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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Solstice Gold Corp. **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: **Ian Russell** Tel: **807-728-3882** Fax: __E-mail: **irussell@solsticegold.com**

2. Project Manager**:** **Ian Russell** Tel: **807-728-3882** Fax: __E-mail: **irussell@solsticegold.com**

3. Does the applicant hold the necessary property rights? Yes

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization.
Application completed by APEX Geoscience Ltd. on behalf of Solstice Gold Corp. See attached "*Solstice Kahuna Gold Property APEX Authorization Letter*."

5. Duration of the Project

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

If Multi-Year indicate proposed schedule of on site activities
Start: February 1 Completion: September 30, annually.

CAMP CLASSIFICATION N/A

The Kahuna Gold Property mineral exploration programs will be supported by a temporary, seasonal exploration camp with fuel cache, located in the southern portion of the Property (575940E/ 6990898N, NAD83 Zone 15) on Mineral Claim K90309, 100% owned by Solstice. The Kahuna Camp is currently authorized under Crown-Indigenous Relations and Northern Affairs Canada ("CIRNAC") Land Use Permit ("LUP") N2015C0019 and NWB water licence 2BE-KDP1722, held by Dunnedin Ventures Inc. ("DVI"). An agreement between the companies is in place allowing DVI to have a camp on a mineral claim, which is owned 100% by Solstice and authorizing Solstice to use the camp, which is permitted/licenced by DVI.

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: _____
- ☐ 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?

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?

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

- **X** Land Based drilling
- **X** Drilling on ice

19. Describe what will be done with drill cuttings?

The drill waste, including water, cuttings and muds will be disposed of in a properly constructed sump or an appropriate natural depression; at least 31 m from the ordinary high-water mark of any waterbody, where direct flow into a waterbody is not possible and no additional impacts are created.

20. Describe what will be done with drill water?

Drilling will utilize recirculation and filtration systems to minimize loss of water and drill additives. Nontoxic and bio-degradable drilling fluids will be used at all times where ever possible. Drilling fluids will be directed into a properly constructed sump or an appropriate natural depression, at least 31 m from the ordinary high-water mark of any waterbody, where direct flow into a water body is not possible and no additional impacts are created. If any artesian water flow is detected, the hole will be plugged immediately and cemented in bedrock to prevent continued flow.

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.

The exact drill additives are not known at this time, but Solstice will ensure that the drilling contractor maximizes the use of non-toxic and biodegradable additives. The "*Kahuna Gold Property Spill Prevention and Response Plan*" will be updated with appropriate MSDS sheets once any additional additives are determined.

However, until confirmed, it is assumed that the following materials may potentially be present at the drill site:

- drill fluid additive "550X polymer" (consists of copolyacrylamide / sodium acrylate; Non Toxic)
- tube grease - Beacon 2, Z-50 pipe dope (Non Toxic)
- circulation polymer – G-stop (Non Toxic)
- antifreeze –Beet juice antifreeze (Non Toxic)
- antifreeze –Petro-Canada
- rod grease – Big Bear diamond drill rod grease (Non Toxic)
- motor oil – super plus SAE 10W30 and 15W-40 (Non Toxic)
- hydraulic oil –Harmony AW 22, 32, 46, 68 (Non Toxic)
- Linseed Soap – (Non Toxic)
- Portland cement

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

Core will be cut and sampled at the camp, but all analytical testing will be performed in an accredited laboratory off site.

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.

See the "*Kahuna Gold Property Spill Prevention and Response Plan*."

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

Spill kits and firefighting equipment will be strategically located near where any fuel or other hazardous material is used, stored or transferred, such as drill sites and any fuel caches. See the "Kahuna Gold Property Fuel Management Planand Spill Prevention and Response Plans for additional information.

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

The majority of Solstice Kahuna Gold Project fuel will be stored at the Kahuna Camp authorized under CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI. If required, a separate Solstice fuel cache containing a maximum of 300 drums (61,500 L) may be established adjacent to the Kahuna Camp. Small amounts of fuel (~ 5 drums) will be required to be stored at the drill sites. In addition, small (less than 4,000 L) temporary fuel caches, may be required to supply the drilling and exploration programs. Within 10 days of the establishment of any fuel cache, CIRNAC, NWB and the KIA (if on IOL) will be notified of the details of the cache including: coordinates, fuel type, container sizes, method of storage, type of secondary containment and proposed date of removal. The fuel cache coordinates will also be included in the annual reports submitted to CIRNAC, NWB and the KIA.

