



# Havilah Resources

*A New Mining Force in South Australia*

**Havilah Resources Limited** plans to sequentially develop its portfolio of gold, copper, iron, cobalt, tin and other mineral resources in South Australia. Our vision is to become a new mining force, delivering value to our shareholders, partners and the community.

169 million Ordinary Shares -- 36 million Listed Options -- 8 million Unlisted Options

**ASX Code: HAV**

**ASX and Media Release: 22 July 2016**

## A New Mining Force in South Australia

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Havilah Resources Limited (**ASX:HAV**) ("Havilah" or the "Company") is pleased to attach an updated version of its presentation, entitled "A New Mining Force in South Australia" to be given by Managing Director, Dr Chris Giles later today in Noosa at the **Noosa Mining and Exploration Conference**.

This presentation summarises progress on the Portia gold mining operation and its upside potential plus Havilah's plans for the future. The presentation will also be posted on the Company's website at [www.havilah-resources.com.au](http://www.havilah-resources.com.au).

For further information visit the Company website [www.havilah-resources.com.au](http://www.havilah-resources.com.au) or contact Dr Chris Giles, Managing Director, on (08) 8338-9292 or email: [info@havilah-resources.com.au](mailto:info@havilah-resources.com.au).



# Havilah Resources

*A New Mining Force in South Australia*

- Cash flow from gold sales
- New project developments
- Exploration success



**Presentation and Company Update – 22 July 2016**

**Dr Chris Giles, Managing Director**



# Cautionary Statement

The information contained in this presentation is not financial product advice. The presentation is for information purposes and is of a general and summary nature only. Neither Havilah Resources Limited (Havilah) nor any member of the Havilah Group of companies, gives no warranties in relation to the statements and information in this presentation. Investors should seek appropriate advice on their own objectives, financial situation and needs.

This presentation contains certain statements which may constitute “forward-looking statements”. Such statements are only predictions and are subject to inherent risks and uncertainties which could cause actual values, performance or achievements to differ materially from those expressed, implied or projected in any forward looking statements.

Havilah disclaims any intent or obligation to update publicly any forward-looking statements, whether as a result of new information, future events or results or otherwise.

Investors are cautioned that forward-looking statements are not guarantees of future performance and investors are cautioned not to put undue reliance on forward-looking statements due to the inherent uncertainty therein.

## Competent Person Statement

The information in this presentation that relates to Exploration Targets , Exploration Results, Mineral Resources and Ore Reserves is based on data compiled by geologist, Dr Chris Giles, a Competent Person who is a member of The Australian Institute of Geoscientists. Dr. Giles is a director of the Company and is employed by the Company on a consulting contract. Dr. Giles has sufficient experience, which is relevant to the style of mineralisation and type of deposit and activities described herein to qualify as a Competent Person as defined in the 2012 Edition of ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’. Dr. Giles consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears. Information for Kalkaroo and Croziers has been updated to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported. All other information was prepared and first disclosed under the JORC Code 2004.

# Investment Key Points

- **Prospect of substantial cash flow from Portia gold mine this year<sup>1</sup>**  
*..... >\$5 million gold produced to date 2 months ahead of schedule.*
- **Future cash flow growth from new mining developments in the pipeline**  
*..... targeting at least 34,000 tonnes copper and 100,000 ounces gold annually from existing mineral projects<sup>2</sup>.*
- **Participation in exploration success and new discoveries**  
*..... proven discovery track record in highly prospective terrain.*
- **Exposure to a wide range of mineral commodities**  
*.....appreciable JORC resources for gold, copper, cobalt, iron ore, tin, uranium, molybdenum.*

