Nunavut Research Institute / ᓄᓇᕗᑦ ᖃᐅᔨᓴᖅᑐᑦᑕᓕᕆᔨᒃᑯᑦ
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SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 04 002 25R-M

ISSUED TO: Cian Sherwin
Real Ice Development Company LTD.
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LL57 2UD United Kingdom

TEAM MEMBERS: A.Ceccolini,A.Smith,A.Woods,S.Woods,P.M-Daguet,P.Hughes,T.Clipston,S.Fitzgerald,J.Pantling

TITLE: Real Ice-January Field Test in Cambridge Bay, Canada

OBJECTIVES OF RESEARCH:
We want to demonstrate that sea ice can be thickened up using simple devices incorporating a submersible water pump, and only using zero-emission energy. During the test we will track a number of metrics, including the extent of water displacement, the quality and conductivity of the sea-ice created, and sea-ice, snow and air temperatures. Real Ice is testing scientific and engineering work around the preservation and restoration of sea ice in the Arctic Ocean to inform wider research on sea ice thickening. The importance of the Arctic Sea ice for global climate as well as for local populations is well documented scientifically. By taking an iterative approach, we will steadily prove out the individual components of our approach which will inform the design of a large-scale experiment to prove that sea ice can be thickened, at scale, using low-impact, zero-emission techniques.

TERMS & CONDITIONS:
The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (23YN044) and by the Department of Culture & Heritage's archaeological sites terms and conditions. These terms and conditions will form part of this licence.

DATA COLLECTION IN NU:
DATES: January 10,2025 to May 30,2025
LOCATION: Cambridge Bay

Scientific Research License 04 002 25R-M expires on December 31,2025
Issued at Iqaluit, NU on December 2,2024

James Shirley
Science Advisor

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