ᓄᓇᕗᒻ ᐊᐸᑎᓕᓱᓴᐅᔪᑦ ᑲᑎᒪᔨᖏᑕᑎᒍᑦ ᑐᓴᔪᖅᑐᑦ ᖃᒥᖅᑭᐅᓴᖅ #126478

ICENAV

ᑐᓴᔪᖅᑐᑕᐅᔨᖅ ᖃᓄᐃᓂᒋᔭᐅ:	New
ᐱᓕᓱᐊᓱᐅᔨᒪᔨᑦ ᖃᓄᐃᓂᒋᔭᐅ:	Scientific Research
ᐅᓪᓗᖏᓪ ᑐᓴᔪᖅᑐᑎᓕᐊᓂᐅᔭᓪ:	Monday, July 20, 2026
Period of operation:	from 2026-08-20 to 2028-08-30
ᐱᓕᓱᐊᖃᖅᑕᒪᔨᖅ:	José Lagunas 2459 Rte de la Bravoure Québec QC G3J 1X5 Canada ᐅᖃᓗᓕᐅᑎᑦ: +1 418 844 4000 ext. 4506 , ᓯᑲᐅᑯᑦ:

⊃ϟᐅLϟᖏᑦ

ᖃᓄᐃᑦᑐᑎᓂᖅ ᐱᓕᕆᔨᖃᖅᓂᐊᕆᔨᖏᓐᓂᖅ

ᖃᖅᓗᓇᑎᑐᑦ: Please refer to attached description of the ICENAV project in the project documents

ᐅᐃᓴᑎᑐᑦ: Please refer to attached description of the ICENAV project in the project documents

ᐃᓄᖅᑎᑐᑦ: Please refer to attached description of the ICENAV project in the project documents

Personnel

Personnel on site: 13
Days on site: 10
Total Person days: 130
Operations Phase: from 2026-08-20 to 2028-08-30

ᐱᓕᕆᐊᕆᔭᐅᓂᐊᖅᑐᑦ

ᓇᒥ	ᖃᓄᐃᑦᑑᒥᑦ ᐱᓕᕆᐊᖃᕐᓂᐊᖅᐸ	ᑭᒃᑯᑦ ᓄᓇᕐᑰᑖᓂ	ᑐᓴᐅᒪᔭᒃᓴᑦ ᓄᓇᐅᑉ ᖃᓄᖅ ᐊᑐᒐᐅᓚᐅᖅᓯᒪᔭᕆᐊᖓᓐᓂᒃ	ᐃᑦᓴᕐᓂᑕᖃᕐᕕᐅᕙᓚᐅᖅᐸ ᐃᓄᙵᑦ ᓇᔪᖅᑕᐅᖃᑦᑕᕐᓂᒌᕙᓗ ᑕᐃᑦᓱᒪᓂᑐᖃᐅᓕᖅᑐᖅ	ᖃᓂᓐᓂᖅᐹᖅ ᓄᓇᓕᖕᔭᐅᔮᖅ ᐊᒻᒪᓗ ᓴᐳᒻᒥᒃᔾᕕᐅᕙᓗ ᓱᓇᓄᑦ
Sampling region I	Scientific/International Polar Year Research	Marine	Please refer to the technical description of the scientific program in the attached documents.	Please refer to the technical description of the scientific program in the attached documents.	Please refer to the technical description of the scientific program in the attached documents.
Sampling region II	Scientific/International Polar Year Research	Marine	Please refer to the technical description of the scientific program in the attached documents.	Please refer to the technical description of the scientific program in the attached documents.	Please refer to the technical description of the scientific program in the attached documents.