Diesel, jet fuel, and gasoline will be stored in 205 litre (L) steel drums. All fuel and other hazardous materials located at drill sites or fuel caches will be stored within "Arctic Insta-Berms", or similar products, for secondary containment. These types of berms utilize chemical and fire-resistant fabric (generally polyurethane coated nylon or vinyl coated polyester material) designed for extreme arctic temperatures and puncture resistance. "RainDrain" or similar hydrocarbon filtration systems will be used to safely remove any water collected inside secondary containment berms, and as a safeguard against any potential overflows of contaminated water. All hazardous materials will be used, stored or transferred a minimum distance of 31 m from the normal high-water mark of any waterbody. Spill kits and firefighting equipment will be strategically located near where any hazardous materials are stored, used or transferred, including drill sites, fuel caches and in the helicopter.

Drums will be inspected prior to being transferred to the camp fuel cache, drill sites or temporary fuel caches to identify any defects (i.e. torn, missing, or twisted gaskets, etc.); a second inspection will be performed upon arrival at the storage location. Regulations outlined in the Transportation of Dangerous Goods Act, and other relevant legislation, will be observed at all times during transport. Fuel drums will be slung by helicopter as needed to drill sites or exploration fuel caches. Empty drums will be removed from drill sites or exploration caches and returned to the Kahuna Camp for proper handling as per the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI.

Fuel drums will be stored on their sides in organized rows with the bungs in the three o'clock and nine o'clock positions. Drums will be stood upright 1 to 2 days prior to use in order to allow any contaminants to settle.

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Chemicals

Chemicals to be used on site may include household-strength cleaning supplies such as Javex, ammonia-based window/countertop sprays, wash soaps, degreasers, etc. In addition, limited miscellaneous items such as insect repellent and aerosols will be available. All items will be stored in their original containers in their respective storage/use areas and removed to the Kahuna Camp for proper storage and final transported to an accredited disposal facility in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI.

All containers storing hazardous materials will be inspected for dents, punctures, etc. prior to being transported to or from the Kahuna Camp. Extreme care will be taken in the process of transferring all chemicals/chemical solutions/fuels/etc. Funnels will be utilized to direct small amounts of liquid to reduce the potential of spillage. Spill mats will be in place when transferring/refueling.

Motor Oil

When drilling commences, an average of approximately 20 L of motor oils and hydraulic oils will be maintained at the drill. The products will be supplied in 1L or 5 L plastic containers and stored in the hazardous materials area near the drill in spill containment pallets or within Arctic Insta-Berms (or similar) for secondary containment.

Drill Mud/Additives

All drill additives will be non-toxic and biodegradable, whenever possible. The diamond drilling may use modest amounts of additives depending on rock conditions. When drilling is under way, the contractor responsible will store the required drilling muds, additives, oils and lubricants in the hazardous materials area near the drill in spill containment pallets or within Arctic Insta-Berms (or similar) for secondary containment. The drill additives will be transferred according to the manufacturer's guidelines and the operating procedures of the drill contractor.

Antifreeze

Drilling programs completed in temperatures below freezing will utilize non-toxic Beet Juice Antifreeze and only resort to chemical antifreeze if absolutely necessary.

Lead Acid Batteries

Lead acid batteries may be present at the drill rigs. Any lead acid batteries at drill sites will be kept in in the hazardous materials area near the drill in spill containment pallets or within Arctic Insta-Berms (or similar) for secondary containment. At no time will any batteries be put in the garbage; nor will they be incinerated.

Secondary containment measures for other chemicals and hazardous materials will be provided according to the nature of the material (liquid vs. solid), the quantity stored and the manner of use. For liquid products spill containment pallets will be provided underneath the product containers. For solids, tarps and/or polyethylene sheets will be placed under the pallets or the bags/pails of product where significant quantities are stored. As at at any re-fuelling stations, appropriate spill kits will be located at the drill site and remote temporary fuel cache.

