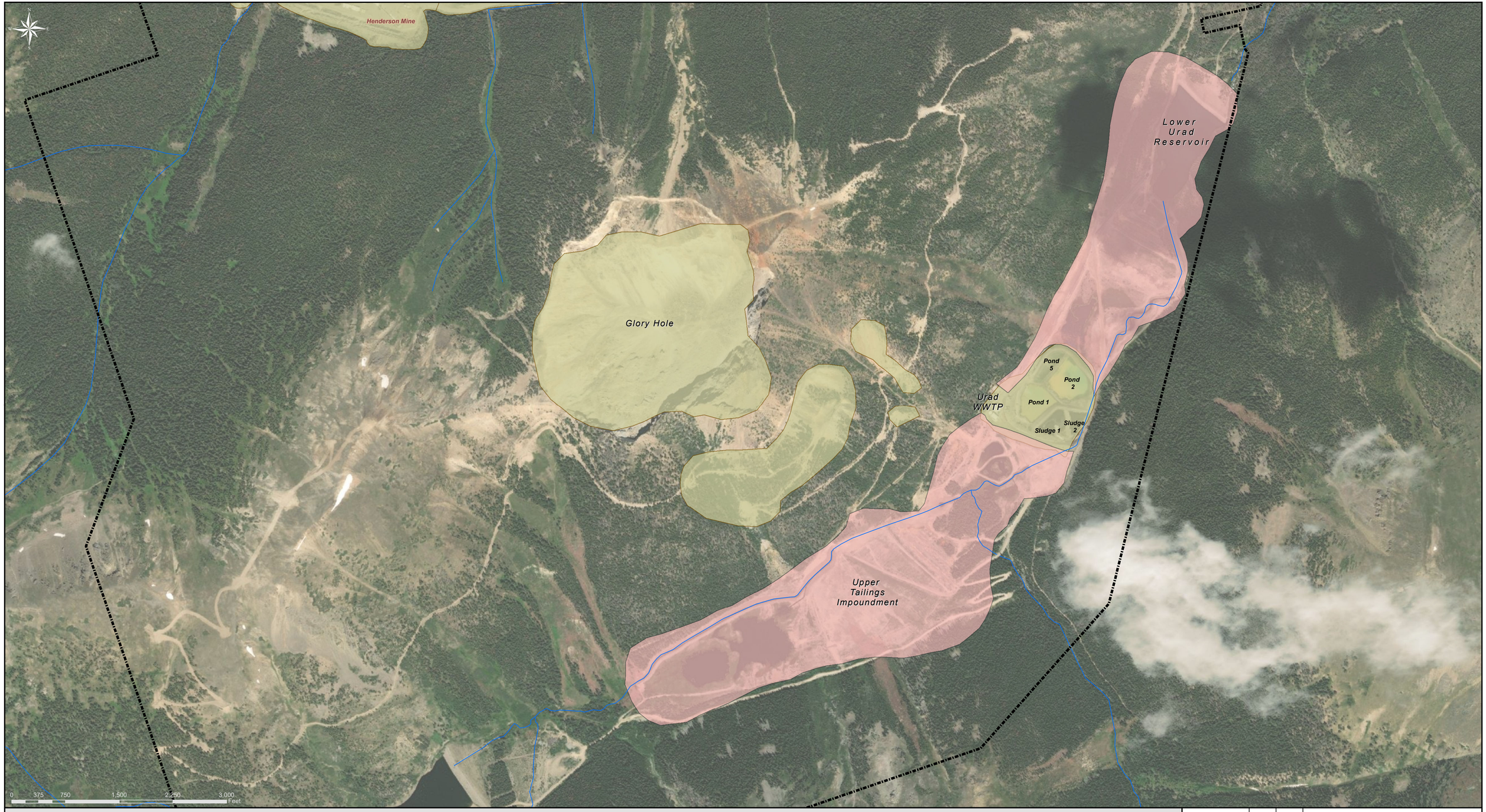
DWG. #	REFERENCE DRAWINGS		DESCRIPTION OF REVISION	DATE	BY	APPR	DEPARTMENT APPROVALS			
		0	CONCEPTUAL PLAN APPROVED	5/5/22	JS	JLF			ENGR: JLF	1/13/22
		1	REVISE ROAD LOCATION	6/1/22	JS				DRAWN BY: JS	1/13/22
		2							CHECKED BY: BDR	5/5/22
		3							APPROVED BY: JLF	5/5/22
		4							APPROVED BY:	
							SCALE: 1' = 170' APRROXIMATE		SAFETY APP BY:	

HENDERSON OPERATIONS
Climax Molybdenum
A Freeport-McMoRan Company
EMPIRE / PARSHALL, COLORADO
303-569-3221

