ATTACHMENT 5

Bulldog Discharge Permit Application

The Discharge Application was submitted to the Colorado Department of Public Health and Environment – Water Quality Control Division on August 1, 2023.

ATTACHMENT 5 includes the Discharge Application only. ATTACHMENTS associated with the Discharge Application are available upon request.

There is a 180 day review period for the Discharge Application and Rio Grande Silver anticipates receiving the approved discharge permit in January or February 2024.

COLORADO
Department of Public Health & Environment
4300 Cherry Creek Drive S
Denver, CO 80246-1530
P 303-692-2000
www.colorado.gov/cdphe/wqcd

Dedicated to protecting and improving the health and environment of the people of Colorado

For Agency Use Only
Permit Number Assigned
CO-_____
Date Received

APPLICATION FOR DISCHARGES ASSOCIATED WITH HARDROCK MINING/ MILLING, AND COAL MINING/PREPARATION ACTIVITIES

Please print or type. Original signatures are required. This application must be considered complete by the Division before it will initiate permit processing. The Division will notify the applicant if additional information is needed to complete the application. If more space is required to answer any question, please attach additional sheets to the application form. Applications must be mailed or delivered to:

Colorado Department of Public Health and Environment
Water Quality Control Division
4300 Cherry Creek Drive South
WQCD-P-B2
Denver, Colorado 80246-1530

TEMPORARY COVID19 Submission - Digitally signed documents may be emailed to

cdphe.wqrecordscenter@state.co.us.

Do not follow up with a mailed-in hard copy. The directions for electronic signatures can be found at this FAQ at question 41.

Reason for Application: ☒ NEW CERT
☐ RENEW CERT EXISTING PERMIT or CERT #_____

PERMIT INFORMATION
Applicant is: ☒ Property Owner ☐ Contractor/Operator

IS THIS THE CORRECT APPLICATION FOR YOUR FACILITY?
This application is for use by all hardrock mining and/or milling and coal mining and/or preparation facilities with **process water, mine dewatering, and/or stormwater** discharges.

1. CONTACT INFORMATION

PERMITTEE (If more than one please add additional pages)

ORGANIZATION FORMAL NAME: Rio Grande Silver, Inc.

a. **PERMITTEE** the person **authorized to sign and certify** the permit application. This person receives all permit correspondences and is **legally responsible** for ensuring compliance with the permit.

Responsible Position (Title): Vice President
Currently Held By (Person): Mike Clary
Telephone No: 208-769-4146
email address mclary@hecla.com
Organization: Rio Grande Silver, Inc.
Mailing Address: 6500 Mineral Dr Suite 200
City: Coeur d'Alene State: ID Zip: 83815

This form must be signed by the Permittee to be considered complete.
Per Regulation 61 In all cases, it shall be signed as follows:

a) In the case of corporations, by a responsible corporate officer. For the purposes of this section, the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the application originates.
b) In the case of a partnership, by a general partner.
c) In the case of a sole proprietorship, by the proprietor.
d) In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official

b. DMR COGNIZANT OFFICIAL (i.e. authorized agent) the person or position authorized to sign and certify reports required by permits including Discharge Monitoring Reports [DMR's], Annual Reports, Compliance Schedule submittals, and other information requested by the Division. The Division will transmit pre-printed reports (ie. DMR's) to this person. If more than one, please add additional pages.

☐ Same As 1) Permittee

Responsible Position (Title): Manager

Currently Held By (Person): Lance Boylan

Telephone No: (208) 769-4142

email address lboylan@hecla.com

Organization: Rio Grande Silver, Inc.

Mailing Address: 6500 Mineral Dr Suite 200

City: Coeur d'Alene State: ID Zip: 83815

Per Regulation 61 : All reports required by permits, and other information requested by the Division shall be signed by the permittee or by a duly authorized representative of that person. A person is a duly authorized representative only if:
(i) The authorization is made in writing by the permittee
(ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a **named individual** or any individual occupying a named position)
(iii) Written request is submitted to the Division

c. SITE CONTACT local contact for questions relating to the facility & discharge authorized by this permit for the facility.