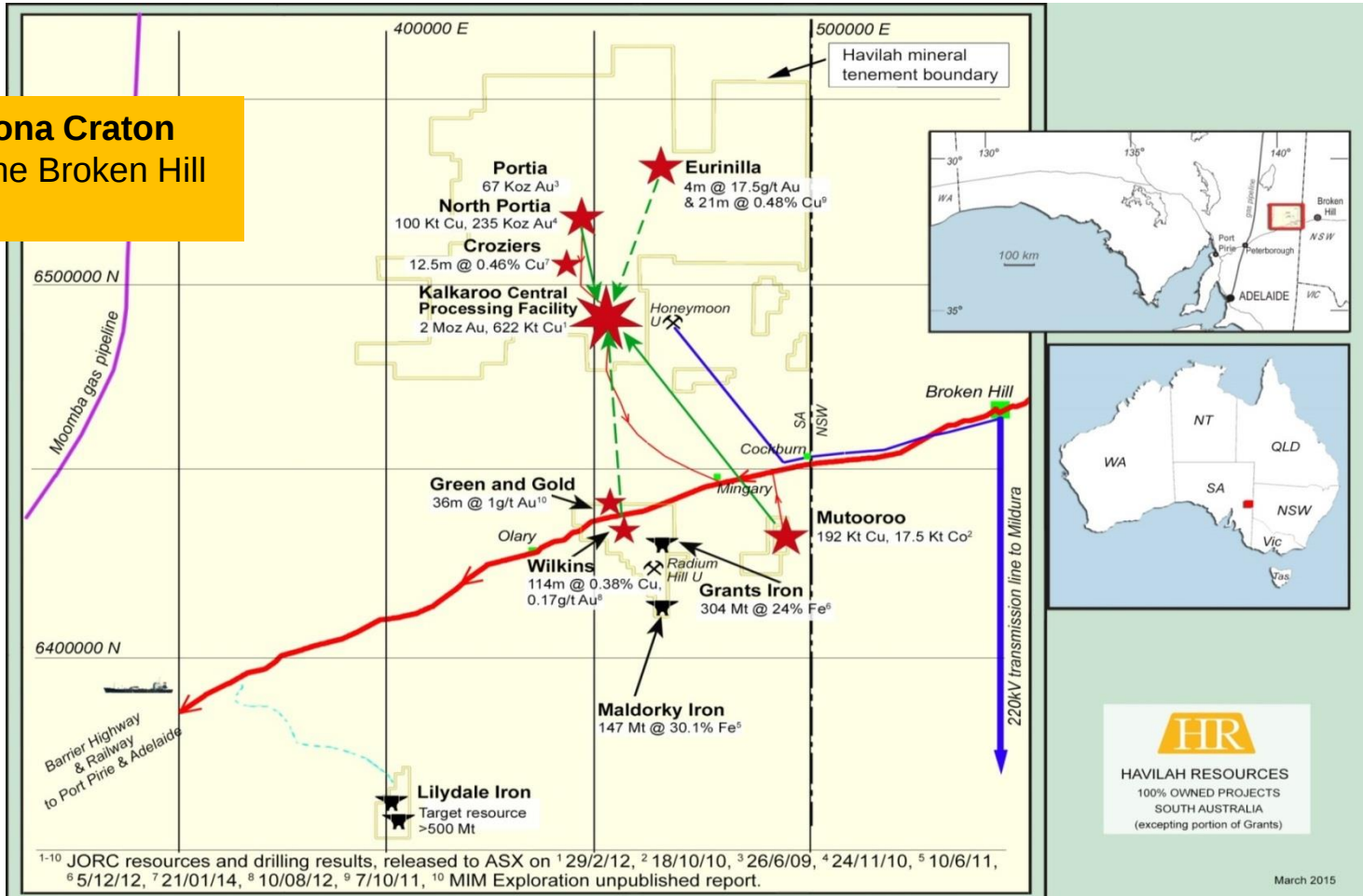
# Corporate Summary

| Capital Structure           | Millions | HAV v Small Resources (XSR) – 1 year |
|-----------------------------|----------|--------------------------------------|
| Cash (30 Apr 2016)          | \$0.3    |                                      |
| Debt (30 Apr 2016)          | \$2.8    |                                      |
| Shares                      | 168      |                                      |
| Options (Listed + Unlisted) | 45       |                                      |
| Market Cap (21 Jul 2016)    | \$70     |                                      |

**Our vision is to become a new mining force in South Australia, delivering value to our shareholders, partners and the community**