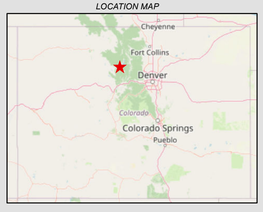
MINE SITE SURFACE
PUZZLER MINE
PROPOSED DRILL ROAD
PLAN VIEW

2-2-9020 | SHT 1 OF 2 | REV. 1

I:\DRAWINGS\2-MINE SITE SURFACE\2-EXCAVATION DETAILS(CIVIL)\9-GENERAL LOCATIONS\2-2-9020 PUZZLER MINE PROPOSED DRILL ROAD.dwg, 6/20/2022 7:46:30 AM



LOCATION MAP



MAP FEATURES

- DISTURBED AREA
- TOPSOIL STOCKPILES
- RECLAMATION AREAS
- LAKE / POND
- BUILDING
- ROAD
- PROPERTY BOUNDARY
- STREAM / DITCH

REVISION	DATE	AUTHOR
Developed in ArcGIS for 2011 Annual Report	2/17/12	MT
Revised for 2012 Annual Report	2/28/13	MT
Revised for 2013 Annual Report	2/26/14	MT
Revised for 2014 Annual Report	2/24/15	MT
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HENDERSON MINE - URAD

MLRB Permit No. M-77-342
Annual Reclamation Report
March 1, 2022

DESIGNED BY:

DRAWN BY: MT (Aquionix)

DATE DRAWN: 2/17/2012

SCALE:1:7,500

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Attachment B

Mill Tailing Impoundment
Flood Storage Capacity Analysis

W. W. WHEELER
& ASSOCIATES, INC.
Water Resources Engineers
WWW.WWWHEELER.COM

February 9, 2023

Mr. Miguel Hamarat
Climax Molybdenum Company, Henderson Mine
1746 County Road 202
Empire, CO 80438

Re: ***#1333.0 - Henderson Mill***
TSF Flood Storage

Dear Miguel:

As requested, we have evaluated the availability of flood storage capacity in the Henderson tailing storage facility (TSF) using information from the pond surveys. The fall survey of the beach and pool area was performed in October and November. Figure 1 is the pond contour map that was generated by Wheeler from the fall survey point data. The survey shows that the average dam crest elevation of 1 Dam at the end of the spigot deposition season is about 8887.8 feet, which is a 1.6-foot increase from last year. The minimum elevation surveyed along the dam crest was 8886.9 feet. This information, as well as other characteristics of the TSF, is summarized in the table in the upper right-hand corner of the TSF map drawing. Table 1 and Figure 2 is the elevation-capacity data for the impoundment that was generated from the fall 2022 contour map. Note that this data is representative of the TSF at the time of the pool survey and changes continuously as additional tailing is deposited.

One of the primary uses of the survey data is to evaluate the flood storage capacity conditions in the water system. As summarized on Figure 1, at the approximate time of the fall survey there was a total system surcharge storage capacity of about **10,923 acre-feet** in the system. This capacity includes both the TSF and East Branch Reservoir and is based on 0.5 feet of residual freeboard below the minimum dam crest elevation of 8,886.9' and a October 31st water level of 8,872.7 feet. The flood storage requirement for the system is **3,582 acre-feet**. This requirement is based on hydrologic modeling of the probable maximum precipitation (PMP) event. The available flood storage capacity in the system at

3700 S. Inca Street | Englewood, CO 80110-3405
303-761-4130 | fax 303-761-2802

the time of the survey significantly exceeds the storage requirement. However, this excess capacity will decrease throughout the coming year as additional inflows to the system occur and a portion of the storage space is filled with deposited tailing.

A relatively accurate determination of the flood storage capacity in the impoundment can be made at the time of the spring and fall pond surveys. An operations model has been developed to track water levels and estimate the flood storage availability in the system between surveys. This model is updated by Wheeler on a monthly basis. One of the reports generated by this model is the attached TSF Water Level Report (Figure 3). This graph shows the actual water level in the TSF as compared to the flood pool level in the pond, which is defined as the level corresponding to 3,582 acre-feet of available capacity. Note that the actual water level did not exceed the flood pool level at any time in 2022. This shows that the required flood storage space was maintained in the system throughout the 2022 calendar year.

If you have any questions regarding the enclosed information, or if you require additional information, please call.

Sincerely,
W. W. Wheeler and Associates, Inc.

Steven M. Maly, P.E.

