



7th January 2020

Metallurgical Testwork Commenced - Laramie Rare Earths (REE) Project, Wyoming USA

- ◆ Initial metallurgical test work has commenced to determine if simple mineral separation techniques will allow upgrading through concentration of the REE minerals at the Company's 100% owned Laramie REE project located in Wyoming, USA;
- ◆ Initial petrographic study completed by Zenith indicates REEs occur as the mineral allanite. Allanite crystals observed are generally relatively coarse grained (0.4mm to 2.5mm) with distinct mineral grains indicating potential for easy liberation from the syenite host rock (ZNC ASX Release 14th Nov 2019);
- ◆ Zenith surface rock grab sampling returned REE mineralisation with TREO (Total Rare Earth Oxide) grades up to 0.60% whilst widespread, continuous REE mineralisation confirmed in all of nine recently announced systematic chip sample traverses (ZNC ASX Release 6th Nov 2019), including: 80m @ 0.40% TREO and 137m @ 0.37% TREO, indicating potential for large tonnages; and
- ◆ Test work is anticipated to be completed by late January 2020.

Zenith Minerals Limited ("Zenith" or "the Company") is pleased to announce that it has commenced a program of initial metallurgical test on REE samples from the Company's 100% owned Laramie REE project in Wyoming USA.

A 100kg bulk composite surface rock sample will be subject to a series of tests to determine if simple magnetic and/or gravity beneficiation techniques at coarse grainsizes can easily upgrade the concentration of REE minerals and reject gangue minerals. The work is being completed by Nagrom at its Western Australian metallurgical test work facility. Results are anticipated to be available in late January 2020.



Metallurgical Test work in progress at Nagrom's Facility in Western Australia

Corporate Details

ASX: ZNC

Issued Shares (ZNC)	243.4M
Unlisted options	5.6M
Mkt. Cap. (\$0.05)	A\$13M
Cash (30 th Sept 19)	A\$0.6M*
Debt	Nil
*pre rights issue Nov 19	

Directors

Michael Clifford:
Managing Director

Mike Joyce:
Non-Exec Chairman

Stan Macdonald:
Non-Exec Director

Julian Goldsworthy:
Non-Exec Director

Graham Riley:
Non-Exec Director

Major Shareholders

HSBC Custody, Nom.	12%
J P Morgan	6.1%
Nada Granich	5.5%
Miquilini	4.4%
Abingdon	4.2%

Contact Details

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Competent Persons Statement

The information in this report that relates to Exploration Results is based on information compiled by Mr Michael Clifford, who is a Member of the Australian Institute of Geoscientists and an employee of Zenith Minerals Limited. Mr Clifford has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking 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'. Mr Clifford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

7th January 2020

Authorised for release by the Zenith Minerals Limited Board of Directors

For further information contact:

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