☐ Same As 1) Permittee

Responsible Position (Title): Manager

Currently Held By (Person): Lance Boylan

Telephone No: (208) 769-4142

email address lboylan@hecla.com

Organization: Rio Grande Silver, Inc.

Mailing Address: 6500 Mineral Dr Suite 200

City: Coeur d'Alene State: ID Zip: 83815

d. OPERATOR in Responsible Charge ☐ Same As 1) Permittee

Responsible Position (Title): Class A Industrial Wastewater Treatment Operator

Currently Held By (Person): Martin Deline

Telephone No: 207-607-9251

email address martindeline1950@gmail.com

Organization: Warm Springs Consulting, LLC

Mailing Address: PO Box 1480

City: Fairplay State: CO Zip: 80440

Certification Type Class A Industrial Certification Number CWP-IA-00044-0499

e. BILLING CONTACT ☐ **Same As 1) Permittee**

Responsible Position (Title): Manager

Currently Held By (Person): Lance Boylan

Telephone No: (208) 769-4142

email address lboylan@hecla.com

Organization: Rio Grande Silver, Inc.

Mailing Address: 6500 Mineral Dr Suite 200

City: Coeur d'Alene State: ID Zip: 83815

f. OTHER CONTACT TYPES (check below) Add pages if necessary:

Responsible Position (Title): Water Quality & Permitting Consultant

Currently Held By (Person): Jeff Kurtz

Telephone No: 303-775-1726

email address jkurtz@geosyntec.com

Organization: Geosyntec Consultants Inc.

Mailing Address: 44 Union Boulevard, Suite 620

City: Lakewood State: CO Zip: 80228

- ☐ **Pretreatment Coordinator**
- ☐ **Environmental Contact**
- ☐ **Biosolids Responsible Party**
- ☐ **Property Owner**
- ☐ **Inspection Facility Contact**
- ☑ **Consultant**
- ☐ **Compliance Contact**
- ☐ **Stormwater Authorized Representative**
- ☐ **Other** _____

2. PERMITTED FACILITY INFORMATION

Name of Plan, Project or Development: Bulldog Mine

Location of construction site:

Street Address (or cross streets): 625 USFS Road 504.1A

City (if unincorporated, so indicate): Outside City limits County: Mineral

State and Zip Code: Colorado 81130

Latitude and Longitude (approximate center of site to nearest 15 seconds using one of following formats):

Latitude: N37.93780 degrees (to 5 decimal places) Longitude: W106.93780 degrees (to 5 decimal places) (e.g., 39.70312°, 104.93334')

3. STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE(S) FOR THIS FACILITY (Include up to 4 in order of importance.

1. 1044 2. 1031 3. _____ 4. _____

4. DESCRIBE THE INDUSTRIAL ACTIVITIES WHICH TAKE PLACE ON THIS SITE

Describe the primary industrial activities which take place on site. Include the type of facility plus a brief description of the nature of the business and the industrial processes used. Include a description of the mining, milling, coal preparation, etc. processes where applicable. A process flow sheet would be acceptable.

Dewatering of the bulldog upper mine pool to allow rehabilitation, exploration and development. Water pumped from the mine will be treated: Ph adjustment, cartridge filters, green sand filter, GAC, trace metal removal media. See ATTACHMENT 1-Bulldog Mine Treatment Summary.

5. IS THIS FOR AN EXPLORATORY, ACTIVE MINING/MILLING, INACTIVE MINING, OR IS THE SITE IN TEMPORARY CESSATION?

Exploratory

If Exploratory – please submit any known water quality/quantity data relative to the discharge and the receiving stream which reflects the conditions prior to the present activity, the length of time the activity is expected to be under exploration, and describe what activities will take place during exploration which could have an impact on the quality of the discharge.