CC: Geoff Niggeler, Henderson Mill (via e-mail)
Ron Hickman, Henderson Mill (via e-mail)
Aaron Hilshorst, Freeport McMoRan (via e-mail)
Sam Saunders, Freeport McMoRan (via e-mail)

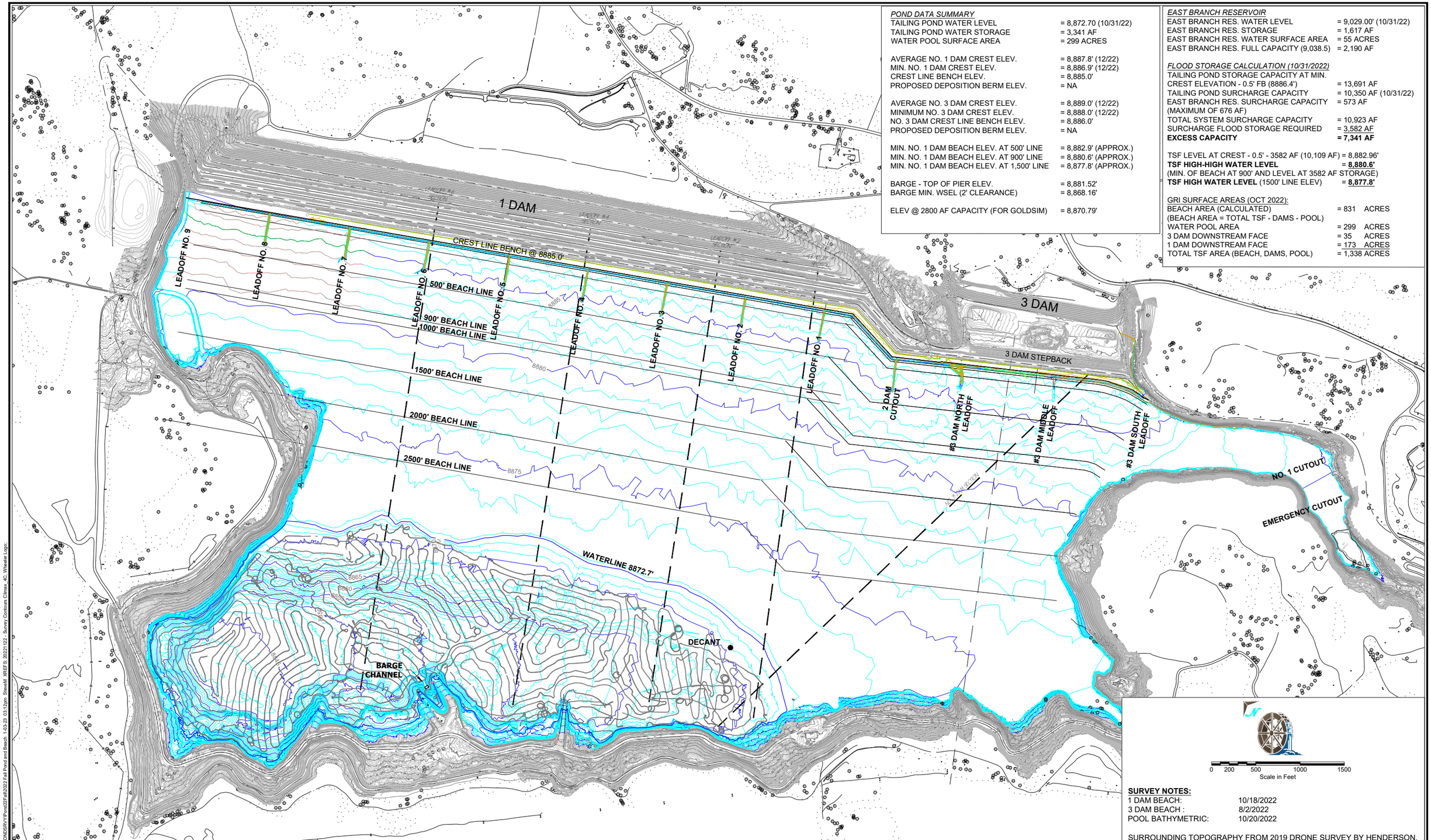
TABLE 1
Henderson TSF
Elevation-Area-Capacity

Survey Data:

