

Project Dashboard

Kahuna Gold Property (149461)

Proposal Status: Conformity Determination Issued

Project Overview

Type of application: **New**

Proponent name:	Martin Tunney
Company:	Solstice Gold Corporation

Schedule:

Start Date:	2021-03-16
End Date:	2021-09-30
Operation Type:	Annual

Project Description:

Solstice is applying for an amendment to their Nunavut Water Board Water ("NWB") Licence, 2BE-KGP1823, and Crown-Indigenous Relations and Northern Affairs Canada ("CIRNAC") Land Use Permit, N2018C0020, to establish a 40-person camp on the Property. The water licence amendment will also include an increase in the water allowance from 200 m3/day (for drilling) to 299 m3/day (10 m3/day for the new camp and 289 m3/day for drilling). Solstice is applying to the Kivalliq Inuit Association ("KIA") to renew Inuit Land Use Licenses KVL318B01 and KVRW18F02, which authorize prospecting, exploration, drilling and use of the Kahuna Winter Road. The Kahuna Gold Property is located on Crown land and Inuit Owned Land ("IOL") in the Kivalliq Region of Nunavut. The Property is approximately 10 km southwest of Igluligaarjuk (Chesterfield Inlet) and 30 km northeast of Kangirliniq (Rankin Inlet). The Property comprises 72 mineral claims (79,567.46 ha) held 100% by Solstice Gold Corp. and 19 mineral claims held jointly with Kodiak Copper Corp. ("Kodiak," formerly Dunnedin Ventures Inc.). Solstice Gold Corp. has primary rights on 9,022 ha of the jointly held claims, for a total Property area of 88,589 ha. Solstice proposes annual exploration programs which will include general exploration activities such as rock, soil, and till geochemical sampling, geological mapping, ground and/or airborne geophysical surveys and up to 20,000 m of diamond or reverse circulation ("RC") drilling. The annual programs may commence as early as February 2021, beginning with mobilization of equipment and supplies the overland Kahuna Winter Trail from Rankin Inlet to the Property. Drilling could commence mid-March to mid-May to test targets below lakes, with drilling of land targets commencing mid-June through September. Ground based prospecting and sampling activities would follow in June. Exploration activities will be supported by ground access in the winter where conditions allow, utilizing tracked vehicles to facilitate crew changes and drill moves. A helicopter and/or fixed wing aircraft will be on site and will be utilized for mobility when ground access is not feasible. Previous work on the Property was supported out of Kodiak's Kahuna Camp (2018), Rankin Inlet (2019) or from a small temporary fly camp (2020). A new 40-person Solstice camp will be required to support proposed exploration activities going forward. The camp structures may include up to 16 sleeper tents, medical tent, kitchen, dry tent, office, shop, core shack, core cutting shack, generator housing, incinerator, and toilet facilities. The Solstice fuel cache currently permitted adjacent to the Kodiak Kahuna camp will be moved to the new Solstice camp.

Personnel:

Persons:	40
Days:	242

Project Map

List of all project geometries:

ID	Geometry	Location Name
7019	point	Proposed_Solstice_Camp_Location_n83z15_20200119
7023	polygon	Solstice_Kahuna_Gold_Drilling_Area_n83z15_20210119
7024	polygon	Solstice_Kahuna_Gold_Mineral_Claims_n83z15_20210119
7025	polygon	Solstice_Kahuna_Gold_Property_Outline_n83z15_20210126

Planning Regions:

Kitikmeot

Affected Areas and Land Types

Inuit Owned Surface Lands

Settlement Area

Keewatin Planning Region

Project Land Use and Authorizations**Project Land Use**

Mineral Exploration

Mineral Exploration

Winter Access

Licensing Agencies

NWB: Type B Licence

INAC: Class A Land Use Permit

KivIA: Land Use Licence III

KivIA: Right of Way Agreement

NIRB: Screening Decision Report

Other Licensing Requirements

No data found.

Material Use**Equipment**

Type	Quantity	Size	Use
Fixed Wing Aircraft	1	Twin Otter or similar	Transport equipment and personnel to camp.
Helicopter	1	A-star or similar	Transport equipment , supplies and personnel.
Generator	4-6	Honda 5 kW or similar	Provide electricity for drilling.
Generator	1-2	Powerline KS1400-T3 (14 kVA) or similar	Provide electricity to camp.
Water Pump	1-2	2.5-5 HP gas pump or similar	Camp water supply.
Water pump	2-3	Kubota KF40 or similar	Drilling water supply.