Average inflows are 12 to 15 gpm with seasonal variability up to 50 gpm. Treatment Plant design capacity is 70 gpm. For water quality to be treated see ATTACHMENT 2-Bulldog Upper Mine Pool WQ Data. For receiving stream water quality data see ATTACHMENT 3-Willow Creek and Rio Grande WQ Data, Site Specific Tiered Standards Segments 4a and 7, and Rio Grande Segments 4A and 7 SW Sample Locations Map. ATTACHMENT 4-Windy Gulch Water Quality Data.
Activities during the expected 5-year exploration period which could impact the quality of the discharge include adit rehabilitation, development of additional underground exploration drifts, core drill station development and core drilling. Note that water discharged from the adit will be treated prior to discharge into the receiving stream.

6. Production: List the principal product(s) produced and maximum production rate.

No ore production is planned for this phase. Bulldog ore historically produced Silver and Lead.

7. Is this a seasonal operation? ■ **No** ☐ **Yes** **If yes, please indicate the months of operation:**

☐ JAN ☐ FEB ☐ MAR ☐ APR ☐ MAY ☐ JUNE ☐ JULY ☐ AUG ☐ SEPT ☐ OCT ☐ NOV ☐ DEC

8. Intermittent discharges: Except for storm runoff, are any of the discharges intermittent or seasonal? ■ No ☐ Yes

Describe the frequency, duration and flow rate of each discharge occurrence.

Treated discharge is anticipated to be continuous, 24/7, 365 days/year, during the expected 5-year exploration period. Average flow rate of the treated discharge is expected to be 12 to 15 gpm, with seasonal variability up to 50 gpm. NOTE: The receiving stream is ephemeral and only flows from snowmelt in the springtime when the snowpack is normal or above normal accumulation. See ATTACHMENT 4a-Windy Gulch Flows-Duration

Activity duration: When did the mining/milling operation commence? N/A **Rehabilitation and exploration is anticipated to begin in 2024**

What is the estimated life of the activity from which the discharge(s) identified in item 20 originate? 5 years.

9. Location map: A location map designating the facility property, intake points, discharge points, each of its hazardous waste treatment storage or disposal facilities, each well where fluids from the facility are injected underground, those wells, springs, other surface water bodies and drinking water wells listed in public records or otherwise known to the applicant and the receiving waters shall be submitted. The map shall extend one mile beyond the property boundaries. The map shall be from a 7 or 15 minute USGS quad sheet, or a map of comparable scale. A north arrow shall be shown. **See ATTACHMENT 5-Bulldog Location Map**

10. Site Map: A map of the site shall be submitted, showing appurtenant facilities (buildings, ponds, diversion ditches, stockpiles, etc.), stream location, numbered discharge points, sampling and flow monitoring points, waste rock piles, spent ore piles, tailing dams/dikes, topsoil piles, location of french drains, mine drainage flow paths, domestic wastewater plants, power plants, truck washing areas, explosive storage areas, parking lots, vehicle maintenance areas, chemical storage areas, crusher areas and land application areas. The outfalls shall be labeled to correspond with the numbers listed in items 20 and 21.
See ATTACHMENT 6-Bulldog Site Map

11. Water Balance: Attach a line drawing showing all water flow through and from the mine/mill site. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in item 21. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined, provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures. **See ATTACHMENT 1a-Water Balance**

12. OTHER ENVIRONMENTAL PERMITS

Does this facility currently have any environmental permits, or is it subject to regulation, under either of the following programs?

Permit Name	Yes	No	Applied For, Date	Permit No.
a.) Colorado Division of Reclamation, Mining and Safety Permit Anniversary Date October 31, 2014	X		Homestake 9/15/1977 Transfered to Emerald Mining & Leasing 4/21/2008. Transfered to Rio Grande Silver 6/19/2012. Currently Active	M1977-215
b.) Underground Injection Control		X		
c.) Dredge or fill permit under Section 404 of the Clean Water Act (CWA) (Army Corps of Engineers)		X		
d.) Resource Conservation and Recovery Act (RCRA)		X		
e.) CDPS Stormwater **(If YES, please include copy of site's Stormwater Management Plan)**	X		10/1/2006 See ATTACHMENT 9- Bulldog SWMP	COR-040173
f.) Colorado State Air Pollution Emission		X		
g.) Other: SPCCP				Available upon request