Bathymetric	10/20/2022
1 Dam Beach	10/18/2022
3 Dam Beach	8/2/2022

Elevation-Area-Capacity Table				Beach Width	Beach Width	Beach Width	Beach Width
Water Elevation	Surface Area		Storage Capacity	#4 LO	#6 LO	3-Dam	Minimum
(feet)	(sq. ft.)	(acres)	(ac-ft)	(ft)	(ft)	(ft)	(ft)
8,843.0	0	0.00	0.0	3650+	3690+	4950+	
8,844.0	374,828	8.60	4.3	3650+	3690+	4950+	
8,845.0	819,774	18.82	18.0	3650+	3690+	4950+	
8,846.0	1,146,092	26.31	40.6	3650+	3690+	4950+	
8,847.0	1,396,258	32.05	69.8	3650+	3690+	4950+	
8,848.0	1,600,585	36.74	104.2	3650+	3690+	4950+	
8,849.0	1,790,790	41.11	143.1	3650+	3690+	4950+	
8,850.0	1,966,009	45.13	186.2	3650+	3690+	4950+	
8,851.0	2,162,012	49.63	233.6	3650+	3690+	4950+	
8,852.0	2,386,483	54.79	285.8	3650+	3690+	4950+	
8,853.0	2,637,264	60.54	343.5	3650+	3690+	4950+	
8,854.0	2,945,416	67.62	407.5	3650+	3690+	4950+	
8,855.0	3,202,564	73.52	478.1	3650+	3690+	4950+	
8,856.0	3,484,132	79.98	554.9	3650+	3690+	4950+	
8,857.0	3,720,535	85.41	637.6	3650+	3690+	4950+	
8,858.0	3,993,008	91.67	726.1	3650+	3690+	4950+	
8,859.0	4,450,946	102.18	823.0	3650+	3690+	4950+	
8,860.0	4,894,396	112.36	930.3	3650+	3690+	4950+	
8,861.0	5,271,880	121.03	1,047.0	3650+	3690+	4950+	
8,862.0	5,719,250	131.30	1,173.2	3650+	3690+	4950+	
8,863.0	6,155,201	141.30	1,309.5	3650+	3690+	4950+	
8,864.0	6,594,013	151.38	1,455.8	3650+	3690+	4950+	
8,865.0	7,064,474	162.18	1,612.6	3650+	3690+	4950+	
8,866.0	7,554,364	173.42	1,780.4	3650+	3690+	4950+	
8,867.0	8,003,089	183.73	1,958.9	3650+	3690+	4950+	
8,868.0	8,556,885	196.44	2,149.0	3650+	3690+	4950+	
8,869.0	9,643,012	221.37	2,357.9	3,584	3,566	4950+	
8,870.0	10,946,031	251.29	2,594.3	3,397	3,428	4950+	3,370
8,871.0	11,820,047	271.35	2,855.6	3,284	3,261	4950+	3,240
8,872.0	12,412,709	284.96	3,133.7	3,178	3,201	4,867	3,178
8,873.0	13,265,031	304.52	3,428.5	3,057	3,099	4,702	3,050
8,874.0	17,351,924	398.35	3,779.9	2,718	2,490	4,047	2,490
8,875.0	21,114,470	484.72	4,221.4	2,319	2,299	3,698	2,130
8,876.0	24,650,686	565.90	4,746.8	2,189	2,030	3,160	1,910
8,877.0	27,619,514	634.06	5,346.7	1,897	1,769	2,878	1,670
8,878.0	29,985,855	688.38	6,008.0	1,654	1,573	2,425	1,430
8,879.0	32,617,372	748.79	6,726.5	1,377	1,306	2,206	1,210
8,880.0	34,988,875	803.23	7,502.6	1,120	1,099	1,787	1,000
8,881.0	37,293,890	856.15	8,332.2	950	839	1,442	800
8,882.0	39,343,084	903.19	9,211.9	721	709	1,204	628
8,883.0	41,662,689	956.44	10,141.7	557	584	1,037	480
8,884.0	43,811,880	1,005.78	11,122.9	443	415	831	330
8,885.0	46,423,502	1,065.74	12,158.6	344	304	653	182
8,886.0	48,002,966	1,102.00	13,242.5	196	203	500	80
8,887.0	49,503,142	1,136.44	14,361.7	113	62	306	0
8,888.0	50,396,386	1,156.94	15,508.4	5	9	98	
8,889.0	50,794,420	1,166.08	16,669.9	3	7	5	
8,890.0	51,013,785	1,171.12	17,838.5	1	6		

* All other values are interpolated from this table.



POND DATA SUMMARY

TAILING POND WATER LEVEL	= 8,872.70 (10/31/22)
TAILING POND WATER STORAGE	= 3,341 AF
WATER POOL SURFACE AREA	= 299 ACRES
AVERAGE NO. 1 DAM CREST ELEV.	= 8,887.8' (12/22)
MIN. NO. 1 DAM CREST ELEV.	= 8,886.9' (12/22)
CREST LINE BENCH ELEV.	= 8,885.0'
PROPOSED DEPOSITION BERM ELEV.	= NA
AVERAGE NO. 3 DAM CREST ELEV.	= 8,889.0' (12/22)
MINIMUM NO. 3 DAM CREST ELEV.	= 8,888.0' (12/22)
NO. 3 DAM CREST LINE BENCH ELEV.	= 8,886.0'
PROPOSED DEPOSITION BERM ELEV.	= NA
MIN. NO. 1 DAM BEACH ELEV. AT 500' LINE	= 8,882.9' (APPROX.)
MIN. NO. 1 DAM BEACH ELEV. AT 900' LINE	= 8,880.6' (APPROX.)
MIN. NO. 1 DAM BEACH ELEV. AT 1,500' LINE	= 8,877.8' (APPROX.)
BARGE - TOP OF PIER ELEV.	= 8,881.52'
BARGE MIN. WSEL (2' CLEARANCE)	= 8,868.16'
ELEV @ 2800 AF CAPACITY (FOR GOLDSIM)	= 8,870.79'

