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NRI File No: 01 001 24N-M (2024)

June 16, 2025

Re: Research License Renewal – Iqaluit and Pond Inlet Field Program

Dear Mosha,

1 Project Overview

1.1 Introduction and Project Location

Worley Canada Services Ltd. (formerly Advisian), operating as Worley Consulting, and its sub-consultant, Dynamic Ocean Consulting Ltd. (Dynamic Ocean), have been supporting the Government of Nunavut – Transportation and Infrastructure Nunavut (GN-TIN) department in the permitting and compliance for the Iqaluit Deep Sea Port (DSP) and Small Craft Harbour (SCH) and Pond Inlet SCH marine infrastructure projects. Project location details for Pond Inlet and Iqaluit are provided in Table 1-1 and depicted in Figure 1-1.

Table 1-1: Field Program Locations

Location	Location Description	Location	Latitude	Longitude
Iqaluit	Iqaluit is located on southern Baffin Island, Frobisher Bay, Koojesse Inlet.	DSP	63° 43.337'N	68° 31.299'W
		SCH	63° 44.458'N	68° 30.708'W
Pond Inlet	Pond Inlet is located on the northern shore of Baffin Island in Eclipse Sound.	SCH	72° 42.125'N	77° 57.766'W

Construction of the projects were completed in 2021 (Pond Inlet) and 2022 (Iqaluit) and were permitted through the Nunavut Planning Commission (NPC) and the Nunavut Impact Review Board (NIRB) (see Table 1-2).

Following submission of substantial completion by the contractor, deficiencies were documented for each Project:

- Pond Inlet: deficiencies in dredge depths (over dredge and under dredge) that are not in accordance with the technical drawings and specifications, and which will impact the functionality of the Project.
- Iqaluit: over dredge in front of the DSP and a missing drill pipe from geotechnical drilling activities.

Due to the additional construction works required to correct deficiencies, additional field programs and permitting are required. Field programs will include:

- A sediment sampling field program within the dredge footprint (Pond Inlet).
- A Remotely Operated Vehicle (ROV) survey (Pond Inlet and Iqaluit).

The Field Program will be undertaken in the open-water season of 2025 or 2026.

Table 1-2: Construction Permits

Project	Nunavut Planning Commission	Nunavut Impact Review Board
Iqaluit	148429 (DSP)	17XN021 (DSP)
	148431 (SCH)	17XN022 (SCH)
Pond Inlet	148432	17XN030

This letter is an application for the renewal of the scientific research license issued by the Nunavut Research Institute (NRI) for the Field Program. The NRI scientific research license renewal application form is provided in Appendix A.

WGS 84 / Pseudo-Mercator
Units: meters
Dynamic (relies on a datum which is not plate-fixed)
Celestial body: Earth
Based on World Geodetic System 1984 ensemble (EPSG:6326), which has a limited accuracy of at best 2 meters.
Method: Mercator

Figure 1-1 Project Locations

Nunavut

Dynamic Ocean Consulting Ltd.

2 Project Description

2.1 Field Program

2.1.1 Sediment Collection

Sediment collection methodology is described below, where a combination of methodologies may be used:

- Sediment samples will be collected either on foot or from a boat depending on location (intertidal or subtidal).
- Intertidal samples will be collected with a sterilized stainless-steel spoon and bowl. Subtidal samples will be collected using either a ponar grab sampler, vibrecore or by Self-Contained Underwater Breathing Apparatus (SCUBA) divers.
    - The ponar grab sampler or vibrecore will be lowered over the side of the boat to the seabed to collect a sample.
    - SCUBA divers will descend with a stainless steel sediment core and manually collect the sample.
- Physical characteristics of the sediment will be documented (e.g., colour, texture) and samples will be photographed.
- Samples will be retained in coolers and shipped to an accredited laboratory for processing.
- Sediment quality analysis will be performed in the laboratory as below:
    - Total Organic Carbon (TOC).
    - Total metals (suite of 32).
    - Polycyclic Aromatic Hydrocarbons (PAHs).
    - Polychlorinated Biphenyls (PCBs).
    - Sediment grain size.

2.1.2 Subtidal Remotely Operated Vehicle (ROV) Survey

Subtidal ROV survey methodology is described below:

- A local boat operator will be sub-contracted.
- Perpendicular and parallel to shore subtidal transects will be conducted to visually assess habitat conditions using a ROV.
- Field personnel will document substrate and habitat characteristics as below:
    - Substrate type and composition.
    - Algae species identification and percent coverage.
    - Relative abundance of marine invertebrates.

