



GOVERNMENT OF
NEWFOUNDLAND AND LABRADOR
Department of Municipal Affairs and Environment

CERTIFICATE OF APPROVAL

Pursuant to the Environmental Protection Act, SNL 2002 c E-14.2 Section 83

Issue Date: *June 15, 2018*

Approval No. AA18-065651

Expiration: *March 31, 2023*

File No. 734.070

Proponent: **Rambler Metals and Mining Canada Limited**
Route #418, Ming's Bight Road
PO Box 610
Baie Verte, Newfoundland
A0K 1B0

Attention: Scott Britton, General Manager

Re: **Rambler Metals and Mining Canada Limited – Nugget Pond
Milling Facility ("Mill Site"), Ming Copper-Gold Mine ("Mine
Site" and Goodyear's Cove Port ("Port Site")**

Approval is hereby given for the operation of an ore processing facility, tailings management area, and other associated works at the Mill Site; the operation of an underground mine, wastewater treatment plant, and other associated works for the Mine Site; and the operation of a concentrate handling, storage and loading facility at the Port Site.

This Certificate of Approval does not release the proponent from the obligation to obtain appropriate approvals from other concerned provincial, federal and municipal agencies. Nothing in this Certificate of Approval negates any regulatory requirement placed on the proponent. Where there is a conflict between conditions in this Certificate of Approval and a regulation, the requirement in the regulation shall take precedence. Approval from the Department of Municipal Affairs and Environment shall be obtained prior to any significant change in the design, construction, installation, or operation of the Project, including any future expansion of the Project. This Certificate of Approval shall not be sold, assigned, transferred, leased, mortgaged, sublet or otherwise alienated by the proponent without obtaining prior approval from the Minister.

This Certificate of Approval is subject to the terms and conditions as contained therein, as may be revised from time to time by the Department. Failure to comply with any of the terms and conditions may render this Certificate of Approval null and void, may require the proponent to cease all activities associated with this Certificate of Approval, may place the proponent and its agent(s) in violation of the *Environmental Protection Act*, and will make the proponent responsible for taking such remedial measures as may be prescribed by the Department. The Department reserves the right to add, delete or modify conditions to correct errors in the Certificate of Approval or to address significant environmental or health concerns.

For 
MINISTER

TERMS AND CONDITIONS FOR APPROVAL No. AA18-065651

June 15, 2018

General

1. This Certificate of Approval is for the operation of an ore processing facility, tailings management area, and other associated works at the Mill Site located near the community of Snook's Arm on the Baie Verte Peninsula, NL; the operation of an underground mine, wastewater treatment plant, and other associated works for the Mine Site located near Ming's Bight on the Baie Verte Peninsula, NL; and the operation of a concentrate loading and storage site at the Port Site located near the community of South Brook, NL. Extensive future expansion or change of activities will require a separate Certificate of Approval.
2. Any inquires concerning this Approval shall be directed to the Western Regional Office of the Pollution Prevention Division (telephone: (709) 643-6114; or facsimile: (709) 643-8654).
3. In this Certificate of Approval:
 - **accredited** means the formal recognition of the competence of a laboratory to carry out specific functions;
 - **acutely lethal** means that the effluent at 100% concentration kills more than 50% of the rainbow trout subjected to it during a 96-hour period, when tested in accordance with the ALT;
 - **ALT (acute lethality test)** means a test conducted as per Environment and Climate Change Canada's Environmental Protection Service reference method EPS/1/RM-13 Section 5 or 6;
 - **composite sample** means a quantity of undiluted effluent collected continually at an equal rate or at a rate proportionate to flow over a designated sampling period;
 - **Department** means the Department of Municipal Affairs and Environment and its successors;
 - **Director** means the Director of the Pollution Prevention Division of the Department;
 - **discharge criteria** means the maximum allowable levels for the parameters listed in *Table 3*;
 - **EDMS** means Environmental Data Management System;
 - **GAP** means *Storage and Handling of Gasoline and Associated Products Regulations, 2003*;
 - **grab sample** means a quantity of undiluted sample collected at any given time;