EAST BRANCH RESERVOIR

EAST BRANCH RES. WATER LEVEL	= 9,029.00' (10/31/22)
EAST BRANCH RES. STORAGE	= 1,617 AF
EAST BRANCH RES. WATER SURFACE AREA	= 55 ACRES
EAST BRANCH RES. FULL CAPACITY (9,038.5)	= 2,190 AF

FLOOD STORAGE CALCULATION (10/31/2022)

TAILING POND STORAGE CAPACITY AT MIN. CREST ELEVATION - 0.5' FB (8886.4')	= 13,691 AF
TAILING POND SURCHARGE CAPACITY	= 10,350 AF (10/31/22)
EAST BRANCH RES. SURCHARGE CAPACITY (MAXIMUM OF 676 AF)	= 573 AF
TOTAL SYSTEM SURCHARGE CAPACITY	= 10,923 AF
SURCHARGE FLOOD STORAGE REQUIRED	= 3,582 AF
EXCESS CAPACITY	**= 7,341 AF**

TSF LEVEL AT CREST - 0.5' - 3582 AF (10,109 AF) = 8,882.96'
TSF HIGH-HIGH WATER LEVEL = **8,880.6'**
(MIN. OF BEACH AT 900' AND LEVEL AT 3582 AF STORAGE)
TSF HIGH WATER LEVEL (1500' LINE ELEV) = **8,877.8'**

GRI SURFACE AREAS (OCT 2022):

BEACH AREA (CALCULATED)	= 831 ACRES
(BEACH AREA = TOTAL TSF - DAMS - POOL)	
WATER POOL AREA	= 299 ACRES
3 DAM DOWNSTREAM FACE	= 35 ACRES
1 DAM DOWNSTREAM FACE	= 173 ACRES
TOTAL TSF AREA (BEACH, DAMS, POOL)	= 1,338 ACRES

0 200 500 1000 1500
Scale in Feet

SURVEY NOTES:

1 DAM BEACH:	10/18/2022
3 DAM BEACH :	8/2/2022
POOL BATHYMETRIC:	10/20/2022

SURROUNDING TOPOGRAPHY FROM 2019 DRONE SURVEY BY HENDERSON.

REVISIONS

NO.	DATE	MADE BY	CKD. BY	REMARKS
△				
△				
△				
△				
△				
△				
△				

REFERENCE DWGS

DRAWING NO.	REFERENCE

Climax Molybdenum
A Freeport-McMoRan Company

W. W. WHEELER & ASSOCIATES, INC
Water Resources Engineers
3700 S. Inca Street
Englewood, CO 80110-3405
303-761-4130
FAX 303-761-2802

HENDERSON MILL TAILINGS STORAGE FACILITY	Climax Molybdenum Henderson Mill, Parshall, CO		
BEACH AND POND SURVEY	SAA	10/22	SCALE: AS NOTED
FALL 2022 SURVEY	CHECKED BY: SMM	10/22	DRAWING NO.: FIGURE 1 △
DATES: SEE SURVEY NOTES	ACCEPTED BY: ---		

R:\13001\333\1333.00\PROJECTS\PONDS\RVY\Pond2\Fall2022 Fall Pond and Beach 1-03-23 03:12pm SteveM XREFS 20221122 - Survey Contours Climax -4C- Wheeler Logo