# Focus On NE South Australia

**Curnamona Craton**  
Host to the Broken Hill  
Orebody



**HAVILAH RESOURCES**  
100% OWNED PROJECTS  
SOUTH AUSTRALIA  
(excepting portion of Grants)

# Portia Gold Mine

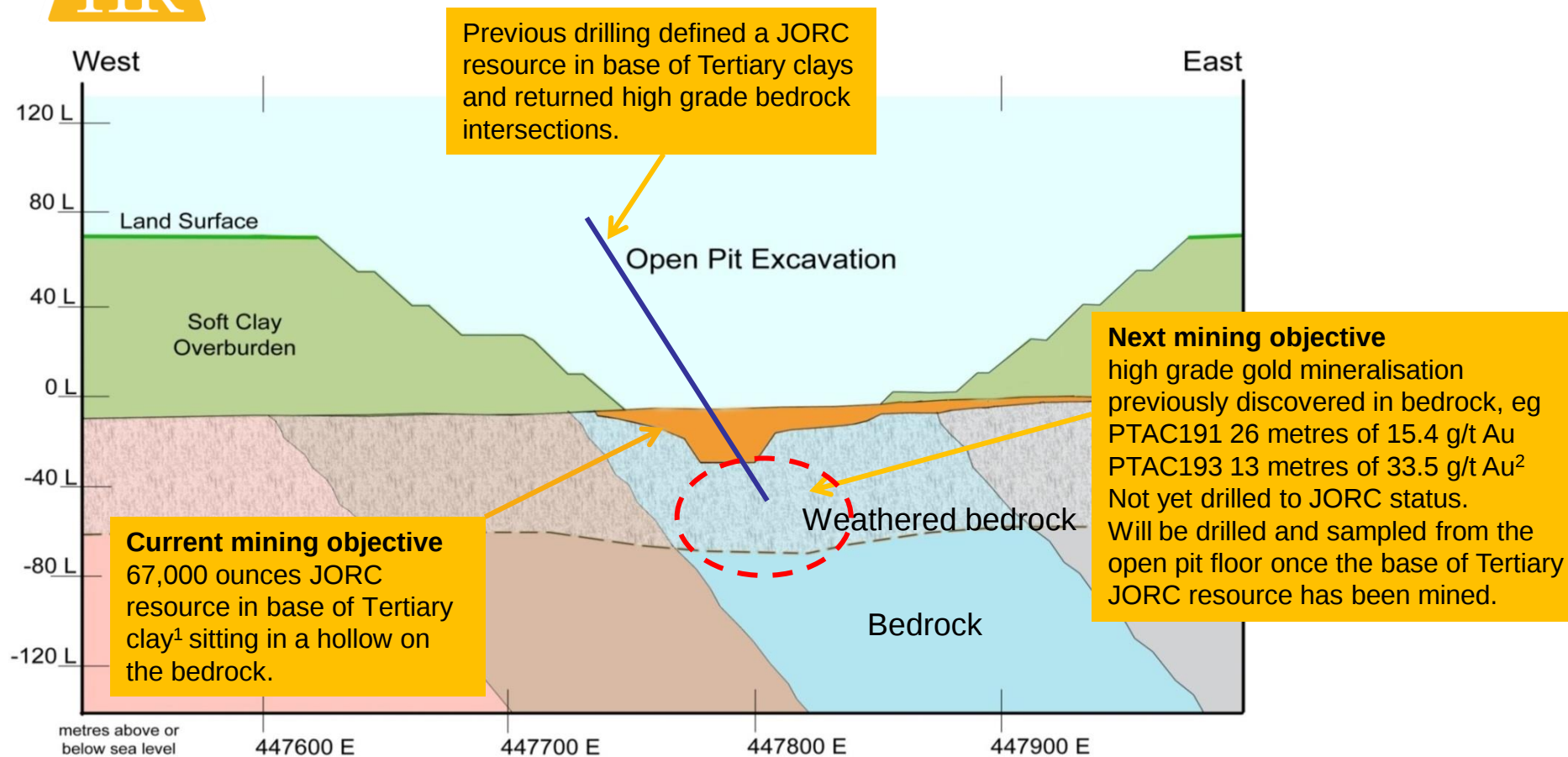
**CURRENTLY MINING MAIN ORE ZONE IN PIT FLOOR**



- Commenced 30 March 2015 with experienced Broken Hill contractor responsible for all mining.
- 15 months of overburden removal completed.
- Innovative funding arrangement – 50:50 revenue sharing with mining contractor.

