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# NIRB BOARD

UNAVUT IMPACT REVIEW BOARD

## NUNAVUMI AVATILIKIYIN KATIMAYIN

### NIRB Application for Screening #125150 Jericho Site Stabilization Project- Amendment

<b>Application Type:</b>	Amendment
<b>Project Type:</b>	Remediation
<b>Application Date:</b>	6/5/2017 9:48:40 AM
<b>Period of operation:</b>	from 2017-07-01 to 2019-01-01
<b>Proposed Authorization:</b>	from 2017-07-01 to 2019-01-01
<b>Project Proponent:</b>	Michael Westlake INAC 10th floor, 25 Eddy Street Gatineau QC K1A 0H4 Canada Phone Number:: 819-639-7344, Fax Number::

### DETAILS

#### Non-technical project proposal description

English: The following are two proposed modifications for the Jericho Site Stabilization Project: 1) INAC on behalf of DFO proposes to remove the jetty which is in Carat Lake. The objective of this is to create approximately 1,207 m<sup>2</sup> fish habitat of Carat Lake through the development of an underwater rock shoal by excavating the existing causeway to at least 2 meter below normal summer water levels. All infrastructure associated with the water intake jetty will first be removed before excavations will commence. The reclamation of the causeway will be based on Tahera Diamond Corporation's design plan found in their Closure and Reclamation Plan Update Report (April 2007) which is attached for reference. In the report, the causeway is suggested to be "cut to 2m below the normal summer water level from the northern extent back to a water depth of 3.5m. From 3.5m water depth to 1m the causeway will taper up. The reclaimed causeway will intersect surface near the shoreline." This work will be conducted between July 1 to Aug 31 so as to not have any adverse impacts on the aquatic ecosystem. To isolate the jetty from the lake during the construction, silt booms and/or silt curtains will be used as sediment and erosion control measures. Additional sediment and erosion control measures that will be considered during in water workings are available on the DFO website at <http://www.dfompo.gc.ca/pnwppe/measures-mesures/measures-mesures-eng.html> . A qualified biologist or environmental inspector will be on site during all in-water restoration/construction works . 2) As a contingency measure to aid in the removal of the frozen core West Dam, explosives may be used. The details of this can be found in the attached document prepared by Outcome Consultants and Rowes Construction.

French: This project does not fall within the boundaries of a french speaking region. Should this be an issue INAC will get french translation of our project summary.

Inuktitut: Summary sent to translation

Inuinnaqtun: see attached

#### Personnel

Personnel on site: 500

Days on site: 180

Total Person days: 90000

Period of operation: from 2017-07-01 to 2017-09-30

Proposed term of operation: from 2017-07-01 to 2019-01-01

## Activities

### Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Jericho	Site Cleanup/Remediation	Crown	The West Dam was constructed for mining operations. As part of the remediation/site stabilization, the West Dam will be removed as described in the original application: "16UN052 Jericho Site Stabilization Project". This amendment includes the use of explosives as a back-up plan for the removal of the West Dam.	Site archaeological value same as described in original application: "16UN052 Jericho Site Stabilization Project"	260km southeast of Kugluktuk, NU
Carat Lake	Site Cleanup/Remediation	Crown	The jetty and pump house were installed at Carat Lake to draw freshwater for camp and mining operations. This amendment includes the removal of the pump house and jetty resulting in the creation of new fish habitat.	n/a	260km southeast of Kugluktuk

### Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Information is not available			

### Authorizations

#### Indicate the areas in which the project is located

Kitikmeot

### Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Aboriginal Affairs and Northern Development Canada	Land-Use Permit	Active		
Kitikmeot Inuit Association	Access to IOL	Applied, Decision Pending		
Nunavut Water Board	Water Licence	Active		

**Material Use****Equipment to be used (including drills, pumps, aircraft, vehicles, etc)**

Equipment Type	Quantity	Size - Dimensions	Proposed Use
explosives	40,000kg maximum	n/a	removal of frozen core West Dam
all other equipment has been previously approved under "16UN052 Jericho Site Stabilization Project"	n/a	n/a	remediation/site clean-up

**Detail Fuel and Hazardous Material Use**

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Information is not available						

**Water Consumption**

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0		

**Waste****Waste Management**

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Information is not available				

**Environmental Impacts:**

Please see original application: "16UN052 Jericho Site Stabilization Project"

## **Details Part 2**

### **Project General Information**

#### **DFO Operational Statement (OS) Conformity**

##### **Transportation**

##### **Camp Site**

##### **Equipment**

##### **Water**

##### **Waste Water (Grey water, Sewage, Other)**

##### **Fuel**

##### **Chemicals and Hazardous Materials**

##### **Workforce and Human Resources/Socio-Economic Impacts**

##### **Public Involvement/Traditional Knowledge**

#### **SECTION F: Site Cleanup/Remediation: Project Information**

The following are two proposed modifications for the Jericho Site Stabilization Project "16UN052": 1) INAC on behalf of DFO proposes to remove the jetty which is in Carat Lake. The objective of this is to create approximately 1,207 m<sup>2</sup> fish habitat of Carat Lake through the development of an underwater rock shoal by excavating the existing causeway to at least 2 meter below normal summer water levels. All infrastructure associated with the water intake jetty will first be removed before excavations will commence. The reclamation of the causeway will be based on Tahera Diamond Corporation's design plan found in their Closure and Reclamation Plan Update Report (April 2007) which is attached for reference. In the report, the causeway is suggested to be "cut to 2m below the normal summer water level from the northern extent back to a water depth of 3.5m. From 3.5m water depth to 1m the causeway will taper up. The reclaimed causeway will intersect surface near the shoreline." This work will be conducted between July 1 to Aug 31 so as to not have any adverse impacts on the aquatic ecosystem. To isolate the jetty from the lake during the construction, silt booms and/or silt curtains will be used as sediment and erosion control measures. Additional sediment and erosion control measures that will be considered during in water workings are available on the DFO website at <http://www.dfompo.gc.ca/pnwppe/measures-mesures/measures-mesures-eng.html> . A qualified biologist or environmental inspector will be on site during all in-water restoration/construction works . 2) As a contingency measure to aid in the removal of the frozen core West Dam, explosives may be used. The details of this can be found in the attached document prepared by Outcome Consultants and Rowes Construction.

##### **Description of Existing Environment: Physical Environment**

##### **Description of Existing Environment: Biological Environment**

##### **Description of Existing Environment: Socio-economic Environment**

##### **Identification of Impacts and Proposed Mitigation Measures**

##### **Cumulative Effects**

**Impacts**

**Identification of Environmental Impacts**

	<b>PHYSICAL</b>	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	<b>BIOLOGICAL</b>	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	<b>SOCIO-ECONOMIC</b>	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
<b>Construction</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Operation</b>																									
Site Cleanup/Remediation		-	-	-	-	-	-	-	-	M	-	M	-		M	M	M	P	-		P	-	-	-	-
<b>Decommissioning</b>																									
Site Cleanup/Remediation		-	M	-	-	-	-	-	-	M	-	M	-		M	M	M	P	-		P	-	-	-	-

(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