Chemicals will generally be transferred directly to the end use machinery from the containers that the products were provided in. Considering the nature of the operations, generally less than 20 L of product will be transferred at a time. Spill kits will be kept on hand to clean up any product spilled in the transfer process. For any solid products, the bags will be opened directly over the intended use tanks into which the product will be placed. Used chemical products will be returned to empty containers and stored for shipment off-site. Used motor oil will be accumulated in sealed, labeled 20 L pails for shipment off-site.

For the drilling materials, the containers will be slung with a helicopter and deployed at the drill site. Appropriate spill kits, including empty containers for contaminated soil, will be kept on hand to clean up any product spilled. For additional information, see the "*Kahuna Gold Property Fuel Management Plan*" and "*Kahuna Gold Property Spill Prevention and Response Plan*" for additional information and MSDS.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
Water will be drawn for drilling from numerous waterbodies within the Property Boundary (See "*Kahuna Gold Property Location Figure*"). Care will be taken to ensure that water is drawn from bodies with sufficient capacity in order to avoid impact on waterbody level or watercourse flow.

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

☐ Domestic Use: _____ Water Source: _____
X Drilling: 200 m^3/day for drilling (100 m^3/day per drill) Water Source: Numerous unnamed sources
☐ 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:

The drill pumps typically use a 1" inside diameter suction hose on the diesel pump with a fine screen on the foot valve. For drilling, a fiberglass window screen with a nominal opening size of less than 1/16" is also generally wrapped around the foot valve to prevent the intake of silt and sand into the pump, which can cause considerable damage to the pump chambers. In addition, it is common practice for the drilling contractor to place the foot valve of the intake hose in a perforated 20 L pail, which further protects against harmful materials and fish being entrained into water intake hoses.

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

Drinking water quality will be monitored at the camp in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI.

30. Will drinking water be treated? How?

Water will be treated in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI.

31. Will water be stored on site?

Water will be stored at camp in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI.

WASTE TREATMENT AND DISPOSAL

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

☐ Camp Sewage (blackwater)

Camp sewage will be managed at the Kahuna Camp in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI.

☐ Camp Greywater

Camp greywater will be managed at the Kahuna Camp in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI.

X Solid Waste

All solid waste will be backhauled to the Kahuna Camp for incineration or transportation to an accredited disposal/recycling facility in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI. See the Kahuna Gold Property Waste Management Plan for additional information.

X Bulky Items/Scrap Metal

All bulky items or scrap metal that cannot be reused at the drill site will be backhauled to the Kahuna Camp for transportation to an accredited disposal/recycling facility in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI. See the Kahuna Gold Property Waste Management Plan for additional information.

X Waste Oil/Hazardous Waste

All waste oil or other hazardous waste will be backhauled to the Kahuna Camp for transportation to an accredited disposal facility in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI. See the Kahuna Gold Property Waste Management Plan for additional information.

X Empty Barrels/Fuel Drums

All empty drums will be backhauled to the Kahuna Camp for transportation to an accredited disposal/recycling facility in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and

NWB water licence 2BE-KDP1722, held by DVI. See the Kahuna Gold Property Waste Management Plan for additional information.

X Other: Drilling Greywater

Drilling will utilize recirculation and filtration systems to minimize loss of water and drill additives. Nonhazardous and bio-degradable drilling fluids will be used at all times where ever possible. Drilling fluids will be directed to a properly constructed sump or an appropriate natural depression, at least 31 m from the ordinary high-water mark of any waterbody so direct flow into a waterbody is not possible and no additional impacts are created. If available, coarse gravel will be placed in the bottom of the sump to provide filtration, and supports will be built on the sides to prevent slumping. When full, sumps will be covered with enough material to allow for future ground settlement. See the "*Kahuna Gold Property Waste Management Plan"* for additional information.

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
An incineration system will be used at the Kahuna Camp in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?
All waste at the Kahuna Camp that cannot be incinerated will be handled in accordance with the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).
Drilling greywater will be stored and treated in an excavated sump or natural depression. Both methods will allow for slow infiltration into the soil and will be located at least 31 m away from the ordinary high-water mark of any waterbody. If available, coarse gravel will be placed in the bottom of the sump to provide filtration, and supports will be built on the sides to prevent slumping. Sumps will ideally maintain a minimum 1 metre freeboard at all times. The sumps and pipes will be inspected at regular intervals for leaks or overflow. When full, greywater sumps will be covered with enough material to allow for future ground settlement.

