APPENDIX D – NWB SUPPLEMENTARY INFORMATION GUIDE FOR AMENDMENT 3 REQUEST (MAR 2012), AMENDMENT 2 REQUEST (NOV 2010), AMENDMENT 1 REQUEST (JUNE2010) AND WATER LICENCE RENEWAL (Dec 2009)

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NUNAVUT WATER BOARD
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OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

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

License 2BEGOO1015 – amendment 3 request (February 2012)

Only those sections of this questionnaire that are affected by the amendment request are included in the following. All other components and descriptions as outlined in Supplementary Questionnaire for licence renewal (Dec 2009), Supplementary Questionnaire licence amendment 1 (June 2010) and Supplementary Questionnaire amendment 2(Nov2010) remain the same. These Questionnaires are attached.

ADMINISTRATIVE INFORMATION

1. Environment Manager: _____ Tel:_____ Fax: _____ E-mail:

2. Project Manager: _____ Tel:_____ Fax: _____ E-mail:

3. Does the applicant hold the necessary property rights?

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

5. Duration of the Project

   ☐ One year or less Start and completion dates: _____
   ☐ Multi Year:

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

CAMP CLASSIFICATION

6. Type of Camp
   ☐ Mobile (self-propelled)
   ☐ Temporary
   ☐ Seasonally Occupied
   ☐ Permanent
   ☐ Other:_____

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

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

CAMP LOCATION

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

10. 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.

11. Is the camp or any aspect of the project located on:
[ ] Crown Lands Permit Number (s)/Expiry Date:

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

[ ] Inuit Owned Lands Permit Number (s)/Expiry Date:

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

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

Sabina representatives have not contacted the nearby communities regarding this amendment. We have discussed with NWB legislation, regulations and policies in order to determine optimal project boundaries to minimize overlap with adjacent water licenses.

14. 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 amendment to reduce project area and construction/operation of an all-weather airstrip and road is not expected to have an impact on traditional water use areas by nearby communities during the planned exploration season. This amendment is also expected to have minimal impact on local fish and wildlife habitat. This is principally because of design and mitigation measures to minimize the impact.

PURPOSE OF THE CAMP

15.
- ☐ Mining (includes exploration drilling)
- ☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- ☐ Other

16. 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)
- ☐ Other:

17. Type of deposit (exploration focus):

- ☐ Lead Zinc
- ☐ Diamond
- ☐ Gold
- ☐ Uranium
- ☐ Other

DRILLING INFORMATION

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

19. Describe what will be done with drill cuttings?

20. Describe what will be done with drill water?

21. 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.

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

SPILL CONTINGENCY PLANNING

23. 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 revised Comprehensive Spill Contingency Plan (CSCP) is included in Appendix 1

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

See CSCP

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

See CSCP

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

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

☐ Domestic Use: _____ Water Source: _____

☐ Drilling: _____ Water Source: _____

☐ Other: _____ Water Source: _____

28. 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:

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

30. Will drinking water be treated? How?

31. Will water be stored on site?

WASTE TREATMENT AND DISPOSAL

The updated Comprehensive Waste Management Plan is included in Appendix 2

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

× Camp Sewage (blackwater)

× Camp Greywater

× Solid Waste

× Bulky Items/Scrap Metal

× Waste Oil/Hazardous Waste

× Empty Barrels/Fuel Drums

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

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

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

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

OPERATION AND MAINTENANCE

37. 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?

ABANDONMENT AND RESTORATION

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

An updated A&R Plan is included with the NWB application (Appendix F)

BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography.

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

Baseline studies completed by Rescan Environmental Services in the area of the airstrip, road and rock quarries include:

Fish and Fish Habitat Memo, July 2011
Back River Airstrip ML/ARD Memo, Sept 2011
Goose Thermistor Summary, Oct 2010
Back River Ecosystem Overview at Proposed Airstrip and Quarries (Dec 2011)
2011 Archaeology of the Back River Project (in prep for submission to GN-CLEY)

REGULATORY INFORMATION

40. 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

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EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

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

License 2BEGOO1015 – amendment 2 request (November 2010)

Only those sections of this questionnaire that are affected by the amendment request are included in the following. All other components and descriptions as outlined in Supplementary Questionnaire for licence renewal (Dec 2009) and Supplementary Questionnaire licence amendment 1 (June 2010) remain the same. These Questionnaires are attached.

ADMINISTRATIVE INFORMATION

1. Environment Manager: Elizabeth Sherlock Tel: 604-998-4175 Fax: 604-998-1051
E-mail: esherlock@sabinagoldsilver.com

2. Project Manager: Peter Manojlovic Tel: 604-998-4175 Fax: 604-998-1051
E-mail: pmanojlovic@sabinagoldsilver.com

3. Does the applicant hold the necessary property rights?

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

5. Duration of the Project

☐ One year or less Start and completion dates: _____
☐ Multi Year:

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

CAMP CLASSIFICATION

6. Type of Camp

- ☐ Mobile (self-propelled)
- ☐ Temporary
- ■ Seasonally Occupied
- ☐ Permanent
- ☐ Other:_____

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

The camp currently accommodates up to 80 people, with an average daily population of 65. It is anticipated that increased drilling and other exploration activities would result in increasing personnel needs up to 120 people, with an average of ~95.