ᓄᓇᓕᐅᑉ ᐃᓚᐅᖃᑕᐅᓂᖓ ᓄᓇᓖᑦᑐ ᐊᕕᒃᑐᖅᓯᒪᐅᕐᓂᖓᓄᑦ ᐃᑲᔪᑕᐅᔪᓇᖅᑐᑦ

ᓄᓇᓕᒋᔭᖅ	ᐊᑏᑦ	ᑲᑐᔾᔨᐊᖃᑎᒌᒋᔭᖅ	ᖃᖓᓗ ᑐᓴᖅᑎᑕᐅᓚᐅᕆᐊᖏᓐᓂᒃ
ᖃᐅᓯᐃᑦᑐᖅ ᕿᓴᓘᑦ	Sandi Gillis	Qillaq Innovations	2025-05-20

ᓇᐃᓴᓐᓰᑦ ᐱᒧᓐᓇᐅᑏ ᐊᓐᒋᖅᑕᐅᓯᒪᔪᑦ

ᓇᒦᒋᐊᓐᒋᓐᓂᒃ ᐱᓕᕆᐊᕆᕝᕕᐅᓂᐊᖅᑐᑦ ᑎᑎᕋᕐᓗᒋᑦ:

Kitikmeot
North Baffin

ᓇᐃᓴᓐᓯᒃᑲᓐ ᐱᒧᓐᓇᐅᑏ ᐊᓐᒋᖅᑕᐅᓯᒪᔪᑦ

ᒐᕙᒪᒋᔭᐅᔩᑉ ᐊᕕᒃᑐᖅᓯᒪᐅᕐᓂᖓᓐᓂ ᒪᓕᒐᕐᓅᖓᔪᓂᒃ ᐱᕐᑯᔭᕐᓅᖓᔪᓂᒡᓗ ᑲᒪᔩᑦ ᐱᔪᓐᓇᐅᑎᑖᕈᑎᓂᒃ ᓇᐃᓴᓐᓯᓄᒡᓗ ᑲᔪᓰᒃᑲᐃᔩᑦ	ᖃᓄᐃᑦᑐᓪᓚᕆᐅᕙ ᓇᐃᓴᓐᓯᑖᕈᑕᐅᔪᖅ ᐱᔪᓐᓇᐅᑎᑖᕈᑕᐅᔪᖅ ᐊᓐᒋᖅᑕᐅᔪᕐᔫᓐᓃᑦ	ᒫᓐᓇ ᖃᓄᐃᓕᖓᕙ	ᐅᓪᓗᒥ ᑐᓂᔭᖅ/ ᑐᒃᓯᖅᑑᑕᐅᓚᐅᖅᓯᒪᔪᖅ	ᑭᒡᓕᖅᑲᕐᕕᖓ
Nunavut Planning Commission	The NPC has completed its review of the above noted project proposal. It conforms to the North Baffin Regional Land Use Plan (NBRLUP). The proponent has undertaken to coply with the applicable conformity requirements of Appendic C, H and I.See NPC letter attached in project documents	Active	2026-06-11	

Project transportation types

Transportation Type	ᓱᓇᒧᑦ ᐊᑐᒐᐅᓂᐊᖅᐸ	Length of Use
Air	CCGS Helicopter for reconnaissance	
Water	CCGS Henry Larsen	

Project accomodation types

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ᐱᕐᑯᑦ ᐊᖏᔪᖅ ᐊᑐᖅᑕᐅᓂᐅᕓᔪᖅ ᐃᓚᖃᓯᐅᑎᒍᒋᑦ ᐃᑰᑕᐃᑦ, ᒥᓪᒍᐊᕈᑏᑦ, ᖃᖓᑕᓲᖅ, ᓄᓇᓯᐅᑦ ᐊᓯᖏᓪᒍ

ᐊᖏᔪᖅ ᐱᕐᑯᑦ ᐊᑐᒐᐅᓂᐊᖅᑐᖅ ᖃᓄᐃᑦᑑᓂᖓ	ᖃᑦᓯᐅᕙᑦ	ᐊᖏᓂᖏᑦ - ᐳᖅᑐᓂᖏᑦ	ᓱᓇᒧᑦ ᐊᑐᒐᐅᓂᐊᖅᐸ
CCGS Henry Larsen	1	100x20x7 [m]	The ship will support Icenav's request for dedicated primary ship time in the Northwest Passage intersection, Parry Channel, Melville Sound and M’Clintock Channel
CCG Helicopter	1	12x10x3 [m]	Launched from CCGS Henry Larsen for ice-survey operations
FLIR Skyranger drone	1	.45x.8.1.35 [m]	Drone to be used in sea-ice survey
DJI Matrixe 350	1	.8x.7x.4 [m]	Drone to be used in sea-ice survey