13. Site-specific conditions:

a) Is this operation located within one mile of a landfill, or any mine or mill tailings? ☐ NO ☐ YES

b) Does the dewatering area have or possibly have groundwater contamination, such as plumes from leaking underground storage tanks, etc.? ■ NO ☐ YES

If YES for **any** of these, please show location of the landfill, tailings or possible groundwater contamination on the location map in item 9 or in the site map sketch in item 10. Please explain the location, extent of contamination, and possible effect on the discharges from this facility.

The Nelson Tunnel and a historic Reclaimed Tailings Facility (Homestake) are located within one mile of the Proposed Windy Gulch Water Discharge Point 001. See ATTACHMENT 5-Bulldog Location Map for locations of the Nelson Tunnel and Reclaimed Tailings Facility (Homestake). See ATTACHMENT 7-Site-specific conditions for explanations.

14. Bath House/Dry and Sanitary Waste: Is there a bath house/dry at this facility? ☐ NO ■ YES

Are there sanitary wastewater facilities or sanitary treatment systems at this facility? ☐ NO ■ YES

If YES, what is the disposition of any wastewater generated?

A On-site Wastewater Treatment System (OWTS)will be utilized for waste water generated from Bath House/Dry and discharged to a septic tank/leach field. This is separate from the treated discharge from the Bulldog Upper Mine Pool.

15. Chemical addition/ treatment

If chemical additives, settling agents, flocculants, or other materials are proposed for use in or to treat wastewater/stormwater prior to discharge, please submit a **Chemical Evaluation Form** with this application.

a. Is chemical addition/treatment proposed for this facility?

■ Yes □ No

b. Did applicant submit a **Chemical Approval Form** with this application? **See ATTACHMENT 8-Request for Chemical Evaluation**

■ Yes □ No - chemical addition/treatment not proposed

16. Used or Manufactured Toxics: The applicant must provide a list of any toxic products which the applicant currently uses or manufactures as an intermediate or final product or byproduct.

None expected to be used or manufactured during exploration.

17. Flow Measurement: What method of flow measurement will be used for each discharge point (e.g., v notch weir, pump capacity, parshall flume, etc.)? Designate whether currently installed or proposed. Identify the minimum and maximum flow measurement capability. List the last date calibrated.

Flow will be measured by an in-line totalizing flow meter that will be calibrated and certified before discharge begins and an instantaneous flow meter to capture peaks in flow. Meters will have an accuracy of +/- 10% of actual flow or better.

18. Improvements: Please provide a description of any abatement requirement, abatement project and projected final compliance dates if subject to any present requirements or compliance schedules for construction, upgrading or operation of waste treatment equipment. List any changes from previous permit.

There are no abatement requirements or compliance schedules.

19. Land Application: Is or will land application of any wastewater be practiced? ■ NO ☐ YES

If Yes, please provide a copy of the material submitted to the **Colorado DRMS** on the discharge and include a copy of the CDRMS approval where applicable. Briefly describe the process

20. Flows, Treatment and Map: Please provide a detailed narrative description for each type of process, operation, storage or area which contributes wastewater to the effluent for each outfall, **including all mine related wastewater, cooling waters, domestic wastewater and stormwater runoff**; the average discharge flow for each outfall (including stormwater outfalls) and a description of the treatment the wastewater receives. The average flow of point sources composed of stormwater may be estimated.
See ATTACHMENT 10-Flows,Treatment and Map and ATTACHMENT 1-Bulldog Mine Treatment Summary

Examples of the **process, operation, storage or production areas** to document in this section include, but are not limited to:

