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▷ **Δ&NDC:** Description du projet : Le projet utilisera un chalutage de fond, des pièges et des caméras appâtées pour recueillir des données de base sur les habitats et les espèces benthiques (poissons et invertébrés) près de Qikiqtarjuaq. Tous les travaux seront effectués à partir d'une plate-forme rattachée à un navire. Les données recueillies permettront d'évaluer les conséquences actuelles et potentielles des changements climatiques sur la communauté benthique. Le chalut de fond est un engin efficace pour attraper le flétan du Groenland, les chabots et les crevettes. Les pièges cibleront les crevettes et les invertébrés benthiques (p. ex. le buccin), et la caméra recueillera des données sur les oursins, les crabes et d'autres espèces qui ne sont pas sensibles au chalut, ainsi que des

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Research Vessel	1	30.4 m	The research vessel proposed to do this work is the Patrick and William. The vessel selected has A-frame and winch capacities. It has the capacity to trawl (trawling net and warp), as well as longlining equipment (groundline and float lines). The vessel has a covered deck space and indoor lab area to accommodate science work. It has all safety certifications and standards as per Transport Canada regulations.

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Diesel	fuel	1	21000	21000	Gallons	The fuel tanks of the vessel is capable of storing enough fuel to sustain operations for up to 60 days.
Oil and Lubriation products	hazardous	5	5	25	Gallons	Engine Oil and lubrication products will be used and stored to support the proper function of the vessel's engine.

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3	Desalination of seawater to freshwater onboard the vessel. Vessel is equipped with water makers, capable of producing fresh potable water from seawater.	Vessel is equipped with advanced water makers, capable of producing fresh potable water from seawater. This ensures a continuous supply of drinking water and fresh water for other needs.

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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The physical environment is the marine environment adjacent to the community of Qikiqtarjuaq and extends outwards to the NSA boundary. The study region is in the general proximity to the Auyuittuq National Park. The study region ranges in depth from 200m to 1000m.

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The biological environment includes marine fish, zooplankton, marco benthos and other marine organisms. The benthic habitat is disturbed during trawling events. Spotted Wolffish, a species at risk, live in this region and are captured in previous trawling events.

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The study area is adjacent to the community of Qikiqtarjuaq. We are working in the marine environment where community members may hunt for marine mammals or fish for anadromous Arctic Char or other marine species.

Miscellaneous Project Information

All work is done in collaboration with the Hunters and Trappers Organisation. Our research is designed to support interests in emerging marine fisheries as well as any concerns they may have regarding the presence of a research vessel in the region. All work conducted has been approved by the HTO in advance of the field season.

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1.) Remain out of all marine sanctuaries, marine protected areas and any other land identified as protected. Sampling adjacent to the boundaries of these areas will be limited. 2. All Species at Risk (Wolffish) will be live released immediately upon capture. 3. If community members are hunting in an area - the vessel will move away and work in another area. We will consult with the HTO to ensure that we do not disturb specific organised hunts and areas that may be used by community members while work is being conducted. 4.) We are trawling for a minimal amount of time to ensure that we minimize impacts of habitat on the ocean floor. The length of time needed to capture the wide range of biodiversity is approximately 15 minutes per tow. This is adhered to while conducting scientific research.

Cumulative Effects

Habitat damage to the ocean floor is the largest cumulative effect from trawling and marine floor disturbance.