ᑎᑎᕋᐅᓯᕆᓗᒍ ᐅᖅᓱᒃᓴᐃᑦ ᐊᑦᑕᓇᖅᑐᖅᑕᓖᓪᒍ ᐊᑐᖅᑕᐅᓂᐊᕐᓂᖏᑦ

ᓱᓇᒧᑦ ᐅᖅᓱᒃᓵᖏᐊᖅ ᐊᑐᒐᐅᓂᐊᖅᐸ	ᖃᓄᐃᑦᑐᓪᓚᕆᐅᕙ ᐅᖅᓱᒃᓵᖏᐊᖅ	ᖃᑦᓯᐅᕙᑦ ᐅᖅᓱᒃᓴᖃᐅᑏᑦ	ᐆᒃᓴᐅᐸ ᐃᒪᖃᖅᑎᕆᔾᓇᕐᓂᖓ	ᑲᑎᓪᒍᒍ	ᐆᒃᓴᐃᑦ ᐊᒥᓲᓂᖏᑦ	ᓱᓇᒧᑦ ᐊᑐᒐᐅᓂᐊᖅᐸ
Information is not available						

ᐃᒪᖅ ᐊᑐᖅᑕᐅᔨᒫᖅᑐᖅ

ᐅᓪᒍ ᑕᒫᖅ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᖅ	ᖃᓄᖅ ᐃᒥᖅᑕᖃᑦᑕᕐᓂᐊᖅᐸᑦ	ᓇᑭᑦ ᐃᒥᖅᑕᖃᑦᑕᕐᓂᐊᖅᐸᑦ
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ᐊᖏᑕᑯᑦ

ᐊᖏᑕᑯᓕᓂᐊᕐᓂᖅ

ᐱᓕᓐᐊᓐᖏᐅᔪᒪᔨᒧᑦ ᐱᓕᓐᐊᓐᖏᐅᓂᐊᖅᑐᖅ	ᖃᓄᐃᔅᑐᖅ ᐊᖏᑕᑯᖅ	ᖃᓄᐃᑎᒋ ᐊᖏᑕᑯᑦ ᓴᖅᑭᐊᓂᐊᖅᑐᓇᖏᐅᓪᓚᑦ	ᖃᓄᖅ ᐊᖏᑕᖅᑕᐅᓂᐊᖅᐸ	ᓴᓗᒻᒪᖅᓴᐅᑎᖏᓐᓄᑦᓂᐅᓂᐊᖅᑐᑦ
Scientific/International Polar Year Research	Other, CCG waste disposal policy	N/A	Canadian Coast Guard vessels operating in the Arctic comply with the Arctic Waters Pollution Prevention Act, the Arctic Shipping Safety and Pollution Prevention Regulations, the Canada Shipping Act, 2001, and associated federal environmental management procedures. Under these authorities, ship-generated garbage, oily waste, hazardous waste, and most wastewater are retained, treated, or landed at approved facilities rather than discharged into Arctic waters.	The CCG has invested in advanced wastewater-treatment systems to reduce environmental impacts from ship operations. According to a 2023 Coast Guard announcement, residual waste from the new wastewater treatment systems is retained in onboard tanks and disposed of in environmentally responsible ways.