- **hazardous waste** means a product, substance or organism that is intended for disposal or recycling, including storage prior to disposal or recycling, and that:
 - (a) is listed in Schedule III of the *Export and Import of Hazardous Waste Regulations under the Canadian Environmental Protection Act, 1999*;
 - (b) is included in any of Classes 2 to 6, and 8 and 9 of the *Transportation of Dangerous Goods Regulations* under the *Transportation of Dangerous Goods Act, 1992*; or
 - (c) exhibits a hazard classification of a gas, a flammable liquid, an oxidizer, or a substance that is dangerously reactive, toxic, infectious, corrosive or environmentally hazardous;
- **licensed** means has a Certificate of Approval issued by the Minister to conduct an activity;
- **liquid waste** is defined by the *Slump Test* (Canadian Standards Association test method A23.2-5C for determining the slump of concrete). The liquid waste slump test involves placing the waste in a 30 cm open inverted cone. The cone is removed and the immediate decrease (slump) in height of the waste material is measured. If the material slumps such that the original height is reduced by 15 cm or more, the waste is considered liquid;
- **malfunction** means any sudden, infrequent and not reasonably preventable failure of air pollution control equipment, wastewater treatment equipment, process equipment, or a process to operate in a normal or usual manner. Failures, caused in part by poor maintenance or careless operation, are not malfunctions;
- **Minister** means the Minister of the Department;
- **proficiency testing** means the use of inter-laboratory comparisons to determine the performance of individual laboratories for specific tests or measurements;
- **QA/QC** means Quality Assurance/Quality Control;
- **register(ed)** means that information regarding the storage tank system has been submitted to a Service NL office and a registration number has been assigned to the storage tank system.
- **regulated substance** means a substance subject to discharge limit(s) under the *Environmental Control Water and Sewage Regulations, 2003*;
- **RMMCL** means Rambler Metals and Mining Canada Limited;
- **spill or spillage** means a loss of gasoline or associated product in excess of 70 litres from a storage tank system, pipeline, tank vessel or vehicle, or an uncontrolled release of any volume of a regulated substance onto or into soil or a body of water;
- **storage tank system** means a tank and all vent, fill and withdrawal piping associated with it installed in a fixed location and includes a temporary arrangement;

- **TDS** means total dissolved solids;
 - **toxic pass** means a fish mortality rate of no more than 50% during the ALT;
 - **TPH** means total petroleum hydrocarbons, as measured by the Atlantic PIRI method;
 - **TSS** means total suspended solids;
 - **used lubricating oil** means lubricating oil that as a result of its use, storage or handling, is altered so that it is no longer suitable for its intended purpose but is suitable for refining or other permitted uses;
 - **used oil** means a used lubricating oil or waste oil; and
 - **waste oil** means an oil that as a result of contamination by any means or by its use, is altered so that it is no longer suitable for its intended purpose.
4. All necessary measures shall be taken to ensure compliance with all applicable acts, regulations, policies and guidelines, including the following, or their successors:
- *Environmental Protection Act;*
 - *Water Resources Act;*
 - *Air Pollution Control Regulations, 2004;*
 - *Environmental Control Water and Sewage Regulations, 2003;*
 - *Halocarbon Regulations;*
 - *Storage and Handling of Gasoline and Associated Products Regulations, 2003;*
 - *Used Oil Control Regulations;*
 - *Heating Oil Storage Tank System Regulations, 2003;*
 - *Sampling of Water and Wastewater - Industrial Effluent Applications Guidance Document;*
 - *Guidance Document for the Management of Impacted Sites;* and
 - *Accredited Laboratory Policy.*

This Approval provides terms and conditions to satisfy various requirements of the above listed acts, regulations, policies and guidelines. If it appears that any of the pertinent requirements of these acts, regulations, policies and guidelines are not being met, then a further review of the works shall be conducted, and suitable pollution control measures may be required by the Minister

5. All reasonable efforts shall be taken to minimize the impact of the operation on the environment. Such efforts include:
- minimizing the area disturbed by the operation,
 - minimizing air or water pollution,
 - finding alternative uses, acceptable to the Director, for waste or rejected materials,
 - removing equipment or structures when they no longer have further use, and
 - considering the requirement for the eventual rehabilitation of disturbed areas when planning the development of any area on the facility property.

