



**Montana Resources, LLC**  
600 Shields Ave.  
Butte, Montana  
USA 59701

(406) 496-3200  
(406) 723-9542 Fax  
[www.montanaresources.com](http://www.montanaresources.com)

November 29, 2023

Jamin Grantham  
Field Services Section Supervisor  
Air Quality Bureau  
Montana Department of Environmental Quality  
[jamin.grantham2@mt.gov](mailto:jamin.grantham2@mt.gov)

RE: Summer Seasonal Emissions Inventory and Summary Report of Summer Seasonal  
Production Limitations for March – October of 2023

Dear Mr. Grantham:

Please find enclosed the 2023 Summer Seasonal Emissions Inventory for Montana Resources, LLC. Also included is a Summary Report listing the maximum seasonal production limitations and the actual seasonal production achieved during the months from March through October. These reports are to be delivered to the DEQ by November 30<sup>th</sup> of each year as per Air Quality Permit #1749-14 issued in July 2022.

If you have any questions, please contact me at 496-3205, or Mark Thompson at 496-3211.

Sincerely,

A handwritten signature in black ink, appearing to read 'JFleege'.

Jeremy Fleege  
Environmental Engineer

Enclosures: 2023 Summer Seasonal Emissions Inventory  
2023 Summer Seasonal Production Report for March through October 2023

# MONTANA RESOURCES

## CONTINENTAL PIT BUTTE, MONTANA

### EMISSIONS INVENTORY SUMMER 2023

	SUMMER 2023
Tons of Ore Mined	10,616,640
Tons of Waste Mined	8,448,590
Haul Truck Vehicle Miles(1)	487,345
Support Vehicle Miles Traveled(2)	406,798
Heavy Equipment Other Than Haul Trucks(5)	30,310
Number of Holes Drilled	9,083
Number of Blasts	85
Tons of Explosives	4,099
Tons of Ore Through Primary Crusher	10,616,640
Tons of Ore Through Secondary Crusher	10,616,640
Tons of Ore Through Fine Ore Bins	10,616,640
Tons of Ore to Concentrator(3)	10,616,640
Current Acreage of Disturbed Area	5,566
Current Acreage of Exposed Tailing Beach	1,106
Gallons of Diesel Consumed(6)	2,260,501
Gallons of Gasoline Consumed	46,227
Tons of Lime Unloaded (7)	37,273.59
Concentrator and Primary Crusher	30,012.64
Water Treatment Plant	7,261
Tons Through Molybdenum Dryer (8)	4,726.44
Type of Chemical Dust Suppressant Used	Sodium Chloride
Tons of Chemical Dust Suppressant Used	37.6
Water Truck Hours(4)	3,514.0

(1) 17-6 wheel 240 ton haul trucks: 79,507 loads @ ≈ 3.06 miles

(1) Highest vehicle miles traveled by haul trucks (VMT's) Mar. 16, 2023 - 2,731 VMT's

(2) 68 vehicles - averaged 8.8 miles per gallon

(3) The daily average throughput for ore during the summer period of 2023 was 43,333 tons per day

(3) The highest throughput day for ore during the summer period was July 2, 2023. 56,345 tons of ore were treated in the mill

(4) MR's Water Truck: 52,000 gallons

(5) Loader @ 2 miles per day X 245 days = 490 VMT

(5) Grader @ 50 miles per day X 245 days = 12,250 VMT

(5) Water Truck @ 5 miles per hour X 3,514 hours = 17,570 VMT

(6) Average consumption per day of diesel during the summer period was 9,226.53 gallons

(7) Average tonnage unloaded per day of lime during the summer period was 152.14 tons

(8) The highest throughput day for the molybdenum dryer during the summer period was October 8, 2023. 45.34 tons of molybdenum concentrate were dried.\*

\*This excludes end of month inventory adjustments.

(9) Summer 2023 includes: Mar., Apr., May, June, July, Aug., Sept., & Oct. 2023

# MONTANA RESOURCES, LLC

## SUMMARY REPORT

Due by Nov. 30

### MAXIMUM SEASONAL PRODUCTION RATES (SUMMER)

March through October - 2023

JAF  
11/29/23

Summer (March - October) Seasonal Production Limitations

<b>Emission Point (Production Units)</b>	<b>Max. Seasonal Prod. Rate</b>	<b>Actual Max. Prod. Rate</b>	<b>Variance</b>
Haul Trucks (vmt) <sup>1</sup>	1,420,560.0	487,345.0	933,215.0
Diesel Exhaust (gallons of diesel)	6,358,664.9	2,260,501.0	4,098,163.9
Lime Unloading (tons of lime)	123,898.5	37,273.6	86,624.9
Support Vehicles <sup>2</sup> (vmt)	1,466,666.0	406,798.0	1,059,868.0
Molybdenum Dryer (tons of molybdenum)	61,875.6	4,726.4	57,149.2
Primary Crusher Ore Dump (tons of ore)	34,759,820.9	10,616,640.0	24,143,180.9

<sup>1</sup> VMT is Vehicle Miles Traveled

<sup>2</sup> Support Vehicles plus Heavy Equipment Other Than Haul Trucks