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NIRB BOARD

UNAVUT IMPACT REVIEW BOARD

NUNAVUMI AVATILIKIYIN KATIMAYIN

NIRB Uuktuutinga Ihivriuhikhamut #125149

Impacts of air pollution on terrestrial and aquatic ecosystems on Baffin Island

Uuktuutinga Qanurittuq:	Amendment
Havaap Qanurittunia:	Ihiviukhinnikmun Naunnaiyainikmun
Uuktuutinga Ublua:	6/3/2017 11:46:36 AM
Period of operation:	from 2017-08-20 to 2017-09-05
Piumayaat Angirutinga:	from 2017-08-18 to 2017-09-05
Havauhikhaq Ikayuqtinga:	Julian Aheme Trent University TSE, 1600 West Bank Drive Peterborough Ontario K9L 0G2 Canada Hivayautit Nampanga:: 705748101x7887, Kayumiktukkut Nampanga::

QANURITTUT

Tukihiaanaqtunik havaariyauyumayumik uqauhiyun

- Qablunaatitut:** The proposed study will collect surface water from lakes north of Kimmirut, and around Pond Inlet and Iqaluit. Approximately 50 lakes will be randomly selected for sampling by helicopter north of Kimmirut and around Pond Inlet. In addition, 10 lakes have been selected for sampling around Iqaluit, with access by foot. All study sites will be located outside of Inuit Owed Land and Territorial Parks. All lake water samples will be analysed for major cations and anions, nutrients, trace metals, and mercury to assess the potential impacts of air pollution.
- Uiviiitut:** L'étude proposée recueillera des eaux de surface dans les lacs au nord de Kimmirut et autour de Pond Inlet et Iqaluit. Environ 50 lacs seront choisis au hasard pour l'échantillonnage par hélicoptère au nord de Kimmirut et autour de Pond Inlet. En outre, 10 lacs ont été sélectionnés pour l'échantillonnage autour d'Iqaluit, avec accès à pied. Tous les sites d'étude seront situés à l'extérieur des terres inuites et des parcs territoriaux inuits. Tous les échantillons d'eau du lac seront analysés pour les principaux cations et anions, nutriments, métaux traces et mercure afin d'évaluer les impacts potentiels de la pollution atmosphérique.
- Inuktitut:** ᑕᑲᑦ wᐃᑕᑕ be ᓴᓴᑕᑕ ed ᑕᑎ ᐃᓴᑦᓴ ᑕᑲ he ᑕᑎᑕᑎᐱᑕ ᐃᓴᑕᑕᑕ of ᐅᑦ ᑕᑎᑕᑎᑎᑕ. ᓴᑕᑕ ᐃᑕᑕched docᑕᑕᑕᑕ.

Personnel

- Personnel on site: 2
Days on site: 10
Total Person days: 20
Period of operation: from 2017-08-20 to 2017-08-30
Proposed term of operation: from 2017-08-18 to 2017-09-05

Hulilukaarutit

Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunanga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnit Uyarannuqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaiyainnit nuna
025N16	Sampling sites	Crown	There is no significant site history for any of the study sites. This is a regional survey of lakes, while some may have been sampled previously, they have been randomly sampled (stratified by lake size) in the current study. There are 10 study lakes in NTS grids 025N15 and 025N16.	No known archaeological/palaeontological value for sites in the current study (i.e., sites have not been selected based on their archaeological/palaeontological history).	Project personnel will be based at NRI, Iqaluit. Iqaluit Study Domain: NTS 025N15, 025N16. Nearest community is Iqaluit <25 km. All study sites in the Iqaluit study domain will be located outside of Inuit Owned Land and Territorial Parks. Study sites (10 lakes have been selected) will be sampled (collection of water sample) with site accessed by foot or ATV.
025M08	Sampling sites	Crown	There is no significant site history for any of the study sites. This is a regional survey of lakes, while some may have been sampled previously, they have been randomly sampled (stratified by lake size) in the current study.	No known archaeological/palaeontological value for sites in the current study (i.e., sites have not been selected based on their archaeological/palaeontological history).	Project personnel will be based at NRI, Iqaluit. Kimmirut Study Domain: NTS 025M06 and 025M08. Nearest community is Kimmirut <100 km. All study sites in the Kimmirut study domain will be located outside of Inuit Owned Land and Territorial Parks. Study sites (50 lakes have been selected) will be sampled (collection of water sample) with site accessed by helicopter. Flights are scheduled for August 29th and 30th, 2017. However, only one day may be necessary to sample lakes.
038B10	Sampling sites	Crown	There is no significant site history for any of the study sites. This is a regional survey of lakes, while some may have been sampled previously, they have been randomly sampled (stratified by lake size) in the current study.	No known archaeological/palaeontological value for sites in the current study (i.e., sites have not been selected based on their archaeological/palaeontological history).	Project personnel will be based at hotel accommodation in Pond Inlet. Pond Inlet Study Domain: NTS 038B10 and 038B11. Nearest community is Pond Inlet <100 km. All study sites in the Pond Inlet study domain will be located outside of Inuit Owned Land and Territorial Parks. Study sites (50 lakes have been selected) will be sampled (collection of water sample) with site accessed by helicopter (and where possible by foot). Flights are scheduled for August 22th and 23th, 2017. However, only

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluni Uqaqatigiyaungmata
Iqaluit	Jamal Shirley	Nunavut Research Institute and Nunavut Arctic College	2016-05-17
Mittimatalik	Shelly Elverum	Northern Coordinator at Ikaarvik Project	2016-10-16

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq

North Baffin
South Baffin

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Nunavut Kavamanga, Avatiliriyikkut	Wildlife Research Permit	Active	2017-05-26	2017-09-01
Alaanut	Nunavut Planning Commission	Active	2017-05-12	2017-09-01

Nunavut Kavamanga, Nunavunmi Ihivriunqimut Timiqutigiyanga	Reviewed by NPC, pending review by NIRB	Applied, Decision Pending		
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	PHYSICAL	Designated environment	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including birds	Birds, including nesting sites	Aquatic species, including fish	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural resources	Employment	Community wellness	Community infrastructure	Human health
Havakvinga	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aulapkaininnga	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Piiqtauniq	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Project Map