6. **RMMCL** shall provide to the Department, within a reasonable time, any information, records, reports or access to data requested or specified by the Department.
7. **RMMCL** shall keep all records or other documents required by this Approval at the Mine Site/Mill Site location for a period of not less than three (3) years, beginning the day they were made. These records shall be made available for review by officials of the Department or Service NL when requested.
8. Should **RMMCL** wish to deviate in any way from the terms and conditions of this Certificate of Approval, a written request detailing the proposed deviation shall be made to the Minister. **RMMCL** shall comply with the most current terms and conditions until the Minister has authorized otherwise. In the case of meeting a deadline requirement, the request shall be made at least 60 days ahead of the applicable date as specified in this Approval or elsewhere by the Department.

Construction

9. Any work that must be performed in a body of water below the high water mark shall be carried out during a period of low water levels, unless otherwise permitted in writing by the Department.
10. All construction operations shall be carried out in a manner that minimizes damage to land, vegetation, and watercourses, and which prevents pollution of bodies of water in excess of applicable regulatory limits.
11. The use of heavy equipment shall be confined to dry stable areas and shall not be carried out in streams or bodies of water, unless otherwise permitted in writing by the Department.
12. All vehicles and equipment shall be in good repair, and shall be free of leaks of oil or other harmful substances that could impair water quality.
13. During the construction of concrete components, formwork shall be properly constructed to prevent any fresh concrete from entering a body of water. Dumping of concrete or washing of tools and equipment in any body of water is prohibited.
14. Waste hardened concrete shall not be disposed as unsuitable material at the project site. Waste hardened concrete shall be put to beneficial use on site as fill material, or it shall be sent to an approved waste disposal site.
15. All areas affected by this project shall be restored to a state that resembles local natural conditions. Further remedial measures to mitigate environmental impacts on water resources can and will be specified, if necessary in the opinion of this Department.
16. Prior written permission is required from the Department for all work that takes place in a body of water, including but not limited to bridges, culverts, fording, stream modifications, infilling and dredging.

Custom Milling

17. Prior to commencing custom milling at the Mill Site, **RMMCL** shall submit details of any planned custom milling to the Director for approval. At minimum, details shall include the source and quantity of ore to be processed and a characterization as to the acid generating potential of the ore and tailings.

Environmental Protection Plan

18. **RMMCL** shall implement the procedures outlined in its *Environmental Protection Plan (February 18, 2011)* to mitigate potential adverse effects from operations associated with the Mine, Mill and Port Sites. Any deviation from the procedures and commitments outlined in the Plan shall be submitted to the Director for review.

Waste Management

19. All waste generated at the facility is subject to compliance with the *Environmental Protection Act*. All non-industrial waste shall be stored in a manner acceptable to the Department and, on at least a weekly basis, be disposed of:
 - at an authorized waste disposal site, with the permission of the owner/operator of the site; or
 - by some other means acceptable to the Department.

If required, industrial waste shall be disposed of by a licensed operator.

20. **RMMCL** shall ensure that all volatile chemical and solvent wastes, if they cannot be reused, are placed in suitable covered containers for disposal in a manner acceptable to the Department. Disposal of liquid waste at waste disposal sites in the province is not permitted.
21. Disposal of hazardous waste in a municipal or regional waste disposal site in this Province is prohibited. Transporters of hazardous waste shall have an approval issued by the Minister. Those generating hazardous waste shall have a waste generator's number issued by the Director and shall also complete the required information outlined in the Waste Manifest Form.

Waste Management Plan

22. **RMMCL** shall continue to implement the *Waste Management Plan (November 2010)* for the Project, including all revisions. Every year the Plan shall be reviewed and revised as necessary, accounting for expanding or alteration of activities. All proposed revisions shall be submitted to the Director for review. The Department will acknowledge receipt of the Plan and/or revisions, and shall provide any review comments within a reasonable time frame.