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

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 water supply and disposal methods have been employed in a multitude of exploration projects throughout Nunavut and are considered safe and common practice. No problems are anticipated, but numerous contingency plans, such as the "*Kahuna Gold Property Spill Prevention and Response Plan*" will be in place to ensure any issues are dealt with quickly and efficiently.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
Solstice will carry out progressive reclamation of all exploration and drill sites. The progressive reclamation activities will include, but not be limited to:

- Photos will be taken at each drill site before and after drilling operations.
- All drill equipment and fuel will be moved to the next drill site immediately.

- All garbage, debris and empty drums will be backhauled to the Kahuna Camp to be managed as per the terms and conditions of CIRNAC LUP N2015C0019 and NWB water licence 2BE-KDP1722, held by DVI.
- Completed drill holes will be plugged and cemented in bedrock and drill casing will either be removed or if removal is not possible, will be cut off below ground level.
- Any spills will be treated as per the "*Kahuna Gold Property Spill Prevention and Response Plan*."
- No material or residue will be allowed to accumulate on the lake ice surface. Any material that may become frozen into the ice during the drill operations will be chipped out and removed for proper disposal.

See the "*Kahuna Gold Property Abandonment and Restoration Plan*" for additional information.

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.)
- X Socio-Economic Environment (Archaeology, Land and Resources Use,
- ☐ Demographics, Social and Culture Patterns, etc.)
- ☐ Other: _____

Consultation to inform stakeholders and gain Qaujimajatuqangit has occurred on the Project since July 2015, historically for diamond exploration. Solstice Gold began joint consultations in the communities in March 2018 with DVI. Solstice acquired the Kahuna Gold project from DVI. Further joint consultations took place in May 2018. Specific consultations with regards to this planned submission were conducted in August 2018 and included representatives from Hunters and Trappers Organization ("HTO") of Chesterfield and Rankin Inlets, a director from the KIA, the Mayor and Senior Administrative Officer ("SAO") from Chesterfield Inlet. In September meetings were held in Rankin Inlet with the HTO, the KIA Lands Department, the MLA for Rankin North and a well-attended Community Meeting. In Chesterfield Inlet meetings were held with the Hamlet in addition to a community meeting. In October, additional meetings were held in Rankin Inlet between Solstice and the Mayor of Rankin, SAO for Rankin, HTO of Rankin and the Government of Nunavut Economic Development and Transportation representatives.

See "Kahuna Gold Property Consultation Log" updated October 16, 2018 and "Hamlet of Chesterfield Inlet Support Letter for Solstice Gold." A letter of support is also anticipated from Hamlet of Rankin Inlet and will be submitted to CIRNAC, the NWB and the KIA when received.

In April 2016, Golder Associates Ltd. ("Golder") conducted a search of the Nunavut Archaeological Site database and found that no previously recorded sites had been documented or any archaeological assessments been carried out within the Kahuna Diamond Property.

Between August 28 and September 1, 2016, Golder conducted an archaeological inventory and reconnaissance of proposed exploration areas within DVI Kahuna Diamond Property, portions of which cover the current Solstice Kahuna Gold Property. Approximately 1,348 ha of land were examined as well as two low level aerial passes were carried out along the 46 km long winter trail from Rankin Inlet to the claim area. A total of 10 sites were identified, 2 within proposed exploration areas and the rest were located adjacent to exploration or winter trail boundaries, or along Josephine Lake while flying between areas.

The geographic coordinates of the archaeological sites identified in the 2016 survey were provided to DVI and subsequently to Solstice so that the sites and associated features can be incorporated into Project planning and avoided during exploration activity.

In the summer of 2018, Nuqsana Golder was commissioned by DVI to complete another archaeological field investigation a number of drilling targets, including some on the current Solstice Gold Property and the Kahuna Camp location. The areas were examined for archaeological resources using a combination of aerial (low-level helicopter) and ground (pedestrian transects) surveys. The locations of any identified

archaeological sites were recorded, mapped with a hand-held GPS unit, and photographed. The final report has not yet been completed by Nuqsana Golder, but when finalized will be provided to Solstice Gold Corp. by DVI to use for the Kahuna Gold Project planning.

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