2.2 Schedule

Field work will be undertaken over a period of three days (Pond Inlet) and one day (Iqaluit) in the open-water season of 2025 or 2026. If the field program occurs in 2026, a renewal of this application will be requested.

3 Summary and Closing

We trust that this correspondence provides the necessary details required for the NRI permit renewal. If you require any further information, please do not hesitate to contact Victoria Burdett-Coutts (victoria@dynamicocean.ca; 778-839-2372).

Victoria Burdett-Coutts
Dynamic Ocean Consulting Ltd.
Senior Regulatory Professional

Appendix A: NRI Renewal Application Form

Request to Renew a Scientific Research License for 2025

2024 Research License Number
01 001 24N-M

Project Title

Iqaluit and Pond Inlet Field Program

Primary License Holder Information

Name:	Justin McDonell
Affiliation:	Government of Nunavut - Transportation and Infrastructure Nunavut
Mailing Address:	PO Box 1000, Station 200, Iqaluit, Nunavut X0A0H0, Canada
Telephone:	867-975-5514
Email:	JMcDonell@gov.nu.ca

Proposed Fieldwork dates in 2025

Start Date (dd-mm-yr)	End Date (dd-mm-yr)
01-07-2025	30-09-2025

Team members to be included on 2025 Research License

Name	Affiliation	Role in Research
Victoria Burdett Coutts	Dynamic Ocean Consulting Ltd.	Applicant Representative
Cameron Knight	Dynamic Ocean Consulting Ltd.	Field Technician
Gabrielle Smith	Dynamic Ocean Consulting Ltd.	Field Technician
Katie Morrison	Worley Canada Services Ltd.	Project Coordinator

Brief Description (200 words or less) of Research to be undertaken in 2025:

Worley Canada Services Ltd. (formerly Advisian), operating as Worley Consulting, and its sub-consultant, Dynamic Ocean Consulting Ltd. (Dynamic Ocean), have been supporting the Government of Nunavut – Transportation and Infrastructure Nunavut (GN-TIN) department in the permitting and compliance for the Iqaluit Deep Sea Port (DSP) and Small Craft Harbour (SCH) and Pond Inlet SCH marine infrastructure projects. Construction of the projects were completed in 2021 (Pond Inlet) and 2022 (Iqaluit).
Following submission of substantial completion by the contractor, deficiencies were documented for each Project. Due to the additional construction works required to correct deficiencies, additional field programs and permitting are required. Therefore, a sediment sampling and subtidal ROV field program will be undertaken in the open water season of 2025 or 2026.

***This text will appear on the 2025 research license**

Change in Research Scope for 2025

Will you carry out new research activities in 2025, or conduct research in additional communities/field locations, that were not described in your original multi-year research license application to the NRI?

☐ Yes ☑ No

Description of Modifications/Changes in 2025

Proposed change(s). Select all that apply:

☐Study team	☐Consent process	☐Research site(s)
☐Study population	☐Research protocol	☐Other
☐Recruitment process	☐Data collection materials	

Describe the proposed change in research scope for 2025 and provide a rationale for the change:

*New research methods, the addition of new research field locations or inclusion of new study communities may require a new submission to the Nunavut Planning Commission. Additional community consultations may also be required.

Potential Risks for new research activities:

Could the proposed changes increase the level of risk to participants and/or potentially influence participants' willingness to continue in the study?

☐ Yes – Please Explain below ■ No

How will the proposed changes be communicated to study participants (select all that apply)?

☐Inform study participants through a letter, email, verbal communication, etc.

☐Revise consent/assent forms and:

☐Seek consent from remaining participants using the revised forms

☐Seek a new consent from already-enrolled participants using the revised forms

■No action is required Other – please describe:

I certify that all the information provided herein is accurate and complete, and that I will inform the Nunavut Research Institute immediately if any additional changes are made to the research protocol or if any errors are discovered in this amendment request.

Signature: 

Date: June 17, 2025

Privacy notice: The personal information provided in this form is handled in accordance with the *Privacy Act*. We only collect the information we need to process your renewal request. In addition to protecting your personal information, the *Privacy Act* gives you the right to request access to and correction of your personal information.

Please submit your completed renewal request to: mosha.cote@arcticcollege.ca