Figure 2 - Henderson TSF
Elevation Area Capacity

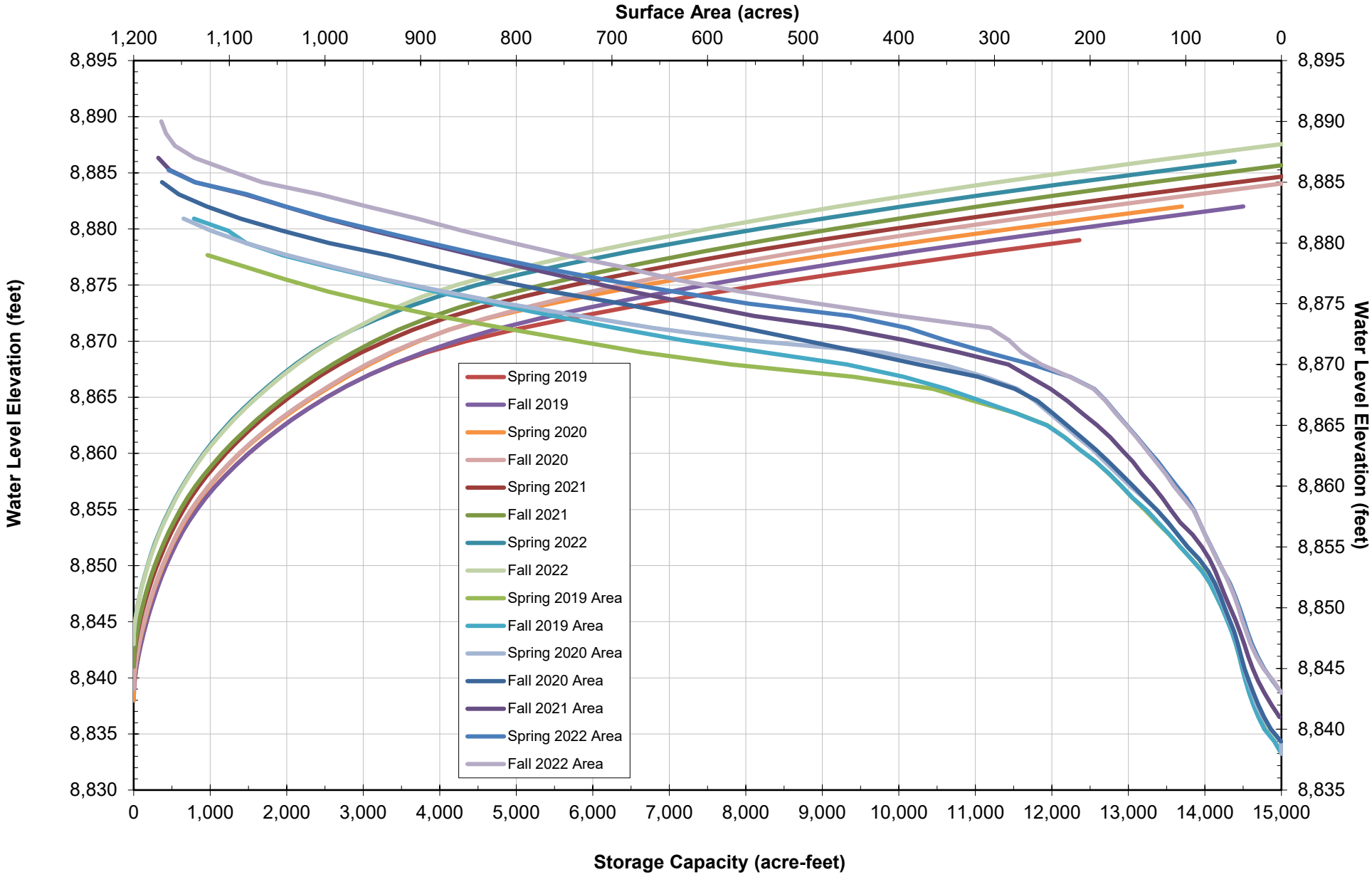
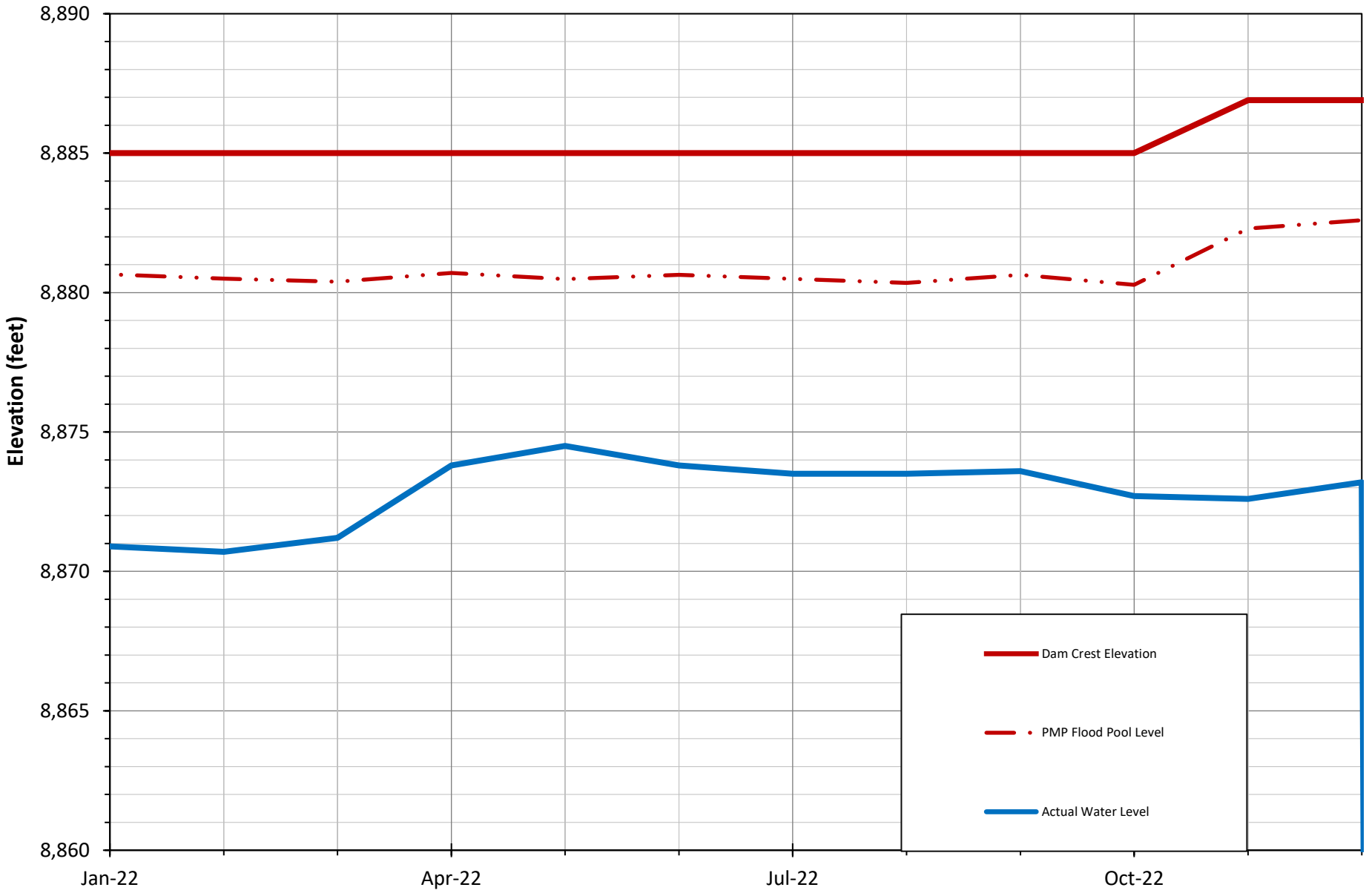


