

January 27, 2017
Project No: 1CT022.009

Vice President Environmental Affairs
TMAC Resources Inc.
Suite 1010 – 95 Wellington Street West
Toronto, Ontario, M5J 2N7

Attention: John Roberts, PEng, Vice President Environmental Affairs

Dear John:

RE: Doris North Project 2016 Annual Roberts Bay Jetty Inspection

SRK Consulting (Canada) Inc. was contracted by TMAC Resources Inc. to complete a geotechnical site inspection of the Roberts Bay jetty (jetty) at their Doris North project in Nunavut. The geotechnical inspection is an annual requirement in response to condition Part J, Items 18 and 19 in their Nunavut Water Board License 2AM-DOH1323, dated August 16, 2013 which was in effect at the time of the inspection. Furthermore, Commitment 19 of the Project Certificate No. 003, dated September 15, 2006, required ground temperature cables to be installed into the jetty foundation to monitor submarine permafrost.

The geotechnical site inspection was carried out by Principal Consultant Maritz Rykaart, PhD, PEng between July 12 and 15, 2016. Maritz was not accompanied by any TMAC staff during the inspection, which consisted of a comprehensive walkover survey of the jetty, followed by an aerial reconnaissance via helicopter.

Formal annual geotechnical inspections of the jetty have been carried out annually since 2009 and those reports are filed on the Nunavut Water Board (NWB) and NIRB public registries. All of these inspections have been conducted by SRK. This letter presents the findings of the 2016 geotechnical inspection.

As part of the 2015 inspection, SRK recommended that TMAC consult with PND Engineers Canada Inc., who designed and oversaw execution of the 2013 reconstruction of the jetty, to determine whether the settlement plates they installed are still required to be monitored. Although SRK did not observe any undue settlement or movement at the time of the inspection, SRK still recommends that this matter be discussed with PND to obtain closure on the issue.

Two ground temperature cables (GTCs) (SRK-JT1-09 and SRK-JT2-09) were installed through the jetty into submarine permafrost in 2009. One (SRK-JT2-09) was damaged in 2011, and a replacement

U.S. Offices:		Mexico Office:	Canadian Offices:	Group Offices:
Anchorage	907.677.3520	Hermosillo	Saskatoon 306.955.4778	Africa
Denver	303.985.1333	52.662.215.1050	Sudbury 705.682.3270	Asia
Elko	775.753.4151	Queretaro	Toronto 416.601.1445	Australia
Fort Collins	970.407.8302	52.442.218.1030	Vancouver 604.681.4196	Europe
Reno	775.828.6800	Zacatecas	Yellowknife 867.873.8670	North America
Tucson	520.544.3688	52.492.927.8982		South America

(SRK-JT2-12) was installed in 2012. This GTC was again destroyed when the jetty was reconstructed in 2013. SRK reviewed the data for GTC SRK-JT1-09, confirming that since construction of the jetty, there has been no change in the composition of the submarine permafrost. Similar to SRK's comments in the 2015 inspection report, SRK is of the opinion that it is not necessary to replace the damaged GTC; however, the active GTC should continue to be monitored.

Annual bathymetric surveys, to evaluate sediment transport and deposition changes due to the presence of the jetty, were carried out between 2008 and 2012. This confirmed that the most significant changes occurred immediately following construction, and subsequent changes are small enough to suggest steady state conditions have been reached. In 2013, DFO approved a reduction in the frequency of new bathymetric surveys to once every three years. The last survey was completed in 2015, and confirmed no changes had occurred.

This geotechnical site inspection suggests the overall jetty is generally in good shape with no obvious signs of distress or areas that require immediate attention. Following a discussion with site staff about the overall performance of the jetty over the past year, site staff confirmed, other than routine maintenance, the jetty had not required any additional work.

Sincerely,

SRK Consulting (Canada) Inc.


*This signature was scanned with the
author's approval for exclusive use in this
document; any other uses not authorized.*

Maritz Rykaart, PEng, PhD
Principal Consultant

Disclaimer—SRK Consulting (Canada) Inc. has prepared this document for TMAC Resources Inc.. Any use or decisions by which a third party makes of this document are the responsibility of such third parties. In no circumstance does SRK accept any consequential liability arising from commercial decisions or actions resulting from the use of this report by a third party.

The opinions expressed in this report have been based on the information available to SRK at the time of preparation. SRK has exercised all due care in reviewing information supplied by others for use on this project. Whilst SRK has compared key supplied data with expected values, the accuracy of the results and conclusions from the review are entirely reliant on the accuracy and completeness of the supplied data. SRK does not accept responsibility for any errors or omissions in the supplied information, except to the extent that SRK was hired to verify the data.

