

## nirb info

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**From:** Cian Sherwin <cian@realice.eco>  
**Sent:** July 31, 2023 9:37 AM  
**To:** Keith Morrison  
**Cc:** nirb info  
**Subject:** [EXTERNAL] Re: Proposed research project at Cambridge Bay

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Hi Keith,

Thank you for your email, I'm happy to answer your queries and it would be great if you could help us clarify some points below;

1. The pumps are removed after the test period (24th of Nov)
2. We can include a further description of the submersible pump that will be used for the test or are you also asking us to include further descriptions for all of the equipment? i.e. the portable Hydrogen Fuel Cell Power Station
3. This is because we would like to position 2 monitoring devices supplied by [SMART ICE](#) (Smart Buoy) in the sea ice to remotely measure our tests, these would be maintained ( Smart Ice [devices](#)) and subsequently removed by the staff at CHARS. The monitoring equipment will be used to record the sea ice in the test areas for the remainder of the Winter months. This would also prevent the need for a 2nd trip to Cambridge Bay from our team at the end of the winter season.
4. Our intention is to work with CHARS and the relevant authorities to select a location 'roughly' within the area indicated that would suit the research activities and minimise impact on the local community/wildlife. We are assuming our contacts at CHARS will pick up our conversation when their main research activities finish towards the end of the summer months (End of August). We would need an area of sea ice (~5 acres) within range of the CHARS facility that is feasible to transport our team to and remotely monitor our equipment (within a <10km radius of the station). As an additional point, we do not need to stop recreational/commercial activities taking place on the sea ice where our device will be tested as we are more focused on the rate/success of accretion from below the ice although an area less travelled upon would be ideal. Our early conversations with CHARS appeared to indicate that it would be possible to find a suitable area of sea ice that we could conduct testing although we were not given any specific coordinates until further conversations had taken place hence the crudely mapped area highlighted in the application.

I hope that helps answer your queries but please don't hesitate to contact us again if there are further questions.

Our contacts in relation to CHARS so far have been;

- [Robert.Cooke@polar-polaire.gc.ca](mailto:Robert.Cooke@polar-polaire.gc.ca)
- [rachel.mandel@polar-polaire.gc.ca](mailto:rachel.mandel@polar-polaire.gc.ca)

Two questions;

1. Is NIRB able to assist with site selection or can you help us get in contact with a person that could?
2. Can you also tell me if we will need to update our application with this information or are you able to include my comments?

Kind regards,

**Cían Sherwin MSc**

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On Thu, Jul 27, 2023 at 9:08 PM Keith Morrison <[kmorrison@nirb.ca](mailto:kmorrison@nirb.ca)> wrote:

Hello. Before we can begin screening, we will need some additional data and clarifications on the proposed project.

1. The information supplied with your application is incomplete as it is unclear if the pumps are removed or left in place.
2. More information on the pump would be considered useful for public comment.
3. The application considers an extended study period but the time given in the application would appear to only consider the period of pumping and not the subsequent monitoring.
4. The map provided for the activity area does not match that indicated in the description. The entire area highlighted in the supplied map is an area used for travel and community activities, and therefore would be unsuitable to the project requirements. Given that the sea ice around Cambridge Bay is heavily travelled in all directions during the winter, it would be difficult for community members to provide comment on the project without having a better sense of where it may be.

We look forward for information on when this information may be available and the screening can proceed.

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Keith Morrison

Manager - Impact Assessment

Nunavut Impact Review Board

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