Figure 3 Henderson TSF
Water Pool Level Tracking



Attachment C

3-Dam Seep Water Return Line Leak-down Test Results

RT-McMoRan

ORDER 400013525675

Henderson

	111501DA03	**Equipment:**	100000008159	**Equipment Description:**	TAILINGS DAM #3
Center:	2402001111	**Functional Location:**	HE-2-MI-C8-TC-1866	**Functional Location Description:**	TAILINGS DAMS
Main Work Center:	4600P	**Serial No.:**		**PM Activity Type:** PCM	**Order Type:** MN03
Start Date:	06/01/2022	**End Date:**	06/03/2022	**Priority:** 3	**Originator:** IP1020220510
Description:	PM LEAK DOWN TEST 3 DAM SEEP H2O 1YR				
Person Responsible:		**Person Responsible Description:**			

Failure Information	Check	Comments
Maintenance Rework		
Incident or Accident		
Exceeding Design Parameters		COMPLETED
Poor Operational Practice		
Normal Wear and tear		

FOLLOW ALL SAFETY INSTRUCTIONS RELATED TO EACH OPERATION

Operation Description

Operation	Sub-Op	Work Center	Operation Description	Act. No. People	Act. Hrs.	Act. Dur.	Comp Date
10		4600P	PM LEAK DOWN TEST 3 DAM SEEP H2O 1YR	1	2		11/8/22

Long Text

PM LEAK DOWN TEST 3 DAM SEEP H2O 1YR
SUPERCEDES: 7/16/20
SUPERVISER APPROVAL: TnT Supervisor
LAST REVEIW DATE: 7/16/20
MAINT PLAN: 7000000912
==========

PROVIDE COPIES TO THE CHEIF ENVIRONMENTAL ENGINEER AND THE TnT SUPERVISOR UPON COMPLETEION.

==========

1. ✓ Set up Sterling and a sump pump at 3 Dam pump vault. Pump out vault as needed throughout test.
2. ✓ Shut power off to pump in lift station.
3. ✓ Shut off ball valves in manhole on west side of road beside I-70 gate and next to the yellow light.
4. ✓ Close discharge valve for drain line and overflow line.
5. ✓ Fill drain and overflow line with 740 water truck. Use clean water from the water tower.

FREEPORT-McMoRan

ORDER 400013525675

Henderson

6. ✓ Check discharge valves and stand pipes for leaks.

7. ✓ Lock valves (intake and discharge) and read pressure gauge at the discharge valves.

Drain Line Pressure 11/7 Date/Time 75 PSI

Overflow Line Pressure 11/7 Date/Time 70 PSI

8. ✓ Wait 24 hours and recheck the pressure gauge.

