



NIRB Uuktuutinga Ihivriughikhamut #125523

Hope Bay and Elu greenstone belt mapping project

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Scientific Research

Uuktuutinga Ublua: 5/19/2020 6:18:10 PM

Period of operation: from 0001-01-01 to 0001-01-01

Piumayaat Angirutinga: from 0001-01-01 to 0001-01-01

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QANURITTUT

Tukihiannaqtunik havaariyaumayumik uqauhiuyun

Qablunaatitut: The Hope Bay and Elu greenstone belts are known gold and base metal endowed areas located in the Slave craton of western Nunavut (Kitikmeot Region). Both greenstone belts are largely claimed by TMAC Resources, where gold is produced at the Doris and Madrid properties. Although they have been explored by industry since the 1960's, and mapped regionally by the GSC, detailed work is warranted in many targeted prospective areas. The purpose of this initiative is to collaborate with TMAC and conduct research in a targeted area with suspected extensions of a known gold deposit. This endeavour will expand our understanding of the economic potential of the Hope Bay and Elu greenstone belts, and by extension of other greenstone belts in Slave craton. The project will have field work from Jul 21st – August 4th at the Doris camp, summer 2020. The field crew will be transported by helicopter daily to the field area. Timing may vary due to weather and camp availability. Field work will continue in 2021 for 3-4 weeks, exact dates are to be determined. The goal of this project is to create a targeted 1:10 000 – 1:15 000 geologic map on the Hope Bay greenstone belt property. This geologic map should include items of mineral exploration interest (e.g., economic mineral showings, alteration, major structures, volcanic stratigraphy).

Uiviititut: N/A

Inuktitut: N/A

Inuinnaqtun: N/A

Personnel

Personnel on site: 6

Days on site: 14

Total Person days: 84

Operations Phase: from 2020-07-19 to 2020-08-02

Hulilukaarutit

| Inigiya | Hulilukaarut Qanurittuq | Nunannga Qanurittaakhaanik | Initurlinga qanuritpa | Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannguqtut akhuurninnga | Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaliyainnit nuna |
|-------------------------|----------------------------|-------------------------------|--------------------------|--|--|
| New project geometry | Researching | Inuit Owned Surface Lands | N/A | N/A | N/A |

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

| Nunauyuq | Atia | Timiuyuq | Upluani Uqaqatigiyaungmata |
|------------------------------|------|----------|-------------------------------|
| Information is not available | | | |

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Kitikmeot

Angiuttauvaktunik

| Munariniqmut Ayuittiaqtuq | Angirutinga Qanurittuq | Tadja Qanurittaakhaanik | Ublua Tuniyauyuq/Uuktuqtuq | Umikvikhaa Ublua |
|------------------------------|---------------------------|----------------------------|-------------------------------|------------------|
| Information is not available | | | | |

Project transportation types

| Transportation Type | Qanuq Atuqtauniarmangaa | Length of Use |
|------------------------|-------------------------|---------------|
| Air | Helicopter | |

Project accomodation types

Temporary Camp

Ihuaqutivaluin Atuqtauyukhan

Hanalrutit atuqtaunahuat (ukuallu ikuutat, pampiutainnik, tingmitinik, akhaluutinik, hunaluuniit)

| Hanalrutit Qanurittuq | Qaffiuyut | Aktikkulaanga – Qanurittullu | Qanuq Atuqtauniarmangaa |
|-----------------------|-----------|------------------------------|--|
| Scientific equipment | 1 | 30X10 cm | handheld instruments: portable X-Ray Fluorescence (pXRF), Laser Induced Breakdown Spectroscopy (LIBS), Magnetic susceptibility meters. (all devices to measure characteristics of rocks) |

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

| Qanurittuq urhuqyuaq hunavaluit aturninnga: | Urhuqyuaq Qanurittuq | Qaffiuyut qattaryut | Qattaryuk Aktikkulaanga | Atauttimut Qaffiuyut | Ilanga | Qanuq Atuqtauniarmangaa |
|---|----------------------|---------------------|-------------------------|----------------------|--------|--|
| Aviation fuel | fuel | 1900 | 1 | 1900 | Liters | Jet A use in helicopter. - bulk fuel from Doris (no drums). 1 hr use of helicopter/dayfuel consumption 135 litres/hr135 litres * 14 = ~1900 litres |

Imaqmik Aturninnga

| Ubluq qanuraaluk (m3) | Aturumayain imavaluin utiqittagaani qanuq | Atulirumayain imavaluin utiqittagani humi |
|-----------------------|---|---|
| 1 | Doris mining camp facilities | Doris Camp (owned by TMAC) |

Iqqakuq

Ikkakunik Munakgiyauyunik

| Havauhikhaq Hulilukaarut | Qanurittuq Iqqakut | Ihumagiyauyuq Qanuraaluktut Atuqtait | Qanuq Iqqakuurniarmangaa | Halummaqtirarnirutikhan piyutin |
|-----------------------------|-----------------------------|--|---|------------------------------------|
| Researching | Qimnarivyaktuq imaq | 26,600 litres | Doris mining camp facilities (shower, toilet, kitchen)average 329 litres per day per person | N/A |
| Researching | Anaagun (inuin anaaguin) | 74 lbs | toilets in camp (average person has 400g of waste per day) | N/A |

Avatiliriniqmut Ayurhaulingit:

This is a minimalistic project that will be based out of current infrastructure at the Doris mining camp owned by TMAC Resources Inc. Only 6-8 people will participate (geologists and pilots+engineers). All waste disposal in the camp will follow TMAC Resources Inc.'s protocols and regulations. Waste that is made in the field (lunch wrappings) will be packed and disposed of at the Doris camp facilities. There will be no waste left in the field. The noise from helicopters can cause impacts on wildlife. We will assure that if any large mammals such as polar bears, caribou, muskox and wolves are seen , we will vacate the area and work somewhere else for the day. The helicopter will fly at an appropriate altitude to reduce the stress on animals below.

