

Company Announcement, January 29th, 2019

Engineering Optimisation Studies Advancing; Updated Port Designs Complete

HIGHLIGHTS:

- **Engineering companies Nuna Logistics, PND Engineers, Tetra Tech, China Communications Construction Co (C-CCC) conducted a site visit to Kvanefjeld Project area in August 2018 as part of project optimisation**
- **Arctic port design specialists PND Engineers now completed optimised port design**
- **C-CCC worked collaboratively with PND providing the on-shore aspects of port design**
- **Tetra Tech report on civil engineering works completed in November 2018**
- **With port studies now complete, Nuna Logistics finalising updated civil costs**

Greenland Minerals Ltd ('GML' or 'the Company') is pleased to update on engineering studies to optimise the civil design and construction strategies for the Kvanefjeld Project. On-site studies were conducted in August 2018 by a multi-disciplinary team of engineers from Tetra Tech, Nuna Logistics, PND Engineers and C-CCC.

The North American arctic specialist port design company PND Engineers has completed a design optimisation for the port facilities. The location of the port facilities at the Tuna Peninsula has been enhanced to allow for increased use of local construction materials. This will reduce the overall capital cost of the project by taking advantage of the abundant source of good quality aggregate material available for port construction. The port location on the Tuna Peninsula is located at the base of the Narsaq valley in an area that is currently used for a municipal rubbish dump. PND Engineers have recommended the use of Open Cell Technology for the project as it offers the lowest cost and least construction risk.

C-CCC is China's largest construction company with extensive experience in infrastructure construction including Ports. C-CCC worked collaboratively with PND Engineers to provide the on-shore port design and cost estimate for associated facilities. C-CCC has provided an extensive design of the on-shore facilities for an efficient port operation. C-CCC have included flexibility within the design to allow for a staged development strategy and delivered a high level of design detail for the updated cost estimate.

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In November 2018 Tetra Tech redesigned aspects of the project to optimise civil design, that led to a dramatic reduction in civil earth works associated with project development. Cut and fill quantities were reduced to ~20% of the original design.

Nuna Logistics is currently compiling an updated civil construction cost estimate for the project based on the new civil design. This will detail the cost reductions accurately. This updated estimate is based on new information gained from the site visit, and the revised studies by the participating engineering firms.

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ABOUT GREENLAND MINERALS LTD.

Greenland Minerals Ltd (ASX: GGG) is an exploration and development company focused on developing high-quality mineral projects in Greenland. The Company's flagship project is the Kvanefjeld Rare Earth Project (rare earth elements, uranium, zinc). A pre-feasibility study was finalised in 2012, and a comprehensive feasibility study was completed in 2015 and updated following pilot plant operations in 2016. The studies highlight the potential to develop Kvanefjeld as a long-life, low cost, and large-scale producer of rare earth elements; key enablers to the electrification of transport systems.

GML is working closely with major shareholder and strategic partner Shenghe Resources Holding Co Ltd to develop Kvanefjeld as a cornerstone of future rare earth supply. An exploitation (mining) license application for the initial development strategy was reviewed by the Greenland Government through 2016 -17 and was updated in 2018 following additional supporting studies.

In 2017-18, GML undertook technical work programs with Shenghe Resources Holding Co Ltd that improved the metallurgical performance and simplified the development strategy and infrastructure footprint in Greenland. This will enhance the project cost-structure and ensure that Kvanefjeld is aligned with downstream processing. In addition, the Company continues its focus on working closely with Greenland's regulatory bodies on the processing of the mining license application and maintaining regular stakeholder updates.

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Greenland Minerals Ltd will continue to advance the Kvanefjeld project in a manner that is in accord with both Greenlandic Government and local community expectations and looks forward to being part of continued stakeholder discussions on the social and economic benefits associated with the development of the Kvanefjeld Project.

Competent Person Statement – Mineral Resources Ore Reserves and Metallurgy

The information in this report that relates to Mineral Resources is based on information compiled by Mr Robin Simpson, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr Simpson is employed by SRK Consulting (UK) Ltd ("SRK") and was engaged by Greenland Minerals Ltd on the basis of SRK's normal professional daily rates. SRK has no beneficial interest in the outcome of the technical assessment being capable of affecting its independence. Mr Simpson has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Robin Simpson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in the statement that relates to the Ore Reserves Estimate is based on work completed or accepted by Mr Damien Krebs of Greenland Minerals Ltd and Mr Scott McEwing of SRK Consulting (Australasia) Pty Ltd. The information in this report that relates to metallurgy is based on information compiled by Damien Krebs.

Damien Krebs is a Member of The Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the type of metallurgy and scale of project under consideration, and to the activity he is undertaking, to qualify as Competent Persons in terms of The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2012 edition). The Competent Persons consent to the inclusion of such information in this report in the form and context in which it appears.

Scott McEwing is a Fellow and Chartered Professional of The Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as Competent Persons in terms of The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2012 edition). The Competent Persons consent to the inclusion of such information in this report in the form and context in which it appears.

The mineral resource estimate for the Kvanefjeld Project was updated and released in a Company Announcement on February 12th, 2015. The ore reserve estimate was released in a Company Announcement on June 3rd, 2015. There have been no material changes to the resource estimate, or ore reserve since the release of these announcements.