Acid Generating Waste Rock

23. Only non-acid generating waste rock shall be reused on the surface. If waste rock is identified as potentially acid generating or metal leaching, an appropriate waste rock management program shall be developed to handle, store, and appropriately dispose of the material.
24. This identification shall be in accordance with MEND Report 2.20.1, *Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials*.

Open Burning

25. Materials listed in *Table 1* shall not be burned in open fires.

| Table 1 - Material Not Approved for Open Burning | |
|--|---|
| tires | Manure |
| plastics | Rubber |
| treated lumber | tar paper |
| asphalt and asphalt products | railway ties |
| drywall | paint and paint products |
| demolition waste | fuel and lubricant containers |
| hazardous waste | used oil |
| biomedical waste | animal cadavers |
| domestic waste | hazardous substances |
| trash, garbage, or other waste from commercial, industrial or municipal operations | materials disposed of as part of the removal or decontamination of equipment, buildings or other structures |

26. The Department shall be notified prior to the burning of any materials not listed in *Table 1*.

Noise

27. Efforts shall be made to minimize and control noise resulting from the **RMMCL's** operations and maintenance activities. All vehicles operating within the facility shall have exhaust and muffling devices in good working order.

Dust Suppression

28. **RMMCL** shall control dusting resulting from construction and operational activities at the site. Use of dust suppressants other than water or calcium chloride shall require approval of the Director. **RMMCL** are encouraged to use best management practices when applying calcium chloride or any other approved dust suppressant.

Chemical Operations

29. Empty chemical drums, totes or packaging shall be either sent:

- back to the original equipment manufacturer for re-use;
- to a recognized disposal company, or;
- to a recognized re-cycling facility.

When deemed necessary, waste material from drums, totes or packaging will be retained on-site for collection and disposal by a recognized waste treatment company according to provincial and federal regulations.

Spill Prevention and Containment

30. Areas in which chemicals are used or stored shall have spill containment systems constructed with impermeable floors, walls, dykes or curbs as applicable and be configured, maintained, inspected and repaired as follows:

- they shall not discharge to the environment;
- they shall have an effective secondary containment capacity of at least 110% of the chemical storage tank capacity, in the case of a single storage container;
- if there is more than one storage container, the spill containment system shall be able to retain no less than 110% of the capacity of the largest container or 100 % of the capacity of the largest container plus 10% of the aggregate capacity of all additional containers, whichever is greater;
- they shall be kept clear of material that may compromise the containment capacity;
- they may include a floor drain system provided that the floor drains, and the place or device to which they drain, are configured in such a manner that the required effective secondary containment capacity is maintained;
- every year they shall be visually inspected for their liquid containing integrity, and repairs shall be made when required; and
- once every ten years, spill containment systems shall be inspected, by a means other than visual inspection, for their liquid containing integrity, and repairs shall be made when required.

31. All on site storage of petroleum shall comply with the *Storage and Handling of Gasoline and Associated Products Regulations, 2003*, or its successor. Storage tank systems shall be registered with Service NL. All aboveground storage tanks shall be clearly and visibly labelled with their GAP registration numbers.

32. Where applicable, all tanks and fuel delivery systems shall be inspected to appropriate American Petroleum Institute or Underwriters' Laboratories of Canada standards, or any other standards acceptable to this Department. The required frequency of inspections may be changed at the discretion of the Director.

33. **RMMCL** shall maintain an inventory of all petroleum and chemical storage tanks. This inventory shall include the following:

- site plan showing tank location,
- registration number (where applicable),
- identification number,
- material stored,
- capacity,
- annual throughput,
- tank material,
- tank type,
- tank diameter,
- tank height,
- tank colour,
- roof type,
- year of manufacture,
- date of installation,
- date of last inspection,
- failure history,
- maintenance history,
- effective secondary containment capacity, and
- date of next planned inspection.

Every two (2) years, an update of any changes to the inventory shall be submitted to the Director.

Used Oil

34. Used oil shall be retained in an approved tank or closed container, and disposed of by a company licensed for handling and disposal of used oil products.