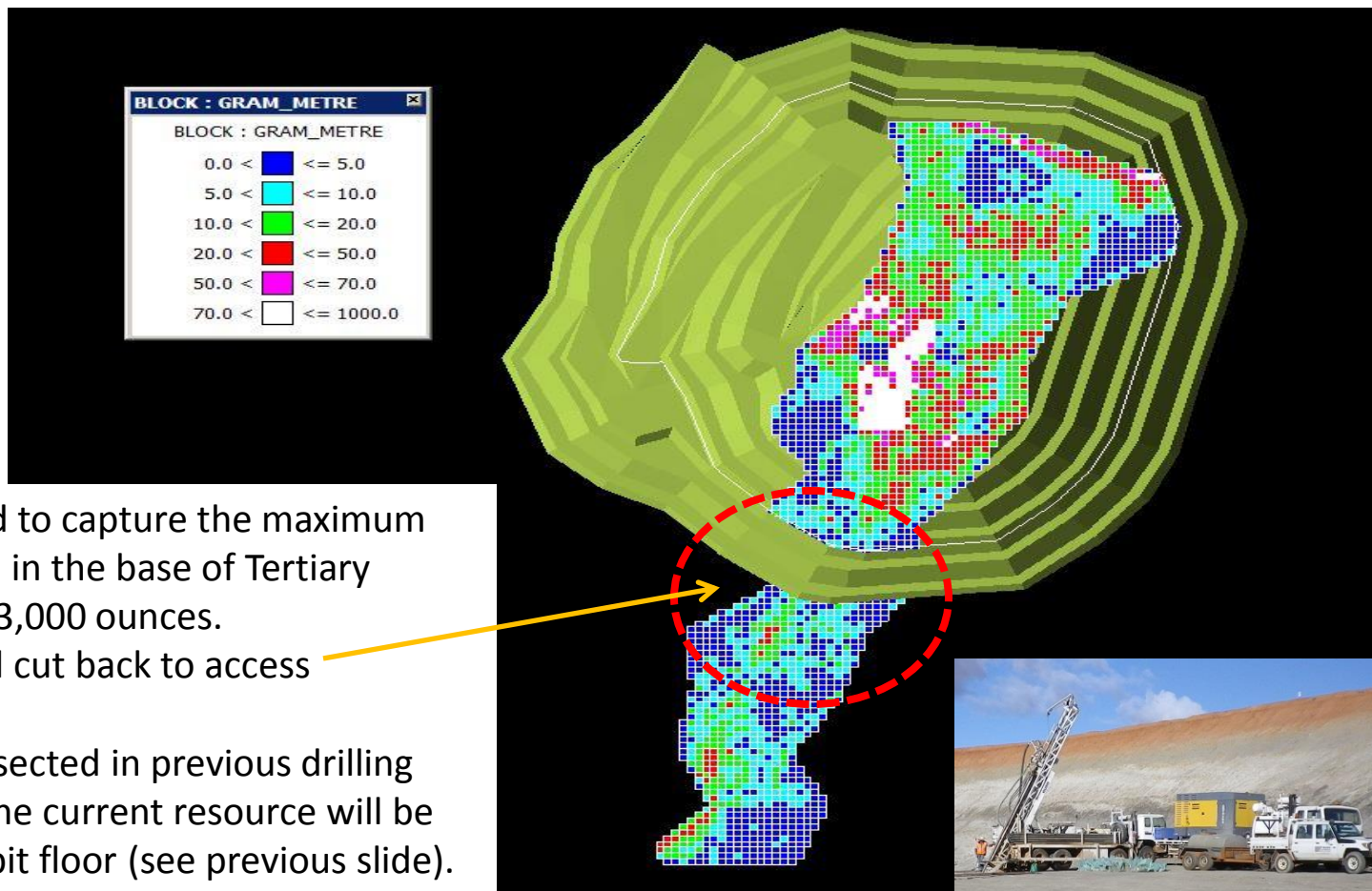


# Portia - High Grade Gold 75m Below Surface



Refer to ASX releases on <sup>1</sup>26/06/09 and <sup>2</sup>8/02/07

# Current Open Pit Design



- Open pit is optimised to capture the maximum ounces of gold (80%) in the base of Tertiary resource – approx. 53,000 ounces.
- Evaluating south wall cut back to access additional ore.
- Additional gold intersected in previous drilling but not included in the current resource will be accessible from the pit floor (see previous slide).

