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Cambridge Bay Air Quality

ርፋይና ንግድ ትምህር: New

ለማሳዣ መመሪያ: Scientific Research
የመመሪያ: 7/4/2024 11:33:26 AM

Period of operation: from 2024-08-30 to 2027-08-30

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ፖ.ቃል አገልግሎት

የመፈርሱ ለመፈጸም መፈጸም

የመፈርሱ ለመፈጸም መፈጸም: Overview: Polar Knowledge Canada and Environment and Climate Change Canada are proposing to install monitors to measure particulate matter (PM 2.5, PM 10 and black carbon) in the community of Cambridge Bay, Nunavut. Particulate matter can come from many sources in the community including road/construction dust, burning of diesel, and burning of the dump. Particulate matter, including black carbon, is of concern because it can contribute to negative health outcomes as well as climate change. Purpose: The purpose of this project will be to understand the levels and sources of particulate matter and black carbon in the community of Cambridge Bay, Nunavut. This information will help to assess whether these levels could be associated with any public health risks and develop options for mitigating emissions. Activities: The project will involve deploying small particulate matter sensors and black carbon sensors in strategic areas of the community. Qulliq Energy Corporation will help to install the sensors on top of the streetlights and remove them at the end of the project. A sensor will also be installed in the high school to monitor differences in indoor air quality. Timeline: This pilot project will span 3 years (2024 – 2027). It includes a minimum 2-year data collection period (2024-2026) and 1-year to analyze data and produce the project deliverables. Results: At the end of the project, the team will produce a report on findings, including options for mitigating emissions and exposure. These findings will be presented to community members in a results workshop where discussions can be held on results, next steps, and potential mitigation measures. The data generated from the project will also be shared with the Hamlet of Cambridge Bay to help determine potential emissions mitigation measures. Additionally, the team will be working with the high school to allow students to see the differences in particulate matter concentrations within their school and in different areas in their community. Should this pilot project be successful in Cambridge Bay the project could be duplicated/adapted for other arctic communities that are interested. Impacts: Due to the location of the project within a pre-disturbed area (within the community), the noiseless and small size of the instruments (approximately the size of a 1 litre Nalgene bottle), and the inaccessibility of the instruments on top of streetlights, there is unlikely to be any impacts to the environment, wildlife or people.

የመፈርሱ: N/A

የመፈጸም: N/A

Inuinnaqtun: Ukautait: Polar Knowledge Canadami ovalo Avatiligiit Hilat Aalangayulikiyit Kanatami uktumayut ililutik kungiagutikhainik halumaituligutainik (PM 2.5, PM 10 ovalo Puyuut) Ikaluktutiame, Nunavut. Halumailigutit pilaaktut amigaitunit nunalaani, ilauyut apkotini hiugaliat, ikualaaktut ukhukyuat ovalo ikualaaktut kuvit. Halumaituligutit ilauyut puyuut ihumaalugiliktaa ilaa, ilaulaamata anialilaagutainut ovalo hilat aalangugutait. Huliniaktut: Hulinahuaktut hamani hanayakhat kangikhinahualugit kanugitaakhaat ovalo naktlu halumailigutit ovalo puyuut Ikaluktutiame, Nunavut. Hamna tuhagutikhait ikayuniaktut ikayugiaganik hapkoan kanugitaakhaat ilauyunit Inunut aniaktitailigiyit ovalo hanalutik aalanut ihuakhilaagutainik puyuunit. Havaniaktait: Hanayakhat ilauniaktut ilitilik mikiyunik kimilguugutainik Ikaluktutiame. Qulliq Kuliliyiit Kuapurisitkut ikayuniaktut ilitigutainik kimilguugutait kaangani apkotini kuliit ovalo unguvaklugit inikata hanayakhat. Kimilguutit iliyauniaktut Ilhakvimi kungiagiaganik kanugitaakhaat iluani anikhaagautit. Ubluinik: Hamna hivulik hanayakhat uktuniaktut pingahunik ukiunik (2024mit – 2027mut). Ilauniaktut mikinikhaanut malguunik ukiunik katitigutait ukiunik (2024mit-2026mut) ovalo atauhimik ukiumik kimilguugutainit katitigutait ovalo hanalutik tunilaaktainik. Iniktigutait: Inikata hanayakhat, havakatigiiktut hananiaktut tuhaktitakhainik nanihimayainik, ilauyut aalangugutainut ihuakhilaaktaat puyuut ovalo aktugutait. Hapkoan nanihimayait tuniyauniaktut nunakatigiiktunut ayoikhaitilutik katimayut nani ukakatiginiaktait iniktigutainik, aipaantulu piniaktait ovalo ihuakhautikhait naunaiyautainik. Katitikhimayut pihimayut hanayakhamit tuniyauniaktut, ilaukatigiyaanganik Hamletkunut Ikaluktutiame ikayugiaganik kanuk pilaaktait puyuut ihuakhilaagutainik naunaiyautait. Ovaltauuk, havakatigiiktut havaniaktut Ilhakvimi pipkaiyaanganik ilihaktut takuyaanganik kanugitaakhaat halumailigutit katitilikpaktut ilhakvimi ovalo aalatkiinit ilihimayait Ikaluktutiame. Pigumik hamna hanayakhat nakuugumik Ikaluktutiame, hanayakhat aatjikutiliuniaktaa/atuliklugit aalani Ukiuktaktumi nunalaat uktugumayunut. Ikpinagutait: Naniiniagutait hanayakhat iluanik aktuktauhimaitumi (iluani Ikaluktutiak), nipikangitut ovalo mikiyut hanalgit (haniani Ikaluktutiame), nipikangitut ovalo mikiyut (angitjutait 1litre hikulautait) ovalo aktuktaulaitjutainik hanalgitikhait kaangani kuliit, ikpinaktilaitut avatiligiinut, hugaanut ovaluniit Inunut.