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

Qanurittuq Ittunik Avatinga: Avatingalluanga

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

Miscellaneous Project Information

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit

Tamatkiumayunik Ihuikgutivaktunik

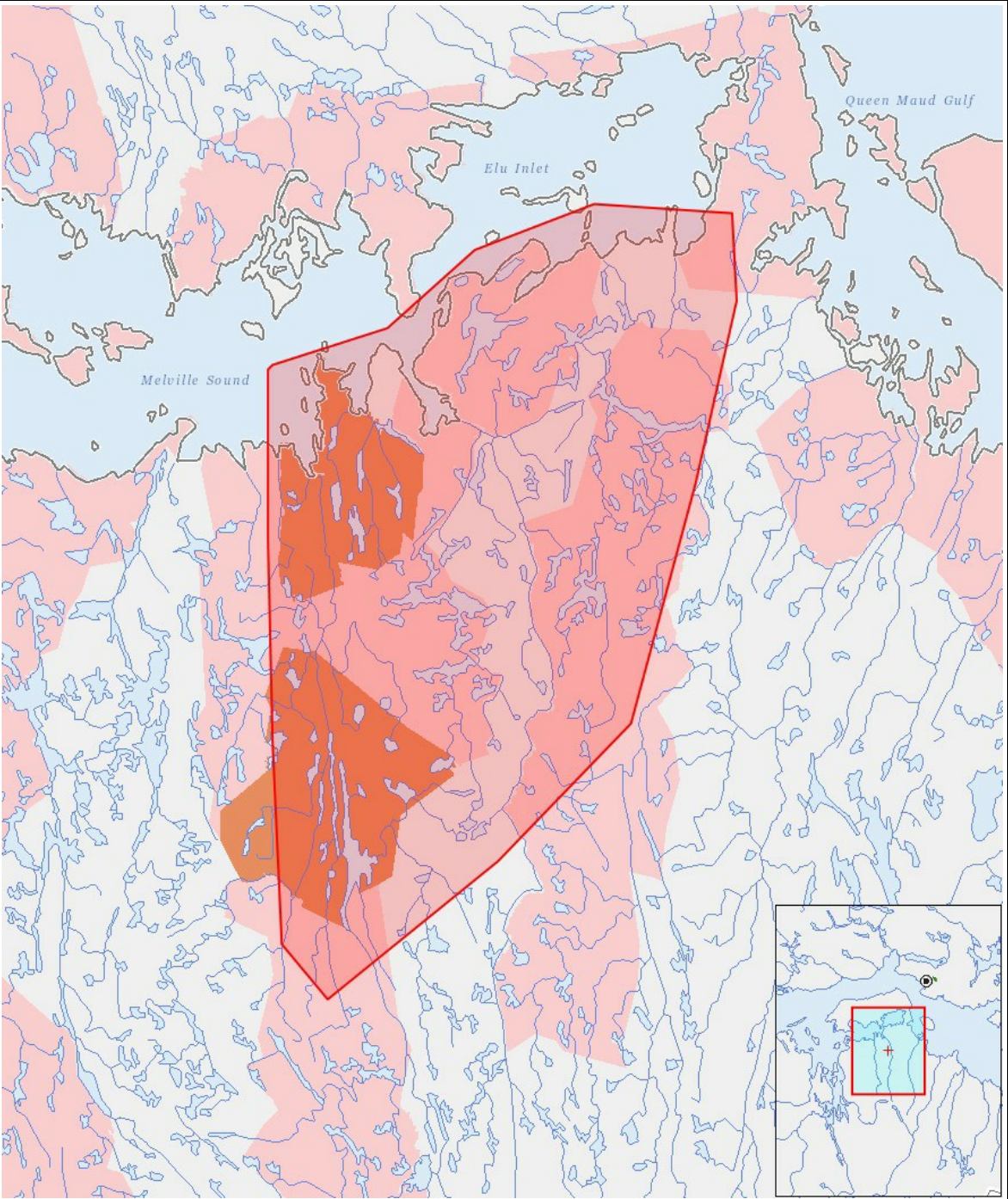
Impacts

Ilitariyauniq Avatiliriniqmut Ayurhautingit

| | | PHYSICAL | Designated environmental areas | Ground stability | Permafrost | Hydrology / Limnology | Water quality | Climate conditions | Eskers and other unique or fragile landscapes | Surface and bedrock geology | Sediment and soil quality | Tidal processes and bathymetry | Air quality | Noise levels | BIOLOGICAL | Vegetation | Wildlife, including habitat and migration patterns | Birds, including habitat and migration patterns | Aquatic species, incl. habitat and migration/spawning | Wildlife protected areas | SOCIO-ECONOMIC | Archaeological and cultural historic sites | Employment | Community wellness | Community infrastructure | Human health |
|----------------|--|----------|--------------------------------|------------------|------------|-----------------------|---------------|--------------------|---|-----------------------------|---------------------------|--------------------------------|-------------|--------------|------------|------------|--|---|---|--------------------------|----------------|--|------------|--------------------|--------------------------|--------------|
| Havakvinga | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | - | | - | - | - | - | - |
| Aulapkaininnga | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | - | | - | - | - | - | - |
| Piiqtauniq | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | - | | - | - | - | - | - |

(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyauyuq)

Havaariyauyukhamut Nayugaa



List of Project Geometries

| | | |
|---|---------|----------------------|
| 1 | polygon | New project geometry |
|---|---------|----------------------|