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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Sabina Gold & Silver Corp. **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Matthew Pickard Tel: 604-998-4175 Fax: 604-998-1051 E-mail: mpickard@sabinagoldsilver.com

2. Project Manager: John Laitin Tel: 604-998-4175 Fax: 604-998-1051 E-mail: jlaitin@sabinagoldsilver.com

3. Does the applicant hold the necessary property rights?

Sabina Gold & Silver Corp. acquired a 100% interest in the Back River Properties from Dundee Precious Metals in 2009. Currently operates under water license NWBGOO1015 and NWBGEO0210 for the Goose and George Projects respectively.

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization.
N/A

5. Duration of the Project

X One year or less Start and completion dates: February – August 2015
☐ Multi Year:

If Multi-Year indicate proposed schedule of on site activities
Start: Completion:

CAMP CLASSIFICATION

Sections 6, 7 – 9, and 14 of this form are not applicable as camp use is not included in the scope of the 2015 Site Preparation Activities. Camp activities are covered under the existing Goose Water Licence 2BE-GOO1015.

6. Type of Camp
Not applicable

☐ Mobile (self-propelled)
☐ Temporary

☐ Seasonally Occupied:
☐ Permanent
☐ Other:_____

What is the design, maximum and expected average population of the camp?

Not applicable.

7. Provide history of the site if it has been used in the past.

Goose Activities: Exploration for precious metals has occurred in this area of the Kitikmeot Region since the 1980's under various operators, including Back River Joint Venture, Homestake, Araurco, Kit Resources, Kinross, Miramar, and Dundee Precious Metals. Sabina acquired the Back River Properties in 2009 and has used it every year since that time to support ongoing exploration and baseline data collection.

MLA Activities: The MLA area has not been used for exploration or development works in the past.

CAMP LOCATION

8. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

Not applicable.

9. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs.

Not applicable.

10. Is the camp or any aspect of the project located on:

[X] Crown Lands Permit Number (s)/Expiry Date: Oct 31, 2014
Land Use Permit N2010C016

[ ] Commissioners Lands
Permit Number (s)/Expiry Date: _____N/A_____

[X] Inuit Owned Lands Permit Number (s)/Expiry Date: Dec 13, 2014
License No. KTL304C017

11. Closest Communities (direction and distance in km):

The Goose property area is located approximately 400 km south of Cambridge Bay and 160 km south of the hamlet of Bathurst Inlet.
The MLA is located approximately 15km from the hamlet of Bathurst Inlet.

12. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

Sabina maintains a community and government engagement program to discuss our current exploration programs and the development of the Back River Project. Most of our community discussions on water use and waste deposition have been of a general nature, with potential effects on water quality and quantity and potential

accidental spills. In response, Sabina has implemented a Transportation Management Plan and Spill Contingency Plan that incorporate regulatory requirements, best management practices, Traditional Knowledge, and community consultation commitments.

13. Will the project have impacts on traditional water use areas used by the nearby communities? Will the project have impacts on local fish and wildlife habitats?

The project is expected to have no impact on traditional water use areas by nearby communities. Precautions are taken to minimize impact on the local environment, and best management practices are employed to handle waste and cuttings. Should any concerns arise over traditional water use areas, Sabina will work with the affected parties to address them.

The project is expected to have no or minimal impact on local fish and wildlife habitat. Encounters with wildlife will be kept to a minimum through a policy of camp and work site cleanliness, no hunting or fishing from camp except with a valid permit from the Government of Nunavut, and no feeding of the animals. Hand-held air horns will be available to warn off bears and, if necessary, pepper spray will be used for self-protection rather than firearms. Camp personnel will be encouraged to report wildlife encounters and record the location any critical wildlife habitat that may be discovered, such as dens or nesting or spawning sites so as to avoid them in the future.

PURPOSE OF THE CAMP

14.
- ☐ Mining (includes exploration drilling)
- ☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- ☐ Other

Not applicable.

15. Activities (check all applicable)
- ☐ Preliminary site visit
- ☐ Prospecting
- ☐ Geological mapping
- ☐ Geophysical survey
- ☐ Diamond drilling
- ☐ Reverse circulation drilling
- ☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- X Other: Site preparation

16. Type of deposit (exploration focus):

- **X** Lead, Zinc
- Diamond
- **X** Gold
- ☐ Uranium
- **X** Other: Copper, Silver

DRILLING INFORMATION

Not applicable

17. Drilling Activities
    - ☐ Land Based drilling
    - ☐ Drilling on ice

18. Describe what will be done with drill cuttings?

19. Describe what will be done with drill water?

20. List the brand names and constituents of the drill additives to be used? Includes MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.