Drain Line Pressure 11/8 Date/Time 75 PSI

Overflow Line Pressure 11/8 Date/Time leaking

9. ✓ If there is not a drop in pressure over 24 hours remove the locks. Open the intake valves first, then the discharge valves. Open the ball valve to the overflow pipe. Restart the 3 Dam seep pump system. If pressure does drop report drop to supervision.

10. ✓ All machine guards are in good condition, have no open holes and are properly installed.

11. ✓ Pickup area after PM is done. Ensure housekeeping is in good order.

12. ✓ Write WO for any problems found

Completion Comments Suggest ordering new valve O.F. Dis		
Completed by : Print Name JEJ	**Signature** 053138	**Date Completed** 11/8/22
Supervisor Reviewer : Print Name	**Signature** Jake Lucero	**Date Completed** 11/09/22

MATERIALS

Operation	Component	Description:	Qty	UOM	IC	SS	Location

RETURN MATERIALS

Quantity	Stock or Part	Description:	Name

FOLLOW ALL SAFETY INSTRUCTIONS RELATED TO EACH OPERATION

Attachment D

Henderson Mill Tailing Storage Facility Annual Report

AECOM
7595 Technology Way
Suite 200
Denver, CO 80237
www.aecom.com

303-694 2770 tel
303 694 3946 fax

February 18, 2023

Mr. Ron Hickman
Climax Molybdenum Company- Henderson Mill
19302 County Road 3
Parshall, CO 80458

Subject: Rev A, Annual (Year 2022) Tailings Storage Facility Evaluation, Henderson Tailings Storage Facility, Permit No. M-1977-342, Henderson Mill, Colorado

Dear Ron:

AECOM, through its legacy company URS Corporation, serves as the Engineer of Record (EOR) for the Climax Molybdenum Company's Henderson Tailings Storage Facility (TSF) comprised of two dams identified as1 Dam and 3 Dam, located at Henderson Mill in Grand County. AECOM has prepared this summary of our Annual (2022) TSF Evaluation as requested. Presented below is a summary of key observations made during 2022.

Leadoff or cutout deposition occurred at the Henderson TSF from January to May and in November through December. Spigot deposition at Henderson TSF generally occurred from May 11 to November 11, 2022.

AECOM completed full monthly site inspections of the TSF from May to October 2022. The reviews included meeting with operations personnel and reviewing production and operational logistics, operational plans, tailings management challenges, and future plans for operating the dams. Our site visits included reviewing tailings dam instrumentation, specifically reviewing piezometric elevations and inclinometer data, as available. We also completed a monthly walking tour of the dam observing the active and inactive tailings beach, dam crest, abutments, downstream slope, and toe area. We also conducted a review of the horizontal and foundation drain outfalls, as accessible and applicable.

In 2022, a major project completed by Henderson mill personnel was construction of the 1 Dam Crest Raise. The 3 Dam Crest Raise had been completed in 2021. As part of normal operations, the crest is raised upstream as required to maintain hydraulic performance of the tailings delivery line. The project involved constructing the next crest raise approximately 70 ft upstream and relocating the tailings delivery line to the new crest road.

No significant issues were identified in 2022 during the EOR site visits. Any maintenance issues during the EOR site visits were discussed with the Henderson tailings operations staff and corrective action plans were developed and implemented.

The Henderson TSFs appear to be functioning as designed and within the established design criteria. This judgment is based on observations made during site visits, as well as information provided and reported by Henderson tailings operations staff such as deposition quantity, water surface elevations, and other parameters that are reviewed by AECOM on a monthly basis.

The remote monitoring system provides continuous monitoring of piezometric elevations. The system incorporates alarms based on piezometric elevation changes identified as either rate of change or

threshold exceedances. Rate of change alarms are triggered when predetermined elevation changes occur over a prescribed period of time. Action levels and threshold elevations are specific to individual piezometers. Threshold levels are established based on the results of slope stability analyses and provide redundant warnings should piezometric elevations rise above prescribed predetermined elevations. The monitoring system triggers alarms requiring immediate review.

AECOM reviews the piezometric data monthly on both 1 Dam and 3 Dam. Piezometers levels are tracking in accordance with the design. AECOM reviewed the annual inclinometer data and found movement within the tolerance expected as part of tailings dam construction.

Continued diligence in monitoring embankment construction, decant pond level, and instrumentation is essential to long term safety and performance of the structure. Correct operation of the tailings storage facility is essential, and it is incumbent upon Henderson to maintain proper training and personnel. AECOM will continue to work with the Henderson team to monitor the performance of the TSF.

AECOM represents that our services are performed within the limits prescribed by the Client in a manner consistent with the level and skill ordinarily exercised by other consultants under similar circumstances. No representation to the Client, expressed or implied, and no other warranty or guarantee is included or intended.

Please do not hesitate to call us with any questions or comments.

Sincerely,

Lisa R. Yenne, PE
Project Manager