## Havilah Resources (ASX : HAV)

23 August 2013

Havilah Resources NL aims to become a significant new producer of iron ore, copper, gold, cobalt, molybdenum and tin from its 100% owned JORC mineral resources in northeastern South Australia. 120.3 million ordinary shares 31.6 million listed options 10.4 million unlisted options



# FURTHER GOLD IN SHALLOW TERTIARY CLAYS AT WEST KALKAROO

### HIGHLIGHTS

• Shallow Tertiary gold mineralisation confirmed in further aircore drillholes at West Kalkaroo.

• Clay hosted gold mineralisation envelope now extends across four drill lines (>150m).

• Good recoveries of gold from this shallow mineralisation will favourably enhance the economics of a conceptual starter open pit at West Kalkaroo.

Havilah (ASX : HAV) is pleased to report that further assay results recently to hand from its current aircore drilling program at West Kalkaroo continue to confirm significant grades of gold mineralisation in the targeted base of Tertiary clays as follows :

KKAC428 : 4m of 1.1 g/t Au (27-31m) KKAC432 : 7m of 0.88 g/t Au (28-35m) KKAC434 : 6m of 1.1 g/t Au (28-34m) KKAC436 : 4m of 1.1 g/t Au (27-31m)

This gold mineralisation occurs from 23-36m below surface in a distinctive darker coloured, roughly horizontal layer near the base of the Tertiary clay sequence. It is proving to be quite laterally persistent and can now be traced across four drill lines over a distance of at least 150m (see diagram). Assay results are awaited for drillholes already completed on three further drill lines to the east. Additional drillholes will also be completed on several lines to the west of the current drilling with the objective of establishing the full extent of the shallow gold mineralisation within the confines of the conceptual stage 1 open pit.

The aircore drilling method being employed, while ideal for testing this clay-hosted mineralisation, cannot penetrate hard rock, consequently many holes stopped in the underlying saprolite gold or native copper zones of the main Kalkaroo bedrock mineral resource. As expected, appreciable intersections of native copper and gold were encountered within the underlying bedrock resource envelope including :

KKAC428 : 22m of 2.6 g/t Au (73-95m) KKAC429 : 39m of 1.6 g/t Au (68-107m)

Commenting on these results, Havilah Chairman, Dr Bob Johnson, said "Our drilling is indicating a persistent layer of shallow clay hosted gold mineralisation, which is readily recovered by conventional cyanide leaching. This is extremely positive for a low capital start up of Kalkaroo. Treatment of this material could provide the



vital early cashflow required to underpin the starter open pit concept at West Kalkaroo, which we are presently evaluating."

To date, 35 aircore drillholes have been completed with a similar number planned over the next few weeks at West Kalkaroo. Results will continue to reported as they come to hand and will be incorporated into the economic model being developed for the starter open pit concept.



Conceptual Stage 1 starter open pit design at West Kalkaroo showing the Tertiary gold mineralisation envelope as presently defined by the shallow aircore drillholes completed to date.



*Cross section showing the Tertiary gold mineralisation envelope as presently defined by the recently completed aircore drill line within the Stage 1 conceptual open pit design.* 



For further information visit the Company website <u>www.havilah-resources.com.au</u> or contact :

Dr Bob Johnson, Chairman, on (08) 83389292 or email : info@havilah-resources.com.au

#### Competent Persons Statement

The information in this report has been prepared by geologists Dr Bob Johnson, who is a member of the Australasian Institute of Mining and Metallurgy, and Dr Chris Giles who is a member of The Australian Institute of Geoscientists. Drs Johnson and Giles are employed by the Company on consulting contracts. They have sufficient experience which is relevant to the style of mineralization and type of deposit under consideration to qualify as Competent Persons as defined in the JORC Code 2004. Drs Johnson and Giles consent to the release of the information compiled in this report in the form and context in which it appears.

#### About the Kalkaroo Copper-Gold Project

Kalkaroo Copper-Gold Project has a Measured and Indicated Resource of:

• 124 million tonnes @ 0.5% copper and 0.39g/t gold in the main copper-gold deposit.

• **18.6 million tonnes** @ **0.74 g/t gold** in the gold cap on top of the copper-gold deposit. (refer to table below for breakdown of JORC resource categories after original ASX release)

It has the following favourable development attributes:

- 622,500 tonnes of contained copper metal.
- Approximately 2 million ounces of gold.
- A free-milling, soft gold cap containing 446,000 ounces of gold at high recoveries (>97%), which will provide early cashflow.
- Expected copper and gold recoveries of up to 91% and 87% respectively, in the chalcopyrite sulphide material, which forms approximately 66% of the deposit.
- Conventional flotation circuit producing a high quality copper concentrate, containing 29% Cu for chalcopyrite material and 34% for chalcocite material and no deleterious elements.
- Life-of-Mine strip ratio of 3.2:1 allowing for 5% dilution of all grade blocks.
- Optimised open pit to 200m depth captures roughly 80% of the current total resource.
- Free digging material to approximately 120m depth (roughly to top of chalcopyrite zone).
- Development capital cost of approximately \$500 million.
- Excellent regional infrastructure and workforce, only 75 minutes from Broken Hill.

Classification	Tonnes	Cu grade %	Au g/t	Cut-off	SG
GOLD CAP					
Measured	18,690,000		0.74	0.2g/t	1.86
KALKAROO CuAu				0.3% Cu	
Measured	85,890,000	0.52	0.41	equiv.	2.50
KALKAROO CuAu				0.3% Cu	
Indicated	38,620,000	0.45	0.33	equiv.	2.65
KALKAROO CuAu				0.3% Cu	
Total Meas & Ind	124,510,000	0.50	0.39	equiv.	2.55