# High Grade Gold Layer Above Bedrock

Light grey clay – high grade gold ore 2m thick, commonly 5-30 g/t Au

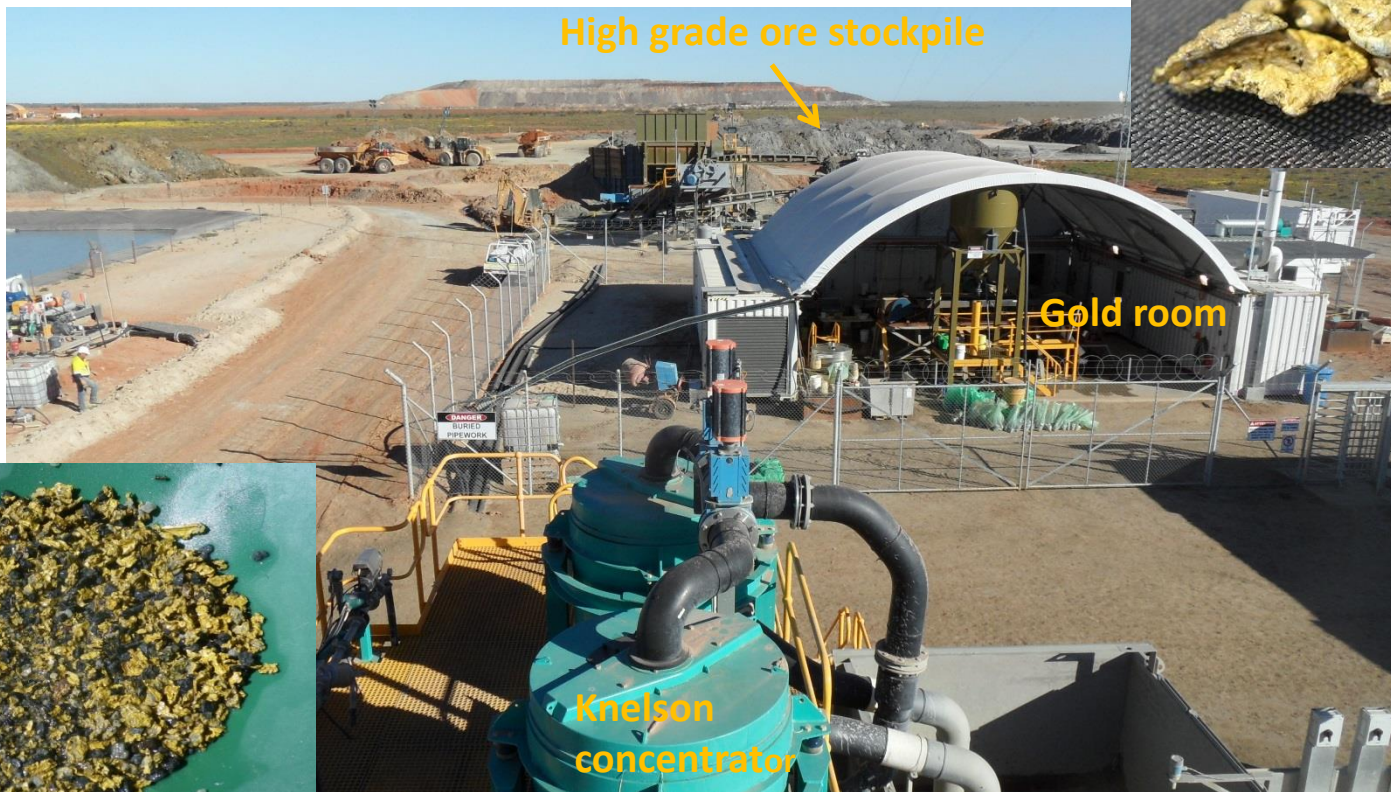


Light grey clay unconformable contact on weathered dipping graphitic pelite (bedrock)

Gold mineralisation in weathered bedrock to be explored by drilling from pit floor. Large target potential.

