

SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 01 008 26N-M

ISSUED TO: Tom Meijeraan
Arctic Reflections
Paardenmarkt 1
Delft, Zuid Holland
3525VG The Netherlands

TEAM MEMBERS: F.Ypma, C.Owen, S.Afzali, R.Pritchett, W.Schellingerhout

TITLE: Arctic Ice Thickening Field Test, Qikiqtarjuaq, Nunavut

OBJECTIVES OF RESEARCH:

The Arctic is warming faster than other parts of the world, causing sea ice to melt earlier each year. This affects wildlife, the climate, and the way people in Nunavut travel and hunt. One cause of this melting is that darker ocean water absorbs more heat than bright white ice. When sea ice disappears, the ocean warms even faster. To help reduce this warming, our team from Arctic Reflections is testing a method called Arctic Ice Thickening. The idea is simple: in winter, we pump seawater onto the ice surface, just like the way ice roads are constructed. The cold air freezes the water and makes the ice thicker. Thicker ice may last longer in the spring and summer, helping to prolong the sea ice cover. Our research will take place near Qikiqtarjuaq in winter 2026 and 2027.

TERMS & CONDITIONS:

The holder of the license will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (NIRB File #25YN078)and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this license.

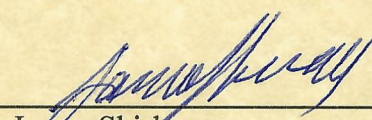
DATA COLLECTION IN NU:

DATES: February 1,2026 to July 31,2026

LOCATION: Qikiqtarjuaq Sea Ice

Scientific Research License 01 008 26N-M expires on December 31,2026

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James Shirley
Science Advisor

