



NIRB Uuktuutinga Ihivriughikhamut #125535

Baker Lake quarry #1

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Pits and Quarries

Uuktuutinga Ublua: 6/2/2020 2:57:58 PM

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

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

Havauhikhaq Ikayuqtinga: Randy Mercer
Government of Nunavut
P.O. Box 490
Rankin Inlet Nunavut X0C 0G0
Canada
Hivayautit Nampanga:: 867-645-8115, Kayumiktukkut Nampanga:: 867-645-8143

Personnel

Personnel on site: 2

Days on site: 1800

Total Person days: 3600

Operations Phase: from 2020-03-29 to 2040-09-22

Hulilukaarutit

| Inigiya | Hulilukaarut Qanurittuq | Nunangga Qanurittaakhaanik | Initurlinga qanuritpa | Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannuqtut akhuurninnga | Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaliyainnit nuna |
|-----------------|-------------------------|----------------------------|--|--|---|
| quarry boundary | Quarry/Borrow pit | Commissioners | The current use of this site is for quarrying purposes. It is estimated that this site was used as a quarry since at least the 1980's. Prior to that date, this site has no use. | This site has no archaeological or paleontological value. | This quarry is 3.6 kilometres west from the community of Baker Lake. The Inuujaarvik Territorial Park within lot 444 plan 4664 is located 2.2 kilometres east of the quarry site. No known protected areas within or around the quarry. |

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

| Nunauyuq | Atia | Timiuyuq | Upluani Uqaqatigiyaungmata |
|--------------|--|---|----------------------------|
| Qamaniittuaq | Sheena Iksiraq, Planning and Lands Administrator | The Municipal corporation of the Hamlet of Baker Lake | 2020-06-02 |
| Kangirliniq | Randy Mercer, Manager, Lands Administration | Government of Nunavut- Dept. of CGS | 2020-06-02 |

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Kivalliq

Angiuttauvaktunik

| Munariniqmut Ayuittiaqtuq | Angirutinga Qanurittuq | Tadja Qanurittaakhaanik | Ublua Tuniyauyuq/Uuktuqtuq | Umikvikhaa Ublua |
|--|--|-------------------------|----------------------------|------------------|
| Government of Nunavut, Community Government & Services | The quarry boundary is located on Untitled Municipal Land, which is administered by CGS. CGS is the applicant and we approve of this NIRB application. | Active | | |
| Hamlets and Municipalities | Senior administrative officer with the Hamlet of Whale Cove gave consent to move forward with this application. | Active | | |

Project transportation types

| Transportation Type | Qanuq Atuqtauniarmangaa | Length of Use |
|---------------------|--|---------------|
| Land | There is an existing road that was and is still being used to access the site. CAT loaders, excavators and dump trucks will use this road. | |

Project accomodation types

Nunauyuq

Ihuaqutivaluin Atuqtauyukhan

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

| Hanalrutit Qanurittuq | Qaffiuyut | Aktikkulaanga – Qanurittullu | Qanuq Atuqtauniarmangaa |
|-----------------------|-----------|------------------------------|--------------------------|
| Loader | 1 | 5.7m x 2.7m x 1.5m | excavate quarry material |
| dump truck | 1 | 8m x 2.5m x 3.4m | haul quarry material |
| Track Excavator | 1 | 10m(L) x 3.2m (H) x 3.2m (W) | excavate quarry material |

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

| Qanurittuq urhuqyuaq hunavaluit aturninnga: | Urhuqyuaq Qanurittuq | Qaffiuyut qattaryut | Qattaryuk Aktikkulaanga | Atauttimut Qaffiuyut | Ilanga | Qanuq Atuqtauniarmangaa |
|---|----------------------|---------------------|-------------------------|----------------------|--------|-------------------------|
| Information is not available | | | | | | |