Emergency Response Plan

35. **RMMCL** shall continue to implement the *Emergency Response Plan (September 2012)* for the Project, including all revisions. This Plan describes the actions to be taken in the event of a spill of a toxic or hazardous material. Copies of the Plan shall be placed in convenient areas throughout the facility so that employees can easily refer to it when needed. **RMMCL** shall ensure that all employees are aware of the Plan and understand the procedures and the reporting protocol to be followed in the event of an emergency. An annual response exercise is recommended for response personnel. Every year, as a minimum, the Plan shall be reviewed and revised as necessary. Any proposed significant revisions shall be submitted to the Director for review. Changes which are not considered significant include minor variations in equipment or personnel characteristics which do not affect implementation of the Plan.

36. Every time **RMMCL** implements the *Emergency Response Plan*, information shall be recorded for future reference. This will assist in reviewing and updating the Plan. The record is to consist of all incidents with environmental implications, and include such details as:

- date;
- time of day;
- type of incident (i.e. liquid spill, gas leak, granular chemical spill, equipment malfunction, etc.);
- actions taken;
- problems encountered; and
- other relevant information that would aid in later review of the Plan performance.

Each incident report shall be submitted to the Department as per the *Reporting* section.

Rehabilitation and Closure

37. A *Rehabilitation and Closure Plan* detailing the actions to be taken to restore areas disturbed by the operation has been submitted to the Department (*January 2018*). The Plan shall be implemented progressively as required and completed upon site closure.

38. As part of the site decommissioning and restoration process, **RMMCL** shall employ a registered Site Professional to complete a site-wide environmental site assessment, as defined in the *Guidance Document for the Management of Impacted Sites*. Should impacts be identified, **RMMCL** shall proceed through the process outlined in the *Guidance Document for the Management of Impacted Sites* to achieve regulatory site closure.

Ore and Concentrate Storage, Handling and Transport

39. Mined ore will be hauled to surface and stored at the temporary transfer ore stockpile location at the Mine Site. Ore will be loaded from the ore stockpile directly to haul trucks and transported to the Mill Site for processing.

40. Ore shall be stored at designated stockpile locations at the Mill Site and at the ore landing area. Should acid generation become a concern with ore storage, **RMMCL** will be required to develop an action plan that addresses drainage from stockpiles (i.e. pad permeability, leachate collection/treatment system). The action plan shall be submitted to the Director.

41. Concentrate transport trucks shall be fully enclosed to prevent release of this material into the environment during transport from the Mill Site to the Port Site. In the event of a vehicle accident, resulting in a concentrate spill, concentrate will be considered to be a hazardous material and appropriate *Emergency Response Plan* measures implemented as required.

42. The portable conveyor and ship loading systems at the Port Site shall be enclosed to reduce the potential for fugitive concentrate dust emissions.

Effluent Management - Mine Site

43. Mine dewatering effluent, storm water, and runoff from surface infrastructure areas at the Mine Site will be directed to the Ming West holding sump and then to the wastewater treatment plant for treatment prior to discharge. Treated effluent shall be discharged from the treated wastewater tank into South Brook via the designated discharge line.
44. Wastewater treatment plant sludge shall be disposed of in the Ming West Mine underground workings. Alternate sludge disposal options shall require prior review and authorization by the Director. **RMMCL** shall, on a quarterly basis and not less than 30 days apart, have the wastewater treatment plant sludge tested (metals scan as per parameter listing in *Table 4*). All results shall be submitted as per the *Reporting* section utilizing EDMS Reference Code 00395.

Tailings and Effluent Management – Mill Site

45. **RMMCL** shall discharge mill effluent and tailings to the Tailings Pond. All piping transporting effluent and tailings shall be maintained so that there is no leakage, spillage or other release, except at the point where effluent or tailings are normally discharged. Placement of tailings shall be such to maintain adequate water cover at all times.
46. Effluent from the tailings pond shall only be released, discharged, or overflowed to the Polishing Pond. Effluent from the Polishing Pond shall be discharged via the designated spillway.
47. **RMMCL** shall continue to implement the procedures outlined in the *Operation, Maintenance and Surveillance (OMS) Manual (March 2009)* developed for the Tailings Management Facility. This manual describes the actions (recording of water levels, surveys, visual inspections, detailed inspections, and dam safety reviews etc.) that will be performed to ensure that the physical integrity of the dams and ancillary structures are maintained. **RMMCL** shall perform an annual review of the *OMS Manual* and revise the document as deemed necessary. All proposed revisions shall be submitted to the Director for review.