Personnel

Personnel on site: 2

Days on site: 2

Total Person days: 4

Operations Phase: from 2024-08-30 to 2027-08-30

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Air quality monitors within the boundary of Cambridge Bay	Scientific/International Polar Year Research	Commissioners	Within municipal limits of Cambridge Bay	N/A - will be installed in pre-disturbed area on buildings and light posts	Within Cambridge Bay

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አንገላ ገብረንት	Angela Gerbrandt	Cambridge Bay Hamlet	2024-06-06

ՀԱՅՈՒԹԻՒՆ ԱԼՅՈՒՆՈՒԹԻՒՆ ՇՐՋՎԵՐ

ይታደሱ ሌጋፍ አልማዝ ተስፋርድ በበኩል ተደርግል

ՀԱՅՈՒՅԾ ԱԼԱՎԵՐԴԻ ՏՐՄՆՅՈՒՆ

ՆԵՐՄԱՆԴՐ՝ ԳԱՅՆԿԱՐԼԸ ԺԱՆՄԱԾ ԼԵՆԻ ՔԱՇՏԸ ԱՌԱՋՆԵՐԸ ԵՎ ԱՐԺԸ ԱՌԱՋՈՒՇՈՎՈՒՄ ՀԱՅՐԱՄ ԵՎ ԵՎՐԵԱԺԸ	ԵԱԾԸՆՈՒԹՅ ՀԱՅՐԱՄ ԵՎ ԵՎՐԵԱԺԸ ԱՌԱՋՆԵՐԸ ԵՎ ԱՐԺԸ	ԼԵՆԻ ՔԱՇՏԸ ԱՌԱՋՆԵՐԸ ԵՎ ԱՐԺԸ ԱՌԱՋՈՒՇՈՎՈՒՄ ՀԱՅՐԱՄ ԵՎ ԵՎՐԵԱԺԸ	ԴՐԱ ՀԱՄԱՐ/ ՀԱՅՐԱՄ ԵՎ ԵՎՐԵԱԺԸ	ԲԱՐԵՎԱՆ
ՄԱԺԱՐ ԳԱՅՆԿԱՐԼԸ	NRI Research Permit - Physical / Natural Sciences Research	Not Yet Applied		

Project transportation types

Transportation Type	Description	Length of Use
Land	Travel by truck in community to install monitors	

Project accommodation types

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በበኩረን የጊዜ ስራ ተስፋል ይችላል

Information is not available

Digitized by srujanika@gmail.com

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Information is not available				

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Potential environmental impacts are very low as the monitors are small (approximately the size of a nalgene water bottle), do not emit sound, and will be placed out of reach on light posts and buildings. The monitors are also being placed within the community in pre-disturbed areas. Potential for positive impacts on air quality, community wellness and human health as the results workshop from this project will discuss with community members, KIA and the Hamlet about current air quality and mitigation measures to improve air quality in the community.

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

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Pre-disturbed area

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This project is in response to community concerns with air pollution from dust and burning of the dump. The air quality monitors will help measure impacts from these activities and will aid in determining mitigation measures.