Imaqmik Aturninnga

| Ubluq qanuraaluk (m3) | Aturumayain imavaluin utiqittagaani qanuq | Atulirumayain imavaluin utiqittagani humi |
|-----------------------|---|---|
| 0 | | |

Iqqakuq

Ikkakunik Munakgiyauyunik

| Havauhikhaq Hulilukaarut | Qanurittuq Iqqakut | Ihumagiyauyuq Qanuraaluktut Atuqtait | Qanuq Iqqakuurniarmangaa | Halummaqtirarnirutikhan piyutin |
|------------------------------|-----------------------|--|-----------------------------|------------------------------------|
| Information is not available | | | | |

Avatiliriniqmut Ayurhauingit:

The natural vegetation such as moss and other arctic plants on the surface will be disturbed due to the extraction process of the aggregate. After the quarry is depleted of usable aggregate, the edges of the quarry will be smoothed out to prevent steep inclines. The Vegetation will grow back over time.

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

•This quarry site will be used to extract quarry material such as gravel, sand, and rock. A CAT track excavator will be used to dig and loosen the soil for extraction. A CAT loader will be used to stockpile, and a CAT dump truck will be used to haul the aggregate to and from the quarry. •Extraction of aggregate is estimated to go down 3-4 metres. •The closest waterbody is located 2.1 kilometres east of the quarry. •There will be no blasting or washing in this activity but there will be stockpiling of aggregate.

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

•The site is already being used for quarrying purposes. It was estimated this quarrying started in the early 1980's. Prior to quarrying there was no land use. •There is an existing road that branches off the main road between the community of Baker Lake and the terminal building that is and will be used to access this quarry site. •There is no evidence of ice lensing, TheroKarsts, ground or rock instability and seismicity. •There are no heritage sites, sport and commercial fishing areas, migration routes, protected wildlife areas or sites of cultural or historical significance, or areas of natural beauty within or around the quarry boundary. •Surface and bedrock geology, permafrost, and, sediment and soil quality are not known. •There are no waterbodies in the immediate vicinity of the quarry boundary.

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

•Since the current use of the site is used for quarrying purposes, the area has no vegetation due to the excavation process and has several stockpiles of aggregate. •300 metres west of the quarry site located on Lot 1001, Quad 66A/08 plan 2068 is a federal reserve under the name of Transport Canada for communication equipment for the airport. •There are no wildlife or bird migration routes nor is there any species of concern in this area.

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

•The site is located 2.6 kilometres west of the community of Baker Lake and 2.2 kilometres west of the Inuujaarvik Territorial Park located within lot 444 plan 4664. •There are no archaeological or culturally significant sites within or around the quarry. •There is no subsistence harvesting, tourism, trapping or guiding operations in the quarry. •As mentioned previously, there is an existing road that connects this quarry to the community. This road will be used to haul aggregate from the quarry, •Since the quarry site is located 2.6 kilometres from the community of Baker Lake, the effect of the extraction process on the well-being of the residence will be minimal.

Miscellaneous Project Information

•There is no abandonment and decommissioning plan, emergency response plan, comprehensive spill/prevention plan, or monitoring and management plans. •The site is not located within the Caribou protection areas or schedule 1 Species at Risk known locations.

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikkliyuumiutinahuarutit

NIL

Tamatkiumayunik Ihuikgutivaktunik

- The quarry site will limit future expansion of community subdivisions into this area, but this is a minimal effect in the short term because the community of Baker Lake is expanding North and this site is located west of the community.