- all small area exemptions (SAEs) and associated pollutant sources;
- mine vent bore hole pads and associated roads;
- facilities that support the mining operation, such as ventilation facilities; dewatering facilities, laydown areas, material storage areas, subsoil storage; material handling areas;
- coal preparation plant and coal preparation plant associated areas, including train load out areas and associated access roads;
- coal refuse areas and associated roads;
- brushing/grubbing areas; topsoil stockpiles; regrading areas; reclamation areas;
- ore and ore conveyances; mine waste, waste rock; tailings, overburden, topsoil, and roads constructed of these materials;
- all milling/processing areas;
- mine adits or mining areas that currently do, or potentially could, discharge mine water;

- excavations/pits/ponds that may discharge mine water;
- all spoil piles and spoil springs; seeps and springs (mine influenced and other);
- non-stormwater discharges (e.g., domestic or wash water; well dewatering, etc.);
- all roads, and all road construction (haul roads/access roads etc) with associated total disturbed area, as applicable;
- all under-drains;
- all ponds.

For all wastewater ultimately discharged from the facility, **provide a map with date prepared,** that shows the permit or property boundary, and contributing sources, associated flow paths, and discharge locations (outfalls and receiving water such as streams, wetlands and other surface waters within or outside the facility,); for stormwater, the direction of stormwater flow to show whether stormwater from multiple pollutant sources commingle; and outfall locations (including outfalls for **sheet flow** as applicable to the facility). See also items 10 and 11, above.

List the outfall number for each discharge point. List all sources of wastewater for each outfall and give the 30 day average flow and daily maximum flow. Estimate the flow contributed by each source if no data is available, and for stormwater, you may use any reasonable measure of duration, volume or frequency. Describe each treatment unit. Indicate the 10-year, 24-hour equivalent volume used in designing the treatment system and the system's actual volume, excluding solids retention and any "permanent pool" that may be provided. Indicate if extra capacity is provided for mine water and/or other non-storm related flows and how this volume was determined. Indicate what type(s) of discharge structure each outfall has and how flow is discharged - whether it discharges automatically or manually. If your flows vary significantly or if you anticipate significant changes in flows during the next 5 years, specify which flows will change and explain why they will change. Describe the ultimate disposal of any solid or liquid waste not discharged. (Specify receiving waters(s) in table for item 21.)

Use additional sheets if necessary. Additional information on the treatment facilities may be requested during application review.

OUTFALL NUMBER	WASTEWATER SOURCE	TREATMENT USED	AVG FLOW, MGD*	DESIGN FLOW, MGD*	DAILY MAX FLOW, MGD*
001	Bulldog upper mine pool	Ph adjustment, cartridge filters, green sand filter, GAC, trace metal removal media	.017	.101	.072

*MGD - Million gallons/day

21. For each outfall provide the latitude, longitude and receiving water and indicate the method used to derive this information. Use additional sheets if necessary. Please refer to instructions.

For each outfall to surface water or discharge to ground water, provide latitude/longitude and receiving water

OUTFALL	LATITUDE	LONGITUDE	RECEIVING WATERS* * Give formation name and distance to surface water for discharges to **ground water**
001	N37.85765	W106.93536	Windy Gulch to Willow Creek
FACILITY FRONT DOOR	N37.85630	W106.93536	Front door of Administration building

The following choices for the data acquisition are listed in order of preference. Please check the box that applies to the method used for collection of the locational data of your **Facility and Discharge points**.

Global Positioning System (GPS) unit accurate to within 30 yards.

Global Positioning System (GPS) unit accurate to greater than 30 yards.

Global Positioning System (GPS) unit accuracy unknown.

Point on original USGS topographic map.

Engineering drawing/plan with latitude and longitude reference.

Other. Explain

GPS within 30 yds.

22. Are the receiving waters, indicated in item 21, a ditch or storm sewer? ■ NO ☐ YES

If YES, submit documentation that the owner of the ditch or storm sewer allows this discharge. No permit will be processed unless documentation of approval is received.

23. Do you have a certified operator? ☐ NO ■ YES

If yes, please list name(s), certification number(s) and certification level(s).