Effluent Monitoring and Discharge

48. **RMMCL** shall perform an Effluent Monitoring Program as per *Table 2*. Analytical results shall be submitted as per the *Reporting* section.

| Table 2 - Effluent Monitoring Program | | | | |
|---------------------------------------|--------------------------------------|--------------------|------------------|-------------------------------------|
| Ref. | Location | EDMS Location Code | Parameters | Frequency |
| Mine Site | Wastewater Treatment Plant Discharge | 00381 | EDC (except ALT) | Weekly (at least 24 hours apart) |
| | | | ALT and TPH | Monthly (at least 15 days apart) |
| Mill Site | Polishing Pond Discharge | 00382 | EDC (except ALT) | Weekly (at least 24 hours apart) |
| | | | ALT and TPH | Monthly (at least 15 days apart) |

49. Refer to **Table 3** for the Effluent Discharge Criteria (EDC).

| Table 3 – Effluent Discharge Criteria (EDC) | | | |
|---|---|--|---|
| Parameter | Maximum Authorized Monthly Mean Concentration | Maximum Authorized Concentration in a Composite Sample | Maximum Authorized Concentration in a Grab Sample |
| Arsenic | 0.50 mg/L | 0.75 mg/L | 1.00 mg/L |
| Copper | 0.30 mg/L | 0.45 mg/L | 0.60 mg/L |
| Cyanide | 1.00 mg/L | 1.50 mg/L | 2.00 mg/L |
| Lead | 0.20 mg/L | 0.30 mg/L | 0.40 mg/L |
| Nickel | 0.50 mg/L | 0.75 mg/L | 1.00 mg/L |
| Zinc | 0.50 mg/L | 0.75 mg/L | 1.00 mg/L |
| Total Suspended Solids | 15.00 mg/L | 22.50 mg/L | 30.00 mg/L |
| Radium 226 | 0.37 Bq/L | 0.74 Bq/L | 1.11 Bq/L |
| ALT | Toxic Pass | | |
| pH | 5.5 to 9 | | |

50. **RMMCL** may reduce the frequency of testing for a parameter that is set out in the EDC with the exception of pH, TSS, ALT and Radium 226 to not less than once in each calendar quarter if that parameter’s monthly mean concentration in the effluent is less than 10 percent of the maximum authorized monthly mean concentration for the 12 months immediately preceding the most recent test. **RMMCL** shall notify the Director in writing, at least 30 days in advance of a reduction in the frequency of testing.

51. **RMMCL** may reduce the frequency of testing for Radium 226 to not less than once in each calendar quarter if that substance’s concentration in the effluent is less than 0.037Bq/L in 10 consecutive tests. **RMMCL** shall notify the Director in writing, at least 30 days in advance of a reduction in the frequency of testing.

52. **RMMCL** shall increase the frequency of testing to the originally prescribed frequency for a parameter that is set out in the EDC with the exception of pH, TSS and ALT, if the parameter's monthly mean concentration is equal to or greater than 10 percent of the maximum authorized monthly mean concentration.
53. **RMMCL** may reduce the frequency of conducting ALT's to once in each calendar quarter if the effluent is determined not to be acutely lethal over a period of 12 consecutive months. **RMMCL** shall notify the Director in writing, at least 30 days in advance of a reduction in the frequency of testing.
54. If a sample is determined to be acutely lethal, an aliquot of the failing sample shall be analyzed for the parameters outlined in **Table 4** without delay.
55. If a sample is determined to be acutely lethal, **RMMCL** shall collect a grab sample from the final discharge point of the failing site and conduct an ALT in accordance with Section 6 of the Reference Method. Samples shall be collected twice per month, not less than 7 days apart, and an ALT shall be conducted on each sample, until it is determined that the effluent is not acutely lethal for three consecutive tests. Following the third consecutive non-acutely lethal test, **RMMCL** shall conduct ALT's as per the original prescribed frequency outlined in **Table 2**.
56. If effluent is determined to be acutely lethal for three consecutive ALTs, **RMMCL** shall implement a Toxicity Identification Evaluation to identify the toxin, and from this develop measures to prevent or reduce the toxin. The report, written as a result of these identification activities, shall be submitted to the Director for review, within 60 days of the third consecutive failed ALT result. After review of the report, the Director may place additional requirements upon the proponent for treatment of effluent prior to discharge.
57. Reports submitted under the section 31 of the Metal Mining Effluent Regulations (MMER) as a result of a deposit out of the normal course of events shall be provided to the Department.