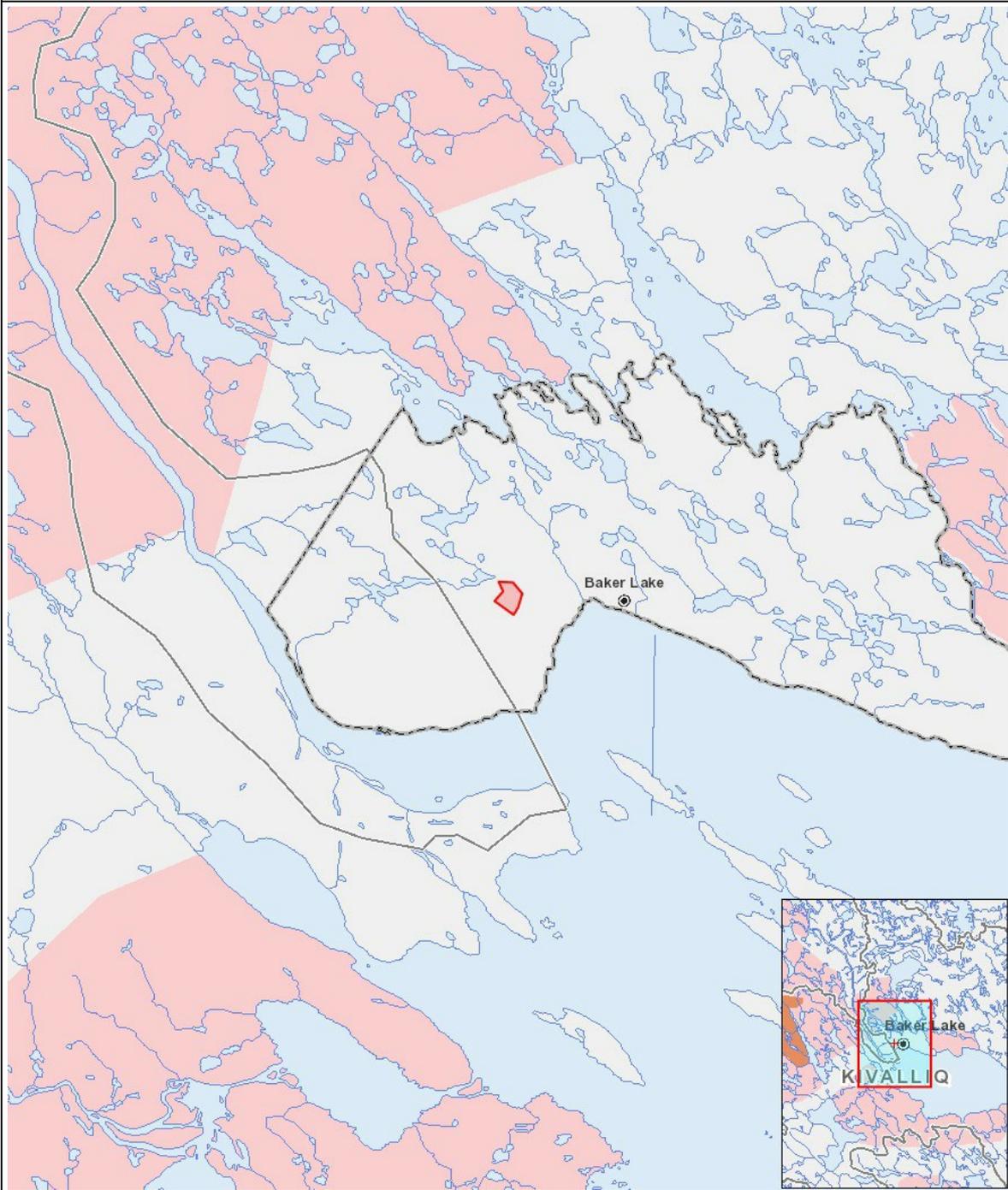
Impacts

Ilitariyauniq Avatiliriniqmut Ayurhauingit

| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quarry/Borrow pit | - | U | U | - | - | - | - | - | U | U | - | - | N | - | N | - | - | - | - | - | - | P | P | P | - |
| Piiqtauniq | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

Havaariyauyukhamut Nayugaa



List of Project Geometries

| | | |
|---|---------|-----------------|
| 1 | polygon | quarry boundary |
|---|---------|-----------------|