Martin Deline, CWP-IA-00044-0499, Class A Industrial

24. Discharge Quality: Analytical data for the following parameters, unless waived by the Division, shall be submitted from at least one sampling of each discharge point as well as state waters upstream of each discharge. Upstream data should be from non-runoff periods, to the extent possible. If more than one outfall is to a common body of water, only one analysis of the receiving water upstream of the upper-most outfall will be required. If the receiving stream is dry during portions of the year, so indicate. In the case of sedimentation ponds for stormwater runoff, one outfall can be sampled if it can reasonably be assumed to be representative of all sedimentation pond outfalls. For new mines, please submit a minimum of one years data for those parameters listed below. Such data must have been obtained on at least a quarterly basis and must be reflective of the water quality prior to any mining activity. **See ATTACHMENT 11**

PARAMETER	DETECTION LEVEL	PARAMETER	DETECTION LEVEL
Total Dissolved Solids, mg/R	10	Total Recoverable Manganese, mg/R	0.05
Flow, MGD	NA	Dissolved Manganese, mg/R	0.05
pH, s.u.	NA	Total Mercury, mg/R	0.00025
Oil and Grease, mg/R	5	Total Recoverable Nickel, mg/R	0.05
Dissolved Oxygen, mg/R	NA	Potentially Dissolved Nickel, mg/R	0.05
Alkalinity, mg/R	10	Total Recoverable Silver, mg/R	0.0002
Total Suspended Solids, mg/R	10	Potentially Dissolved Silver, mg/R	0.0002
Hardness, mg/R as $CaCO_3$	10	Total Recoverable Uranium, mg/R	0.03
Total Ammonia, mg/R	0.05	Total Recoverable Zinc, mg/R	0.05
Temperature, ^{B}C Winter	NA	Potentially Dissolved Zinc, mg/R	0.05
Temperature, ^{B}C Summer	NA	Total Residual Chlorine, mg/R	0.05
Biochemical Oxygen Demand, mg/R	1	Fecal Coliform, #/100 ml	NA
Chemical Oxygen Demand, mg/R	30	Nitrate, mg/R as N	0.1
Dissolved Aluminum, mg/R	0.1	Nitrite, mg/R as N	0.002
Total Arsenic, mg/R	0.05	Sulfide mg/R as H_2S	0.1
Total Recoverable Cadmium, mg/R	0.0004	Boron, mg/R	0.05
Hexavalent Chromium, mg/R	0.025	Chloride, mg/R	5
Trivalent Chromium, mg/R	0.05	Sulfate, mg/R	5
Total Chromium, mg/R	0.005	Total Cyanide, mg/R	0.01
Total Recoverable Copper, mg/R	0.005	Total Recoverable Selenium, mg/R	0.002
Potentially Dissolved Copper, mg/R	0.005	Total Cobalt, mg/R	0.006
Total Recoverable Iron, mg/R	0.3	Gross Alpha, piC/R	0.3
Dissolved Iron, mg/R	0.3	Total Radium 226 + 228, pCi/R	8
Total Recoverable Lead, mg/R	0.005	Total Fluoride, mg/R	0.1
Potentially Dissolved Lead, mg/R	0.005	Weak Acid Dissociable Cyanide, mg/R	0.01
Total Phenols, mg/R	0.100	Total Phosphorus, mg/R as P	0.05
Total Organic Nitrogen, mg/R as N	0.05		

25. Dioxin Testing: Each applicant must report qualitative data, generated using a screening procedure not calibrated with analytical standards, for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) if it:

(a) Uses or manufactures 2,4,5-trichlorophenoxy acetic acid (2,4,5,-T); 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5,-TP); 2-(2,4,5-trichlorophenoxy) ethyl, 2,2-dichloropropionate (Erbon); O,O-dimethyl O-(2,4,5-trichlorphenyl) phosphorothioate (Ronnel); 2,4,5- trichlorophenol (TCP); or hexachlorophene (HCP); or

(b) Knows or has reason to believe that TCDD is or may be present in an effluent. **See ATTACHMENT 12**