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

CAMP LOCATION

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

10. 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.

11. Is the camp or any aspect of the project located on:
[ ] Crown Lands Permit Number (s)/Expiry Date:

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

[ ] Inuit Owned Lands Permit Number (s)/Expiry Date:

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

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

Sabina representatives have not contacted the nearby communities regarding this amendment. We have discussed with KIA and INAC inspectors and reviewed GNDoE policies in order to determine best management practices and implementation of open burning at remote camps.

14. 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 amendment to increase water usage, include open burning in waste management and include water use, storage, collection/diversion and discharge are not expected to have an impact on traditional water use areas by nearby communities during the planned exploration season.

These amendments are also expected to have minimal impact on local fish and wildlife habitat. This is principally because of design and mitigation measures to be implemented to minimize the impact.

PURPOSE OF THE CAMP

15.
- ☐ Mining (includes exploration drilling)
- ☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- ☐ Other

16. 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)
- ☐ Other:

17. Type of deposit (exploration focus):

- ☐ Lead Zinc
- ☐ Diamond
- ☐ Gold
- ☐ Uranium
- ☐ Other

DRILLING INFORMATION

18. Drilling Activities
- ☐ Land Based drilling
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19. Describe what will be done with drill cuttings?

20. Describe what will be done with drill water?

21. 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.

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

SPILL CONTINGENCY PLANNING

23. 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.

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

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

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
Goose Lake and local lakes in area of temporary camps and drill sites

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

■ Domestic Use: 45m3/day (at Goose and temporary camps) Water Source: Goose Lake and local lakes to temporary camps

■ Drilling: 240m3/day Water Source: Goose Lake and local lakes

■ Other: 12m3/day Water Source: Goose Lake, local lakes, exploration, camp and associated infrastructure and disturbed areas.

28. 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: unchanged; as per current water license terms and conditions

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency? unchanged; as per current water license terms and conditions

30. Will drinking water be treated? How? unchanged; as per current water license terms and conditions

31. Will water be stored on site? unchanged; as per current water license terms and conditions

WASTE TREATMENT AND DISPOSAL

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

Waste management on-site will be revised to reflect the inclusion of controlled open burn conditions.

× Camp Sewage (blackwater)

Unchanged

× Camp Greywater

Unchanged

× Solid Waste

The disposal method of 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 would principally be by burning in the dual stage, forced air incinerator. It is estimated that on average up to approximately 20 garbage bags (121L capacity) of burnable waste would be generated each day.

On occasion, the volume of the untreated wood products (e.g. paper, cardboard, and wood) is very large because of resupply, construction and reclamation activities. At these times, the waste management would include open controlled, open burning conditions. It is challenging to estimate this volume since it would vary with resupply, camp population, camp maintenance and progressive reclamation. It is assumed that approximately half of the combustible material (1m3/day) may be generated and open burn completed on a regular period approximately every 2-3 days depending on weather conditions.

Any remaining ash and unburned residue from the incinerator or open burn would be collected in cleaned 205L drums, sealed for transport and flown out for disposal at a suitable, approved Hazardous waste management facility.

× Bulky Items/Scrap Metal

All large metal waste items such as used drill steel, broken or worn out mechanical parts and 205 litre (45 gallon) drums used for fuel transport would be flown back to Yellowknife for recycling or for disposal in an approved waste disposal site. Any bulky waste items would be burned under controlled conditions, or cut up and burned in the Goose camp incinerator or would be flown out for disposal at the Yellowknife landfill site. The quantity produced is estimated to be approximately 1-2 Twin Otter plane load every week, most of which would be empty fuel drums.

× Waste Oil/Hazardous Waste

Unchanged

× Empty Barrels/Fuel Drums

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33. 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 would is disposed of by burning in the incinerator.

At times, the volume and/or size of some of this material cannot be accommodated by the incinerator capacity. Under controlled conditions untreated wood products such as paper, wood and cardboard would be burned in an area located 30m above the local waterways and downwind of camp facilities.

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

Unchanged

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

Unchanged

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

The open burn area would be located such that water would not accumulate in the area, however, if there is any ponded water, it will be sampled for parameters as identified in current water licence.

Diversion and collection systems will be included as needed in the final design of the airstrip and roadway. Water monitoring program as outlined in the current water license will be expanded to include these areas as needed.

OPERATION AND MAINTENANCE

37. 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?

The waste treatment of controlled open burning is a proven disposal method in Nunavut used by the communities and other proponents as part of their waste management.

ABANDONMENT AND RESTORATION

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

The A&R Plan remains unchanged with the amendments of increased water volume use and inclusion of open burning.

BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography.

Preliminary environmental baseline data was collected during the 2010 exploration program to support compliance requirements and on-going feasibility studies associated with advanced development. This included weather data (e.g. wind speed, wind direction and temperature), archaeology surveys, preliminary fish species and fish habitat assessment, and ARD/ML characterization. These programs will continue in 2011, to focus and improve data collection in the area.

- [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,
- [ ] Demographics, Social and Culture Patterns, etc.)
- [x] Other: ARD/ML

REGULATORY INFORMATION

40. 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