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Risks: 1) Losing deployed drifters 2) Underwater noise from scientific acoustic sources 3) noise from drones on birds 4) Drone crashes Mitigation 1) Deploy drifters in large floes to ensure they can be tracked 2) The acoustic source to be used is low power and will have lower propagation distances than the CCGS Henry Larsen itself. Icebreaker noise is in the 210-220 dB range and contains low frequency noise which propagates very far in comparison to the scientific acoustic source. 3) Noise from drones on birds is well studied, very minor impacts in the worst case. Birds tend to avoid them. 4) The flights of the drones will be conducted under good atmospherical conditions and clear visibility. The RHIB (rescue boats) of the CCGS Henry Larsen will stand ready in case recovery is needed

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

please refer to technical scientific description of the project in the attached documents

SECTION H2: Disposal At Sea

Canadian Coast Guard vessels operating in the Arctic comply with the Arctic Waters Pollution Prevention Act, the Arctic Shipping Safety and Pollution Prevention Regulations, the Canada Shipping Act, 2001, and associated federal environmental management procedures. Under these authorities, ship-generated garbage, oily waste, hazardous waste, and most wastewater are retained, treated, or landed at approved facilities rather than discharged into Arctic waters.

SECTION I1: Municipal Development

ᐃᓕᓴ ᐊᐸᑎᐅᐸ ᖃᓄᐃᑦᑐᑦᓯᓇᐅᓂᖏᓐᓄ: ᓄᓇᐅᐸ ᖃᓄᐃᑦᑐᑉᓂᖏᓐᓄ

please refer to technical scientific description of the project in the attached documents

ᐃᓕᓴ ᐊᐸᑎᐅᐸ ᖃᓄᐃᑦᑐᑦᓯᓇᐅᓂᖏᓐᓄ: ᐅᒪᔪᖅᑕᖃᖅᓂᖏᓐᓄ

ᐃᓕᓴ ᐊᐸᑎᐅᐸ ᖃᓄᐃᑦᑐᑦᓯᓇᐅᓂᖏᓐᓄ: ᐃᓄᓕᓇᓂᕐᒧᖏᓐᓄᑦ-ᐱᔪᓕᐊᔪᓕᓇᓂᕐᒧᖏᓐᓄᑦ

Miscellaneous Project Information

ᓴᓗᓴᐃᖅᑕᐅᓂᖓᑦ ᐊᑲᑐᖅᑕᐅᓯᒪᔪᑦ ᖃᓄᐃᑦᑐᑉᓂᖓᑦ ᐸᓪᐅᒥᐱᓯᖅᑕᐅᓂᐊᕐᓂᖓᓪᓗ

Risks: 1) Losing deployed drifters 2) Underwater noise from scientific acoustic sources 3) noise from drones on birds 4) Drone crashes Mitigation 1) Deploy drifters in large floes to ensure they can be tracked 2) The acoustic source to be used is low power and will have lower propagation distances than the CCGS Henry Larsen itself. Icebreaker noise is in the 210-220 dB range and contains low frequency noise which propagates very far in comparison to the scientific acoustic source. 3) Noise from drones on birds is well studied, very minor impacts in the worst case. Birds tend to avoid them. 4) The flights of the drones will be conducted under good atmospherical conditions and clear visibility. The RHIB (rescue boats) of the CCGS Henry Larsen will stand ready in case recovery is needed

Cumulative Effects

Impacts

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	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	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	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
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ᐅᓴᖃᑦᑕᕐᓂᖅ																									
Scientific/International Polar Year Research		-	-	-	-	-	-	-	-	-	-	-	-	N		-	-	-	M	-		-	P	-	P	-
ᐃᑐᑦᑎᓗᓂᖅ																									
-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-

(P = ᐊᑲᐅᓴᑭᔪᓂᓐᓇᖅᑐᑦ, N = ᐊᑲᐅᖏᑭᔪᑕᐅᔪᓂᓐᓇᖅᑐᑦ ᕿᓪᐅᒥᔪᔪᖅᑐᖅᑕᐅᔪᓂᓐᓇᑎᑦᑐᓴᓪ, M = ᐊᑲᐅᖏᑭᔪᑕᐅᔪᓂᓐᓇᖅᑐᑦ ᕿᓪᐅᒥᔪᔪᖅᑐᖅᑕᐅᔪᓂᓐᓇᖅᑐᓴᓪ, U = ᖃᐅᔨᒪᓂᓂᑎᑦᑐᖅ)

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List of Project Geometries

1	polyline	Sampling region I
2	polyline	Sampling region II