21. Will any core testing be done on site? Describe.

SPILL CONTINGENCY PLANNING

22. The proponent is required to have a site specific Spill Contingency Plan prepared and submitted with the application This Plan should be prepared in accordance with the *NWT Environmental Protection Act, Spill Contingency Planning and Reporting Regulations, July 22, 1998* and *A Guide to the Spill Contingency Planning and Reporting Regulations, June 2002*. Please include for review.

A Spill Contingency/ Emergency Response Plan and an Oil Pollution Emergency Plan are included in the appendices of this Water Licence Application.

23. How many spill kits will be on site and where will they be located?

Goose: Numerous spill kits will be located throughout the camp as outlined in the Spill Contingency Plan. At a minimum, spill kits will be located adjacent to areas where fuel or other hydrocarbons are involved (i.e. tank farm, helipads, generator shack, incinerator, dock, drummed fuel storage).

MLA Location: A spill kit will be located at the fuel storage area of the Temporary Laydown Area.

24. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

Goose:
Diesel fuel will be stored at the Goose Camp in the double-walled Envirotanks located within the lined, bermed tank farm. Up to 500,000L of fuel will be stored in an already approved facility at the existing Goose fuel storage area for use in the 2015 Site Preparation Activities.

A variety of substances are used in the day to day operation of the camp. Hydraulic fluid, motor oil and various lubricants are required for maintenance of vehicles and heavy equipment on site. These materials are currently stored in the former generator shed near the office complex which has been retrofitted with plastic sheeting and enviromat in the floor to serve as a secondary containment facility.

A number of products are used for cleaning and personal hygiene throughout the camp such as dish soap, laundry detergent, shampoo, and household cleaner. These materials are stored throughout the camp where needed, and are in containers typically not exceeding 1 L in volume. As such, any spill will be contained simply by the building within which the spill occurs and can be readily cleaned up, eliminating the need for any special storage requirements. The actual products may change depending on availability.

Sabina maintains a database of MSDS sheets for a large number of products which can be viewed by an inspector upon request.

MLA:
Up to 600,000L of diesel fuel will be stored in the temporary laydown area at the Marine Laydown Area in 100,000L double-walled Envirotanks. The tertiary containment for fuel tanks will be Arctic-grade manufactured instaberms or similar product. These will be placed on a stable foundation of interlocking swamp mats that will remain for the duration of the facility.

WATER SUPPLY AND TREATMENT

25. Describe the location of water sources.

Goose Lake will be the source of water to be used for the 2015 Site Preparation Activities.

Water to be used at the MLA will be brought in each day with the Site Preparation workforce from Goose.

26. Estimated water use (in cubic metres/day):

It is estimated that a maximum of 120m^3/day of water will be sourced from Goose Lake.

27. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? (see *DFO 1995, Freshwater Intake End-of-Pipe Fish Screen Guideline*) Describe:

Camp activities are covered under the existing Goose Water Licence 2BE-GOO1015.

For Site Preparation activities (winter access, dust suppression and compaction), the water intake will be the same as that used for camp operations . This is located adjacent to the dock at the Goose camp. It is equipped with a screen to prevent entrapment of fish.

28. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?

It should be noted that potable water use is not included in the scope of the 2015 Site Preparation Activities application as this water is covered under the existing Goose Water Licence 2BE-GOO1015.

Drinking water samples are collected weekly and submitted to Stanton Hospital for testing for pathogens (E. Coli.).

29. Will drinking water be treated? How?

It should be noted that potable water use is not included in the scope of the 2015 Site Preparation Activities application as this water is covered under the existing Goose Water Licence 2BE-GOO1015.

Drinking water is pumped into a holding pool located in a heated shed adjacent to the kitchen and dry facility. Any larger particles will settle to the bottom of the pool. Filtration is then used to remove smaller suspended material. Final treatment consists of UV and chlorination.

30. Will water be stored on site?

Water storage is not required for the 2015 Site Preparation Activities.

WASTE TREATMENT AND DISPOSAL

31. Describe the characteristics, quantities, treatment and disposal methods for:

It should be noted that the Goose Camp is permitted under NWB authorization 2BE-GOO1015 which includes waste types and quantities also linked to the 2015 Site Preparation Activities (i.e. sewage, domestic refuse from camp, greywater).