26. Whole Effluent Toxicity Testing: WET testing shall be conducted for each outfall which is **not** solely made up of stormwater or domestic wastewater, unless waived by the Division, on 100% effluent using both Ceriodaphnia dubia and fathead minnows. This requirement is waived where routine testing is currently required under an existing CDPS permit. The test shall be an acute test unless the ratio of stream low flow to effluent design flow is less than 10:1, respectively, and the receiving stream has a Class 1 Aquatic Life Use or Class 2 Aquatic Life Use with all the appropriate aquatic life numeric standards. In the latter case, a chronic test is required. The Division reserves the right to request additional testing as part of the application review process. If so required, the permit application will not be considered complete until the additional testing is submitted. In addition, all applicants must identify any biological toxicity tests which have been performed within the last 3 years on any of the discharges

or the receiving water in relation to a discharge from this facility. Attach WET test results to this application. If so required, the permit will not be processed until the additional information is submitted.

WET testing procedures are described in the *"Guidelines for Conducting Whole Effluent Toxicity Tests"* which can be obtained from the Division.

See ATTACHMENT 13-Whole Effluent Toxicity Testing

27. Priority Pollutant Scan: The results of a priority pollutant scan, unless waived by the Division, for the volatile and acid fractions as shown in Appendix A must be submitted of each discharge. **See ATTACHMENT 14-Priority Pollutant Scan**

28. Additional Monitoring: All applicants must review the parameters listed in Appendix A and Appendix B to this application, and indicate whether it knows or has reason to believe that these pollutants are present. For every pollutant expected to be discharged, the applicant must briefly describe the reasons the pollutant is expected to be discharged, and report any quantitative data for the pollutant.

There is no indication these pollutants are present.

29. Please submit a copy all water quality monitoring data of outfalls or receiving streams for which data has been gathered over the last five years for the mining/milling site and which is required by the Division of Minerals and Geology. If not already submitted to the Division, the plan which details the monitoring frequency, type, locations and method of analysis must also be submitted. **See ATTACHMENT 15-Water Quality Monitoring Data. See ATACHMENT 5-Location Map for Windy Gulch sample site locations.**

30. Pollution Prevention Plans: Please describe any pollution prevention or best management plans currently in place which could result in the improvement of water quality. These could include solvent recycling programs, material containment procedures, education, etc.

See ATTACHMENT 9- Stormwater Management Plan for pollution prevention and best management practices that are currently in place.

31. Historic Drainages: Does historic drainage exist at the site, which is not covered under a CDPS permit? Yes ? No ? If so, please provide a map showing the location of the discharges and copies of **all** analytical information on the discharges. Please sample the discharges for the parameters listed in item 26 and submit those results. This requirement may be waived by the Division if suitable data on the discharges historic quality and quantity exists.

There is no historic drainage.

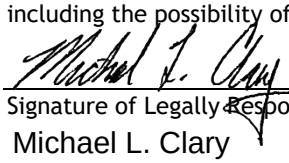
REQUIRED SIGNATURES

Signature of Applicant: The applicant must be either the owner and/or operator of the site. The application must be signed by the applicant to be considered complete. In all cases, it shall be signed as follows: (Regulation 61.4 (1ei)

a) In the case of corporations, by the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the form originates
b) In the case of a partnership, by a general partner.
c) In the case of a sole proprietorship, by the proprietor.
d) In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official, (a principal executive officer has responsibility for the overall operation of the facility from which the discharge originates).

Signature of Permit Legal Contact

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.



7/13/2023

Signature of Legally Responsible Person (submission must include original signature) Date Signed

Michael L. Clary Vice President

Name (printed Title

Signature of Operator (submission must include original signature) Date Signed

Name (printed Title

DO NOT INCLUDE PAYMENT – AN INVOICE WILL BE SENT AFTER THE PERMIT IS ISSUED.

Appendix A - Priority Pollutants

Organic Toxic Pollutants in Each of Three Fractions in Analysis by Gas Chromatography/Mass Spectroscopy(GC/MS).

