

**SCIENTIFIC RESEARCH LICENSE**

LICENSE # 02 020 26N-A

ISSUED TO: Erik Sperling  
Department of Earth & Planetary Sciences  
Stanford University  
450 Jane Stanford Way, Building 320  
Stanford, California  
94305 USA

TEAM MEMBERS: D.Manik,L.Tarhan,M.Hodgkiss,M.Brazeau,S.Gouwy,A.Leslie  
N.Planavsky,E.Ellefson,S.Leibovitz,S.Reimer,D.Havlat,G.Winters

AFFILIATION: Stanford University

TITLE: Testing the Impact of Early Land Plants on the Earth System

OBJECTIVES OF RESEARCH:

For most of Earth's history, there were no land plants. Land plants arose approximately 450-350 million years ago, and likely affected weathering and erosion, nutrient cycles, and the amount of oxygen and carbon dioxide on Earth. How and when plants began to impact the Earth remains contentious. This study will investigate how early land plants affected the Earth using geochemical, paleontological, and modeling approaches. Our goal here is to generate a geochemical record of the Silurian and Devonian periods that can be tested against models of how plants changed the Earth.

TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (NIRB File # 26YN016 ) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this licence.

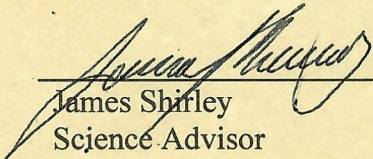
DATA COLLECTION IN NU:

DATES: July 15, 2026-August 15, 2026

LOCATION: Cornwallis Island, Truro Island

Scientific Research License 02 020 26N-A expires on December 31, 2026

Issued at Iqaluit, NU on April 28, 2026

  
James Shirley  
Science Advisor