# Gravity Gold Processing Plant

## RECOVERY OF FREE GOLD



# 1,300 oz (approx. \$2.1m) Gold Pour This Week



Four gold bars produced this week

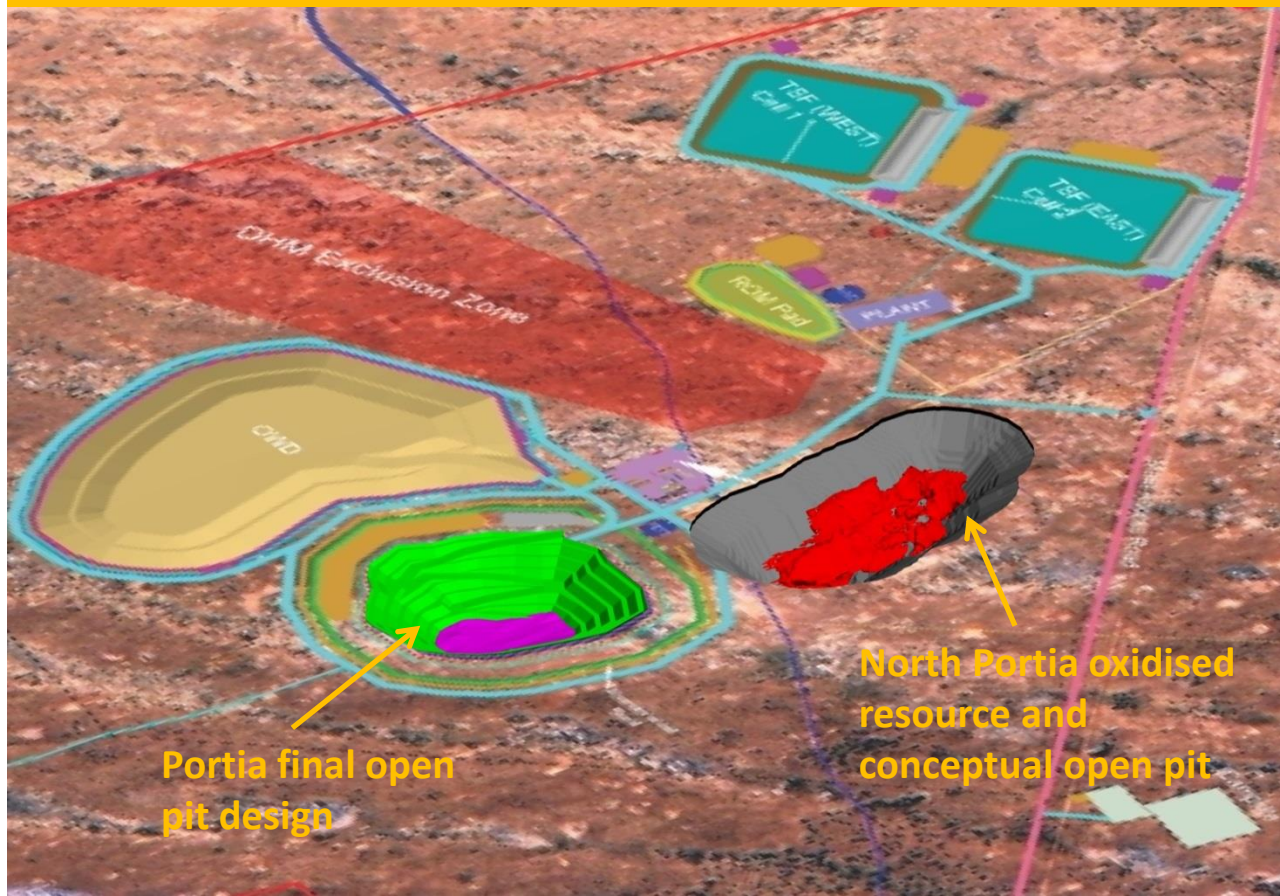
- > 3,000 oz gold in bullion and concentrates produced to date, some 2 months ahead of schedule.
- Gold plant operating 24 hours per day and recovering gold in accordance with design.
- First 10,000 tonnes of higher grade ore processed and gold recovered accords with resource model.
- **Expected cash flow over next six months from planned recovery of 55,000 oz gold in current JORC resource will be transformational for Havilah<sup>1</sup>.**

