



## ASX RELEASE

18 March 2022

# CELSIUS BEGINS DRILLING AT OPUWO COBALT PROJECT

### HIGHLIGHTS

- Drilling has commenced at Opuwo Cobalt Project.
- The first hole has now been completed.
- 8 x 150m PQ diamond holes to be drilled for new metallurgical test work.
- Additional metallurgical test program to also be undertaken.

Celsius Resources Limited (“Celsius” or “the Company”) is pleased to announce that its Namibian subsidiary, Opuwo Cobalt Mining Pty Ltd has commenced drilling at the Opuwo Cobalt Project. The first of eight PQ diamond drill holes has been completed. The ore was intercepted at the exact location modelled reinforcing the consistent nature of the Dolomite Ore Formation (“DOF”).

There have been heavy rains on site delaying mobilisation. Drilling is now occurring on two shifts and the remaining 7 holes are scheduled to be completed by end of April. Approximately 4 tonnes of fresh metallurgical sample will be obtained during the program.



Figure 1: Drilling at Opuwo.

## Metallurgical test work program update

As previously announced, past metallurgical test work carried out on Opuwo focused on producing a concentrate via flotation and then recovering the cobalt via either autoclave leaching or concentrate roasting. With a better understanding of the ore mineralogy, opportunities have arisen for enhancing the commercial viability of Opuwo through application of tailored metallurgical processes.

It is Celsius's intention to conduct a number of separate and bespoke metallurgical test work studies with different groups with specific expertise.

A promising metallurgical route being investigated involves the initial production of a low-grade bulk concentrate that maximises the recovered metal values from the ore that include cobalt, copper and zinc. The bulk concentrate is then treated in an acidic leach process that also maximises the extraction of the contained metal values and importantly results in low volumes of benign waste materials mainly in the form of silicates. More importantly for Opuwo, the high pyrite content can result in separate saleable products in the form of high-grade hematite and elemental sulphur or sulfuric acid.

Crucially the acid added to the leach is regenerated at high energy efficiency and low operating costs. All the steps in these possible flowsheets are borrowed from known commercial technologies applied across a number of applications.

Celsius MD Robert Gregory commented: "The Opuwo Project has the potential to be a world-class source of future cobalt supply. The conclusion of the drill program to generate ore samples for the commencement of the metallurgical testing and development work programs is an important step in establishing the feasibility of the Opuwo project. Of note, the identified processing options encompass both low cost and reduced environmental footprint that aligns with the increasing demand for cobalt and copper in electric vehicles."

This announcement has been authorised by the Board of Directors of Celsius Resources Limited.

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### Competent Persons Statement

Information in this report relating to Exploration Results is based on information reviewed and compiled by Dr Rainer Ellmies, who is a European Geologist (EurGeol) and Member of the Australasian Institute of Mining and Metallurgy (AusIMM) and the Principal Geological Advisor for the Opuwo Project of Celsius Resources. Mr. Ellmies discovered the Opuwo deposit in 2012 and 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 by the 2012 Edition of the Australasian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr. Ellmies consents to the inclusion of the data in the form and context in which it appears.

### About the Opuwo Cobalt Project

The Opuwo Cobalt Project is located in northwestern Namibia, approximately 800 km by road from the capital Windhoek, and approximately 750 km from the port at Walvis Bay (Figure 2). The Project has excellent infrastructure, with the regional capital of Opuwo approximately 30 km to the south. Good quality bitumen roads connect Opuwo to Windhoek and Walvis Bay. The Ruacana hydro power station (320 MW), which supplies the majority of Namibia's power, is located nearby, and a 66 kV transmission line passes through the eastern boundary of the Project

- Large scale and consistency: Indicated and Inferred Mineral Resource of 224.2 million tonnes, grading 0.12% cobalt, 0.43% copper and 0.54% zinc.
- 259,000 tonnes of contained cobalt, 971,000 tonnes of contained copper and 1,217,000 tonnes of contained zinc.
- Low in deleterious elements, notably arsenic, cadmium and uranium.
- Mining friendly, politically stable and safe location with excellent infrastructure.
- Cobalt: exposure to lithium ion battery industry.

The Opuwo Project consists of two Exclusive Prospecting Licenses covering approximately 719 km<sup>2</sup>

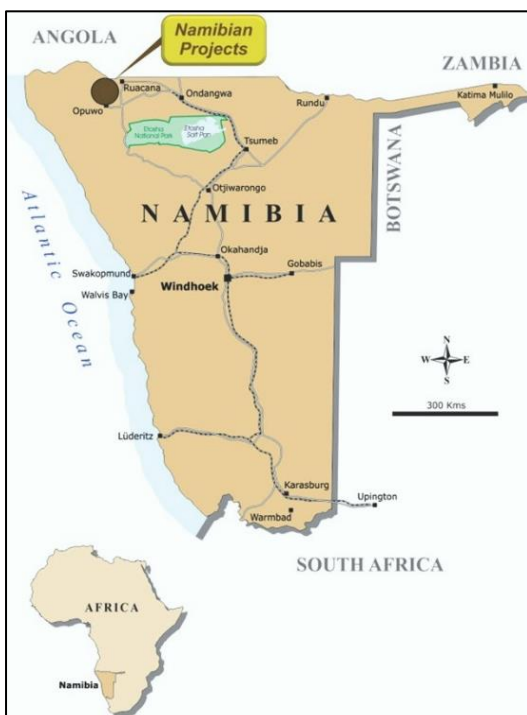


Figure 2: Location of the Opuwo Cobalt Project, Namibia