



28th May 2020

XTC ADVANCES TOWARDS 2ND ROUND OF DRILLING AT SOUTHERN CROSS GOLD PROJECT

Highlights:

- 🛠️ Activities now set to commence in preparation for second phase of RC drilling, focussing on key targets undrilled by XTC**
- 🛠️ Immediate action plan includes:**
 - Complete the validation review of historical data for the project;
 - Conduct advanced processing and imaging of merged ground magnetic datasets; and
 - Generate a geological model and prioritise drilling targets, utilising the newly processed relational dataset.
- 🛠️ Next round of drilling is fully funded and scheduled to commence in early Q3 2020.**
- 🛠️ Southern Cross is a prolific gold mining region with +15Moz gold produced to date and existing processing infrastructure.**

Xantippe Resources Limited (ASX: XTC) (XTC or the Company) is pleased to advise it is set to commence Phase 2 of its exploration program at its recently acquired Southern Cross gold project in Western Australia, with the objective of defining priority drill targets for the next phase of RC drilling, indicatively scheduled to commence in early Q3 2020.

XTC's maiden drilling programme, completed in April 2020, initially tested three targets - Xantippe, Glendower and Treasury South - and was successful in intersecting broad zones of gold mineralisation.¹

The Company's current aim is to move towards the Phase 2 drilling programme at the project. In order to prioritise targets for this programme, the Company will immediately undertake the following core activities:

- 🛠️ Implement the recommendations of the high-level data review undertaken by Expedito where all historical data will be subjected to a check and validation process before it is compiled into a master database;**

¹ Refer to ASX announcement dated 29th April 2020.

- 🛠️ Consolidate and merge ground magnetic surveys completed with publicly available historical datasets and conduct advanced processing and imaging of merged magnetic datasets. This will be supplemented by any new data that can be purchased or undertaken to provide a complete survey at high density; and
- 🛠️ Conduct a geological review and target update, utilising the newly processed ground magnetic dataset.

These core activities are anticipated to be completed by end Q2 and will be immediately followed by drill evaluation of at least three targets defined as most prospective. This work will culminate in the next round of RC drilling which is expected to be carried out early in Q3 2020.

The Company has previously reported potential high priority targets - Boodarding, Battle North and Alpine/Roma.² While these targets have previously delivered encouraging high-grade gold intersections, XTC will not rely solely on these to determine targets for the upcoming drill campaign and like all other potential targets will be vigorously analysed as part of the upcoming work programme.

Xantippe’s Managing Director, Mr Richard Henning commented:

“We are spoiled to have a depth of promising walk-up gold targets already demonstrated within our portfolio, and remain funded to go and drill priority targets in the near term. Timing has never been better to get busy, with the Australian gold price increasing by more than A\$500/oz since we announced our transformational acquisition of the tenement package in this prolific gold region in December 2019.”

“We have a plan to capitalise on the large amount of historical and public data available leading into the next phase of drilling to maximise our chances of success, and will spend the next several weeks consolidating this data to generate an updated geological model to assist with our drill targeting.”

Discussion of Next Steps

Advanced methods to be undertaken by XTC - including geochemistry, litho-geochemistry and spectral geology - have never previously been applied to the Southern Cross Project. With the application of these methods, the Company expects to significantly enhance the Project’s prospectivity.

² Refer to historical results reported in acquisition announcement dated 12th December 2019.

Further, previous exploration has been strongly focused on the near surface, which suggests that a large component of previous drilling has not effectively tested the Greenstone Belt or adjoining prospective stratigraphy.

Richard Henning further commented:

“It was a significant achievement to get our maiden drilling programme completed in good time and without any logistical issues. Having defined the historical mineralised zones, we will now use interpretative techniques to define, as accurately as possible, a second round of drilling.”

Southern Cross Greenstone Belt – Overview

XTC’s tenements cover around 30km of strike of the Southern Cross Greenstone Belt, which has historically produced around 15Moz gold, predominantly from the Marvel Loch and Southern Cross centres, both of which are in operation to varying extents.

The Southern Cross Greenstone belt is an elongated belt of altered intrusive and meta-sedimentary rocks with a strike length of about 300m. The belt has been metamorphosed to amphibolite and is complexly deformed by multiple phases of folding, shearing and faulting.

High quality government mapping is available for the Southern Cross region in both online and digital format. Regional geological mapping of this province at 1:250,000 scale was carried out by GSWA between 1973 and 1979.

Limited ground exploration activity has been conducted at Southern Cross since 2005.

Gold mineralisation in the Belt can be categorised into two distinct styles: shear hosted and vein deposits. Most gold deposits in the Southern Cross Greenstone Belt are located at contacts between different rock types or are controlled by shear zone networks.