<sup>1</sup> Refer to ASX release 18/02/15

# What Is Next After Portia ?

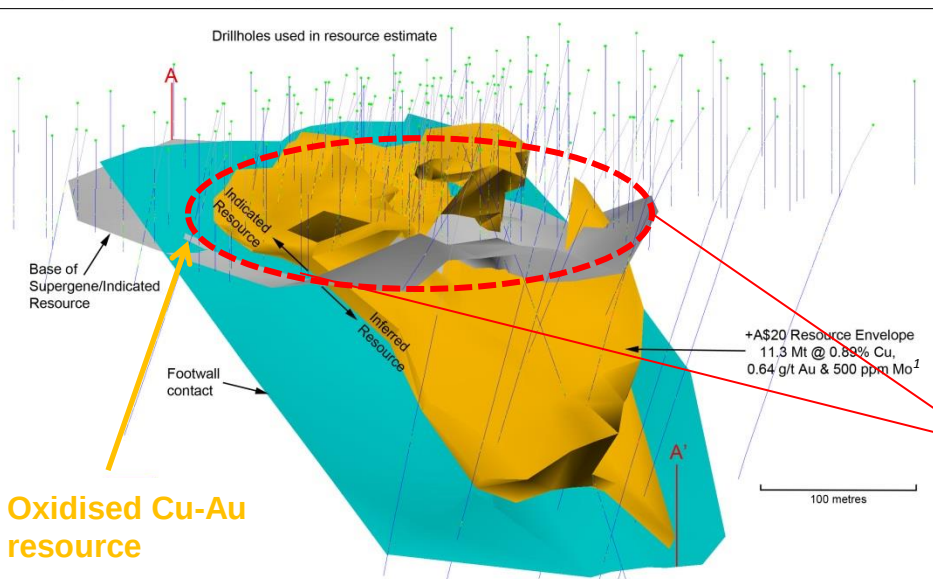
## NORTH PORTIA

- 500m north of Portia on same mining lease.
- Mining target of 3-4 Mt of oxidised Cu-Au ore at better than 1% Cu equivalent grade.
- Upper part of a sulphide copper resource containing 235,000 ounces gold and 100,000 tonnes copper<sup>1</sup>.
- Mining could continue on after Portia, subject to the results of technical and economic studies currently in progress.



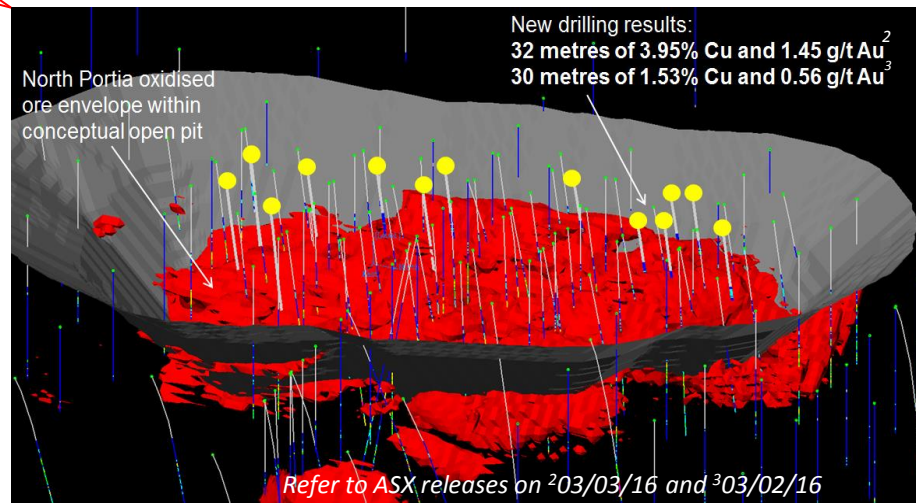
<sup>1</sup>Refer to ASX release 24/11/10 and table at end of this presentation.

# North Portia Copper-Gold Project



## POSITIVES FOR DEVELOPMENT

- Lies within an existing mining lease (ML).
- Best ever copper-gold intersections in recent drilling.
- Cu and Au recovery via minimal grinding of soft ore and conventional flotation.
- Utilize existing Portia infrastructure synergies.