Miscellaneous Project Information

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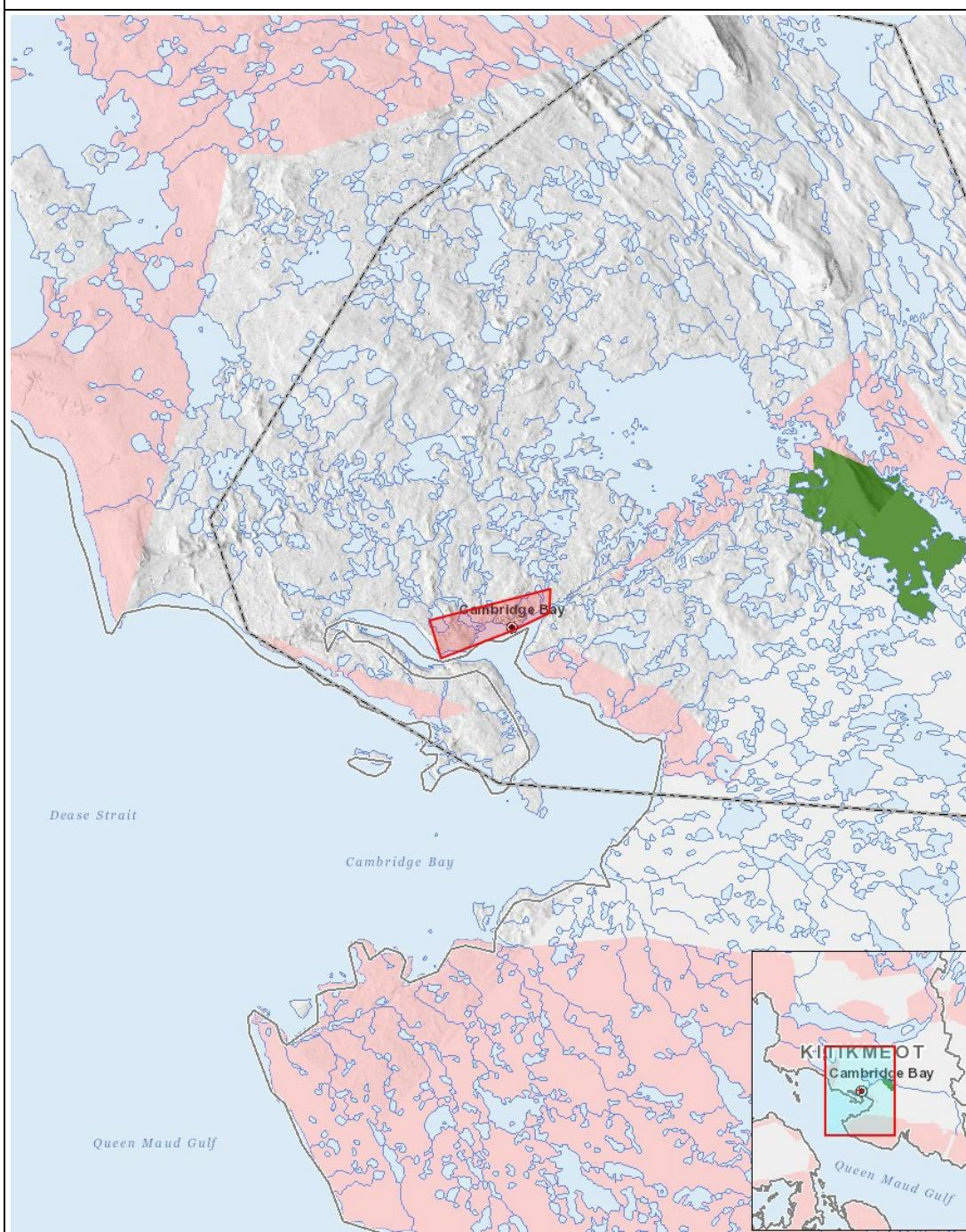
Cumulative Effects

Impacts

Polar Regions																				
Physical			Designated environmental areas			Ground stability			Permafrost			Hydrology / Limnology			Water quality			Climate conditions		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Biosphere			Surface and bedrock geology			Sediment and soil quality			Tidal processes and bathymetry			Air quality			Noise levels			BIOLOGICAL		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Scientific/International Polar Year Research			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		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	P
Human Health			Archaeological and cultural historic sites			Employment			Community wellness			Community infrastructure			Human health					
(P = Polar Regions, N = Northern Regions, M = Middle Latitudes, U = Urban)																				

(P = $\Delta\text{Polar Regions}$, N = $\Delta\text{Northern Regions}$, M = $\Delta\text{Middle Latitudes}$, U = ΔUrban)

پاٹیلے نہیں اور دنیا کے



List of Project Geometries

- | | | |
|---|---------|---|
| 1 | polygon | Air quality monitors within the boundary of Cambridge Bay |
|---|---------|---|