Water Chemistry Analysis

58. Four times per calendar year and not less than thirty (30) days apart, **RMMCL** shall perform Water Quality Analysis as per **Table 4**. Analytical results shall be submitted as per the **Reporting** section.

Table 4 - Water Chemistry Analysis Program

| Location | EDMS Location Code | Parameters |
|----------------------------------|---------------------------|---|
| Treated Mine Effluent | 00381 | General Parameters: temperature, dissolved oxygen (DO), nitrate + nitrite, nitrate, nitrite, pH, TSS, colour, sodium, potassium, calcium, sulphide, magnesium, ammonia, alkalinity, sulphate, chloride, turbidity, reactive silica, orthophosphate, phosphorous, DOC, conductance, TDS (calculated), phenolics, carbonate (CaCO ₃), hardness (CaCO ₃), bicarbonate (CaCO ₃) Metals Scan: aluminium, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, mercury, nickel, selenium, silver, strontium, thallium, tin, titanium, uranium, vanadium, zinc |
| Mine Influent | 00383 | |
| South Brook | 00384 | |
| Monitoring Well #3 | 00391 | |
| Monitoring Well #4 | 00392 | |
| Monitoring Well#5 | 00393 | |
| Monitoring Well#6 | 00394 | |
| Site #1 - Tailings Pond Outflow | 00387 | |
| Site #2 - Polishing Pond Outflow | 00382 | |
| Scrape Pond | 00385 | |
| Scote Pond | 00386 | |
| Site #4 - Horseshoe Pond | 00389 | |
| Site # 13 - Tailings Pond | 00390 | |

Environmental Effects Monitoring

59. The Metal Mining Effluent Regulations (MMER) require that **RMMCL** conduct Environmental Effects Monitoring (EEM) as part of the mine's authority to deposit effluent under the Fisheries Act. Copies of all EEM study designs and reports shall be submitted to the Department.

Analysis and QA/QC

60. Unless otherwise stated herein, all solids and liquids analysis performed pursuant to this Approval shall be done by either a contracted commercial laboratory or an in-house laboratory. Contracted commercial laboratories shall have a recognized form of accreditation. In-house laboratories have the option of either obtaining accreditation or submitting to an annual inspection by a representative of the Department, for which **RMMCL** shall be billed for each laboratory inspection in accordance with Schedule 1 of the *Accredited Laboratory Policy (PD:PP2001-01.02)*. Recommendations of the Director stemming from the annual inspections shall be addressed within 6 months, otherwise further analytical results shall not be accepted by the Director.
61. If **RMMCL** wishes to perform in-house laboratory testing and submit to an annual inspection by the Department then a recognized form of proficiency testing recognition shall be obtained for compliance parameters for which this recognition exists. The compliance parameters are listed in the *Effluent Monitoring and Discharge* section. If using a commercial laboratory, **RMMCL** shall contact that commercial laboratory to determine and to implement the sampling and transportation QA/QC requirements for those activities.
62. The exact location of each sampling point shall remain consistent over the life of the monitoring programs, unless otherwise approved by the Director.

63. **RMMCL** shall bear all expenses incurred in carrying out the environmental monitoring and analysis required under conditions of this Approval.