Dual chamber controlled air incinerator	1	Inciner8 I8-20S or similar	Incineration of waste.
Diamond drill	1-2	heli-portable Boyles 17 A, Zinex A5 (or similar)	Core sample collection.
Snowmobile	2	350cc	Transportation - crews, supplies & equipment.
All Terrain Vehcile	1-2	350cc	Transportation - crews, supplies & equipment.
Small Aluminum Boat	1	14-16 ft utility boat	Lake bottom bathymetry survey and transportation.
Caterpillar Challenger 65s (with steel sleds)	2	Challenger 65s (or similar)	Mobilize/transport equipment and supplies.

Fuel Use

Type	Container(s)	Capacity	UOM	Use
Aviation fuel	145	205	Liters	Fuel for aircraft.
Gasoline	10	205	Liters	Fuel for ATVs and generators.
Propane	20	100	Lbs	Fuel for stove and hot water heater.
Diesel	145	205	Liters	Fuel for generators and drills.

Hazardous Material and Chemical Use

Type	Container(s)	Capacity	UOM	Use
Oil	5	4	Liters	Oil for ATVs and generators.
CaCl2	1500	50	Lbs	Drilling.

Waste oil	1	5	Liters	Used oil unable to be repurposed/burnt in a waste oil burner.
Bleach	2	2	Liters	Cleaning.
Various cleaning supplies	20	1	Liters	Cleaning products such as Lysol, Clorox, Windex.
Hydraulic oil	50	20	Liters	Drilling. Majority of oil is on site in the event of unforeseen mechanical failure.
Gun grease	1	1	Liters	Lubrication

Water Consumption

Daily Amount (m ³)	Retrieval Method	Retrieval Location
299	The water intakes for the camp will use an electrically powered submersible pump with a fine screen (<1/4" openings) on the intake. The drill pumps 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	Drilling: numerous unnamed sources proximal to drilling locations. Camp: unnamed lake proximal to camp.

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.

Waste and Impacts

Environmental Impacts

Solstice Gold Corp. is firmly committed to the protection and conservation of the natural environment and to ensuring the health and safety of all employees, contractors, and people in surrounding communities. Potential environmental impacts of the Kahuna Gold Property are negligible and mitigatable with little impacts on the environment. Effort will be made to avoid disturbances of wildlife and the environment. Denning and nesting sites will be avoided, and the locations recorded and provided to the regional wildlife authorities. All archaeological sites will be respected and reported immediately. There will be no discharge of any kind into any water bodies. No drilling will be performed, or sump created within 31 m of the normal high-water mark of any water body. Additionally, all hazardous materials will be placed in secondary containment and stored a minimum of 31 m from the normal high-water mark of any water body. All waste materials will be incinerated, reused, recycled and/or disposed of at an accredited facility. For further details please see the attached Spill Prevention and Response Plan, Fuel Management Plan, Waste Management Plan, Abandonment and Restoration Plan and Environmental Management Plan.

Waste Management

Waste Type	Quantity Generated	Treatment Method	Disposal Method
Combustible wastes	Negligible to low	See attached Waste Management Plan for details on individual waste types.	A batch feed dual-chamber controlled air incinerator to dispose of combustible solid waste. All combustible wastes will be burned in accordance with applicable federal and territorial regulations and the Nunavut Department of Environment Guideline for Burning and Incineration of Solid Waste.
Greywater	10 m ³ /day	Disposed of in dry pits	Sumps.

		located adjacent to camp; allowed to percolate into overburden; minimum 30 m from water sources.	
Hazardous waste	5 L	See attached Waste Management Plan for details on individual waste types.	All opportunities will be taken to reuse or recycle hazardous waste materials. All hazardous wastes will be placed in sealed containers, labeled and stored within Arctic Inst-Berms, or similar, for secondary containment until they can be reused or backhauled for proper recycling/disposal. A hazardous waste storage area will be established adjacent to the main fuel cache.
Non-Combustible wastes	Negligible	See attached Waste Management Plan for details on individual waste types.	Backhauled and recycled or disposed of properly.
Sewage (human waste)	40 people	See attached Waste Management Plan for details on	Incineration.

individual
waste types.