Volatiles

Acrolein
Acrylonitrile
Benzene
Bromoform
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
2-Chloroethylvinyl Ether
Chloroform
Dichlorobromomethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene
1,2-Dichloropropane
1,3-Dichloropropylene
Ethylbenzene
Methyl Bromide
Methyl Chloride
Methylene Chloride
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
Toluene
1,2-Trans-dichloroethylene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
Vinyl Chloride

Base/Neutral

Acenaphthene
Acenaphthylene
Anthracene
Benzidine
Benzo(a)anthracene
Benzo(a)pyrene
3,4-Benzofluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl)phthalate
4-Bromophenyl phenyl ether
Butylbenzyl phthalate
2-Chloronaphthalene
4-Chlorophenyl phenyl ether
Chrysene
Dibenzo (a,h) anthracene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
3,3-Dichlorobenzidine
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
2,4-Dinitrotoluene
2,6-Dinitrotoluene
Di-n-octyl phthalate
1,2-Diphenylhydrazine (as azobenzene)
Fluorene
Fluoranthene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorcyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodimethylamine
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Phenanthrene
Pyrene
1,2,4-Trichlorobenzene)

Acid

2-Chlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
4,6-Dinitro-o-cresol
2,4-Dinitrophenol
2-Nitrophenol
4-Nitrophenol
P-chloro-m-cresol
Pentachlorophenol
Phenol
2,4,6-Trichlorophenol

Pesticides

Aldrin
Alpha-BHC
Beta-BHC
Gamma-BHC
Delta-BHC
Chlordane
4,4'-DDT
4,4'-DDE
4,4'-DDD
Dieldrin
PCB-1260
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Heptachlor
Heptachlor Epoxide
PCB-1242
PCB-1254
PCB-1221
PCB-1232
PCB-1248
PCB-1016
Alpha-Endosulfan
Beta-Endosulfan
Toxaphene

Metals, Cyanide, and Total Phenols

Total Recoverable Antimony, mg/P
Total Recoverable Beryllium, mg/P
Total Recoverable Thallium, mg/P
Bromide, mg/P
Color
Sulfite, mg/P
Surfactants,
Total Magnesium, mg/P
Total Molybdenum, mg/P
Total Tin, mg/P
Total Titanium, mg/P

Appendix B - Toxic Pollutants and Hazardous Substances

Toxic Pollutants

Asbestos

Hazardous Substances

Acetaldehyde
Allyl alcohol
Allyl chloride
Amyl acetate
Aniline
Benzonitrile
Benzyl chloride
Butyl acetate
Butylamine
Captan
Carbaryl
Carbofuran
Carbon disulfide
Chlorphyrifos
Coumaphos
Cresol
Crotonaldehyde
Cyclohexane
2,4-D (2,4-Dichlorophenoxy acetic acid)
Diazinon
Dicamba
Dichlobenil
Dichlone
2,2-Dichloropropionic acid
Dichlorvos
Diethyl amine
Dimethly amine
Dinitrobenzene
Diquat
Disulfoton
Diuron
Epichlorohydrin
Ethion
Ethylene diamine
Ethylene dibromide
Formaldehyde
Furfural
Guthion
Isoprene
Isopropanolamine dodecylbenzenesulfonate
Kelthane
Kepone
Malathion
Mercaptodimethur
Methoxychlor
Methyl mercaptan
Methyl methacrylate
Methyl parathion
Mevinphos
Mexacarbate
Monoethyl amine
Monomethyl amine
Naled
Naphthenic acid
Nitrotoluene
Parathion
Phenolsulfanate
Phosgene
Propargite
Propylene oxide
Pyrethrins
Quinoline
Resorcinol
Strontium
Strychnine
Styrene
2,4,5-T (2,4,5-Trichlorophenoxy acetic acid)
TDE (Tetrachlorodiphenyl ethane)
2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]
Trichlorofan
Triethanolamine dodecylbenzenesulfonate
Triethylamine
Trimethylamine
Uranium
Vanadium
Vinyl acetate
Xylene
Xylenol
Zirconium