Monitoring Alteration

64. The Director has the authority to alter monitoring programs or require additional testing at any time when:
- pollutants might be released to the surrounding environment without being detected;
 - an adverse environmental effect may occur; or
 - it is no longer necessary to maintain the current frequency of sampling and/or the monitoring of parameters.
65. **RMMCL** may, at any time, request that monitoring programs or requirements of this Approval be altered by:
- requesting the change in writing to the Director; and
 - providing sufficient justification, as determined by the Director.

The requirements of this Approval shall remain in effect until altered, in writing, by the Director.

Reporting

66. Monthly reports containing the environmental compliance monitoring and sampling information required in this Approval shall be received by the Director in digital format within 30 calendar days of the reporting month. All related laboratory reports shall be submitted with the monthly report in XML format and Adobe Portable Document Format (PDF). Digital report submissions shall be uploaded through the EDMS web portal. The Pollution Prevention Division shall provide details of the portal web address and submission requirements.
67. Each monthly report shall include a summary of all environmental monitoring components and shall include an explanation for the omission of any requisite data. The monthly summary reports shall be in Microsoft Word or Adobe PDF and shall be uploaded through the EDMS web portal with the data submissions.
68. All incidents of:
- *Emergency Response Plan* implementation; or
 - non-conformance of any condition within this Approval; or
 - spillage or leakage of a regulated substance; or
 - discharge criteria being, or suspected of being, exceeded; or

- verbal or written complaints of an environmental nature received from the public by **RMMCL** and related to the Project, including complaints submitted anonymously;

shall be immediately reported, within one working day, to the Department.

A written report including a detailed description of the incident, summary of contributing factors, and an Action Plan to prevent future incidents of a similar nature, shall be submitted to the Department. The Action Plan shall include a description of actions already taken and future actions to be implemented, and shall be submitted within thirty days of the date of the initial incident.

69. Any spillage or leakage of gasoline or associated product shall be reported immediately through the Canadian Coast Guard at 1-(709)-772-2083.

Expiration

70. This Certificate of Approval expires ***March 31, 2023***.
71. Should the proponent wish to continue to operate beyond this expiry date, a written request shall be submitted to the Director for the renewal of this Approval. Such request shall be made prior to ***September 30, 2022***.

cc: Mr. Neil Codner
Environment and Climate Change Canada
6 Bruce Street
Mount Pearl, NL
A1N 4T3

Mr. Robert Locke
Manager of Operations and Environmental Protection
Service NL
5 Mews Place
P.O. Box 8700
St. John's, NL
A1B 4J6

Mr. Alex Smith, P. Eng. – Director
Mineral Development Division
Department of Natural Resources
P.O. Box 8700
St. John's, NL
A1B 4J6

Town of Baie Verte
P.O. Box 218
Baie Verte, NL
A0K 1B0

Town of La Scie
P.O. Box 130
La Scie, NL
A0K 3M0

Town of Ming's Bight
P.O. Box 68, Site 1
Ming's Bight
A0K 3S0

July 3, 2019

File No. 734.070

Scott Britton – General Manager
Rambler Metals and Mining Canada Limited
Route #418, Ming's Bight Road
PO Box 610
Baie Verte, Newfoundland
A0K 1B0

Dear Mr. Britton,

RE: Certificate of Approval Amendment – Camp Pond Tailings Management Facility

Rambler Metals and Mining Canada Limited (RMMCL) has requested an amendment to its Certificate of Approval (AA18-065651) to allow for the construction and operation of a proposed Tailings Management Facility Expansion at Camp Pond, located near its Nugget Pond Mill. The Certificate of Approval is hereby amended to include the use of Camp Pond as an additional tailings management area for RMMCL. The Department shall be notified should the proposed plan deviate from what has been provided by RMMCL in support of the amendment request (design report, dam design, etc.).

The Department requires additional sampling locations to monitor potential water quality impact from the new tailings management area. Table 4 – Water Chemistry Analysis Program of the Certificate of Approval is revised to include two (2) additional sample sites as follows:

| Location | EDMS Code |
|-----------------|------------------|
| Camp Pond | 00686 |
| Steady | 00687 |

If you have any questions please contact Troy Duffy or myself.

Sincerely,



DEXTER PITTMAN
Manager, Industrial Compliance Section