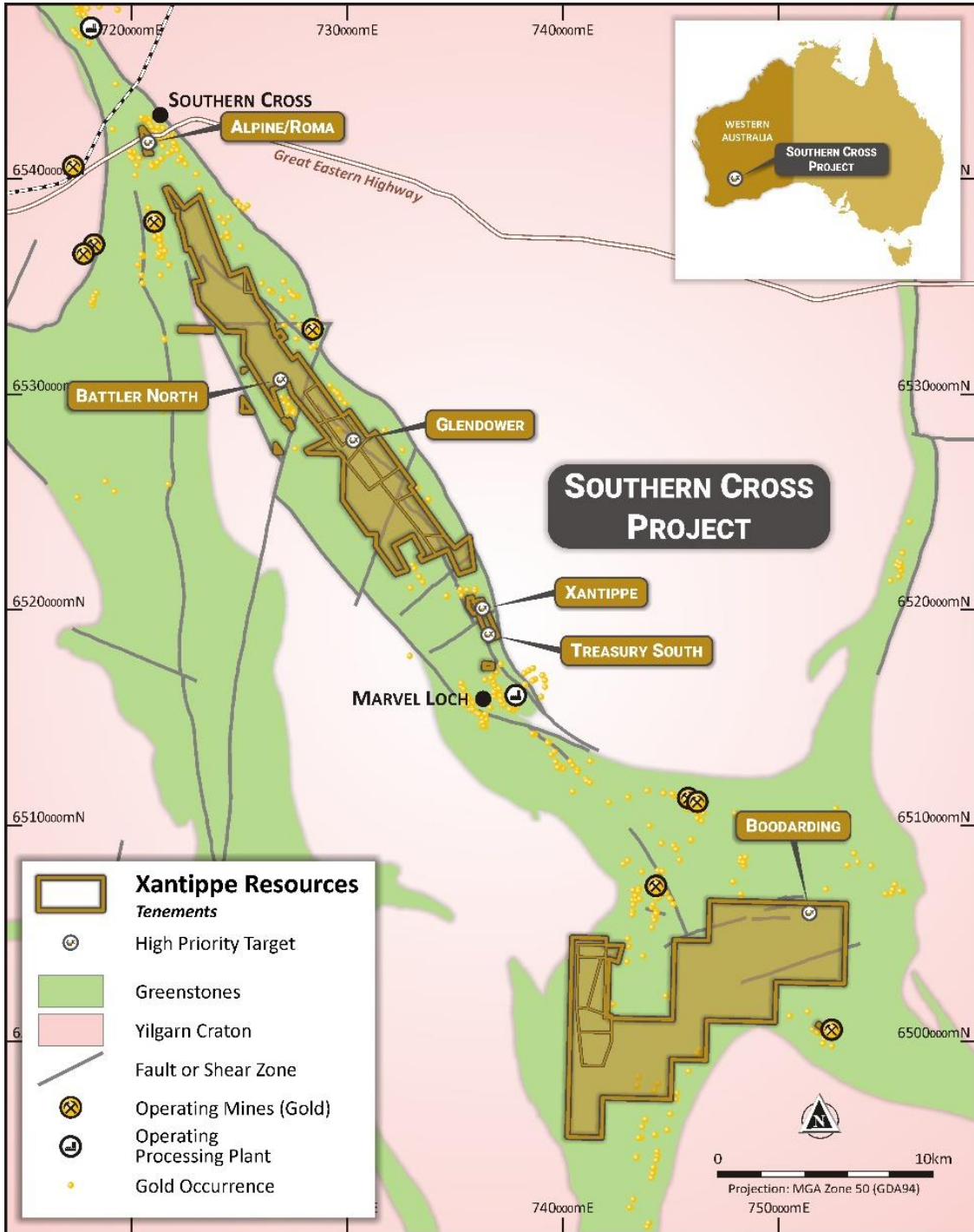


Figure 1: Xantippe tenements within the Southern Cross Greenstone Belt.

Authorised for release by the Xantippe Board of Directors.

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About the Southern Cross Gold Project

The Southern Cross Project is located 380km east of Perth, south east of Southern Cross in the Yilgarn Goldfield.

The project comprises 20 Prospecting Licences and 2 Exploration Licences with a combined area of around 76 km², over contiguous tenements cover around 30km of strike of the Southern Cross Greenstone Belt, which has historically produced around 15Moz gold, predominantly from the Marvel Loch and Southern Cross centres, both of which are in operation to varying extents.

The project area is serviced by sealed roads, grid power, scheme water, rail and town amenities. Minjar operates the Marvel Loch plant nearby and Ramelius Resources operates the Edna May facility some 60 kilometres to the west.