Solid Waste

The disposal method for combustible solid waste such as paper, cardboard, plastic, wood, burlap cloth, fuel or oil-soaked absorbent material, semi-solid waste from Pacto toilets and food preparation waste would be by burning in the camp incinerator. Any remaining ashes and unburned residue would be collected in cleaned 205 L drums, sealed for transport, and flown out for disposal at a suitable waste management facility.

Bulky Items/Scrap Metal

Empty drums are drained of residual fuel, crushed and strapped together for removal to Yellowknife and subsequent disposal at an approved facility or recycling as scrap metal. Larger items are packaged either in empty drums or on pallets and removed to Yellowknife for disposal at an appropriate facility, landfill or for recycling.

Waste Oil/Hazardous Waste

Waste oil and residual fuel is diluted with diesel and burned in the new waste oil furnace installed to provide heat for the Quonset.

Hazardous waste (as outlined in the Government of Nunavut Environmental Guideline
For General Management of Hazardous Waste) will be packaged appropriately, labeled, and backhauled to Yellowknife for disposal at an appropriate facility.

Empty Barrels/Fuel Drums

Empty drums are drained of residual fuel (stored for use in the waste oil furnace), crushed and strapped together for removal to Yellowknife and subsequent disposal at an approved facility or recycling as scrap metal.

☐ Other:

32. Please describe incineration system if used on site. What types of wastes will be incinerated?

A forced air – dual stage, diesel fueled incinerator system is used on site. Burnable solid waste such as paper, cardboard, plastic, wood, burlap cloth, fuel or oil soaked absorbent material, semi-solid waste from Pacto toilets and food preparation waste is disposed of by burning in the incinerator.

33. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?

Current waste management practices at the goose Camp will be maintained during the 2015 Site Preparation Activities:
Any remaining ashes and unburned residue from the incinerator are flown out for disposal or recycling at the Yellowknife landfill site. Drums of mixed hydrocarbons and water have also been trucked to a waste recycling and treatment site near Edmonton Alberta. Aluminum pop cans, and non-dairy, food grade plastic containers are collected and shipped to Yellowknife for recycling. Remaining non-combustible waste is bagged and shipped to the municipal landfill in Yellowknife.

34. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).

Not applicable for this application.

35. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?

Not applicable for this application.

OPERATION AND MAINTENANCE

36. Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place?

Not applicable. Camp activities are covered under the existing Goose Water Licence 2BE-GOO1015.

ABANDONMENT AND RESTORATION

37. Provide a detailed description of progressive and final abandonment and restoration activities at the site.

An Abandonment and Restoration Plan is included as Appendix H to this application.

BASELINE DATA

38. Has or will any baseline information be collected as part of this project?

- **X** Physical Environment (Landscape and Terrain, Air, Water, etc.)
- **X** Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
- **X** Socio-Economic Environment (Archaeology, Land and Resources Use,
- **X** Demographics, Social and Culture Patterns, etc.)
- **X** Other: Geochemical characterization, Engineering Studies.

REGULATORY INFORMATION

39. At a minimum, you should ensure you have a copy of and consult the documents below for compliance with existing regulatory requirements:

- ✓ ARTICLE 13 – *NCLA -Nunavut Land Claims Agreement*
- ✓ NWNSRTA – *The Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002*
- ✓ *Northwest Territories Waters Regulations, 1993*
- ✓ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
- ✓ NWB - Interim Rules of Practice and Procedure for Public Hearings
- ✓ RWED – *Environmental Protection Act, R-068-93- Spill Contingency Planning and Reporting Regulations, 1993*
- ✓ RWED A Guide to the Spill Contingency Planning and Reporting Regulations, 2002
- ✓ NWTWB - Guidelines for Contingency Planning
- ✓ *Canadian Environmental Protection Act, 1999 (CEPA)*
- ✓ *Fisheries Act, RS 1985* - s.34, 35, 36 and 37

- ✓ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
- ✓ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
- ✓ Canadian Council for Ministers of the Environment (CCME); Canadian Drinking Water Quality Guidelines, 1987
- ✓ Public Health Act - Camp Sanitation Regulations
- ✓ Public Health Act - Water Supply Regulations
- ✓ *Territorial Lands Act* and *Territorial Land Use Regulations*; Updated 2000