## KEY TASKS OUTSTANDING

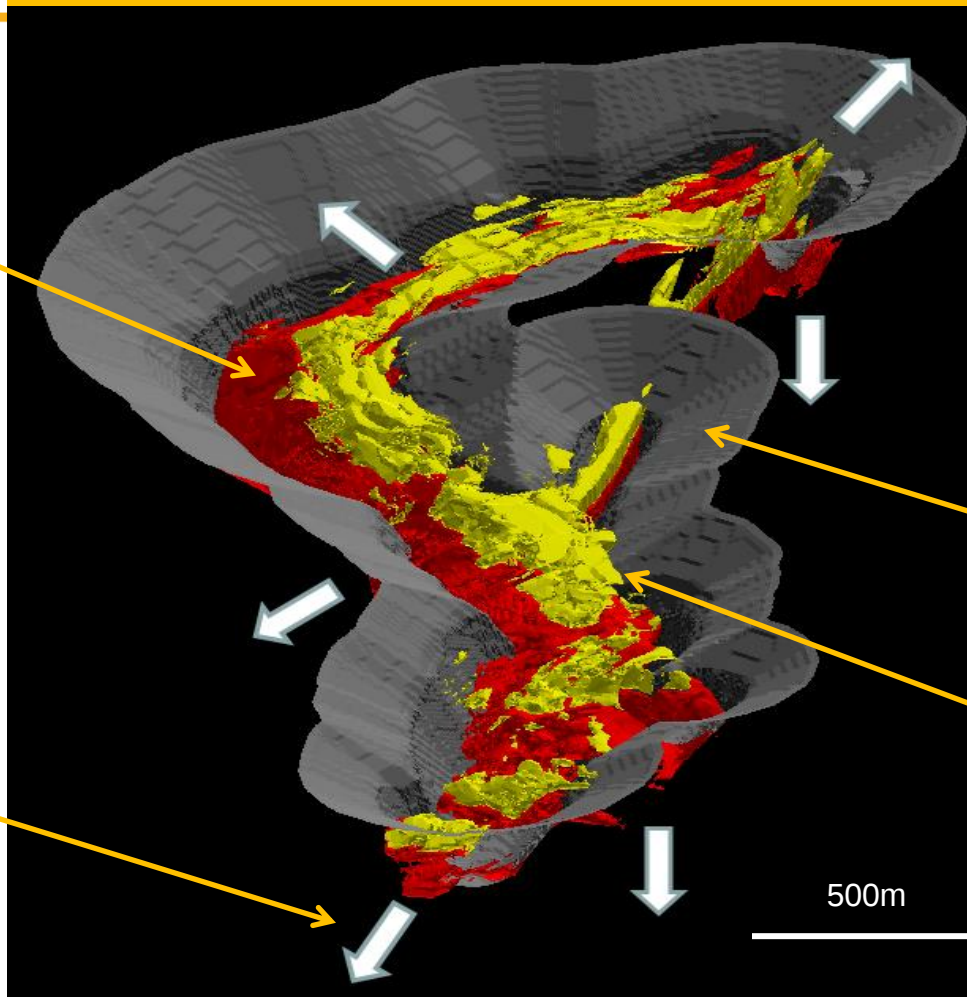
- Finalisation of current resource drilling.
- Updated resource estimate and mining plan.
- Completion of metallurgy and processing flow sheet.
- Permitting and environmental documentation.

<sup>1</sup>Refer to ASX release 24/11/10 and table at end of this presentation

# Kalkaroo Copper-Gold Project

**Copper-gold deposit**  
622,000 tonnes Cu &  
1.6 million ounces Au  
contained within  
124.5Mt @ 0.50%Cu,  
0.39g/t Au Measured  
and Indicated JORC  
resource<sup>1</sup>

Orebody open in  
directions shown by the  
arrows



**Kalkaroo is one of the  
largest undeveloped  
copper-gold deposits  
in Australia  
containing 622,000  
tonnes Cu and  
2,000,000 ounces Au<sup>1</sup>**

Optimised open  
pit design

**Gold cap deposit**  
445,000 ounces Au  
contained within 18.7mt  
@ 0.74g/t Au<sup>1</sup>

<sup>1</sup>Refer to ASX release 2/03/15 and  
resource table at end of presentation

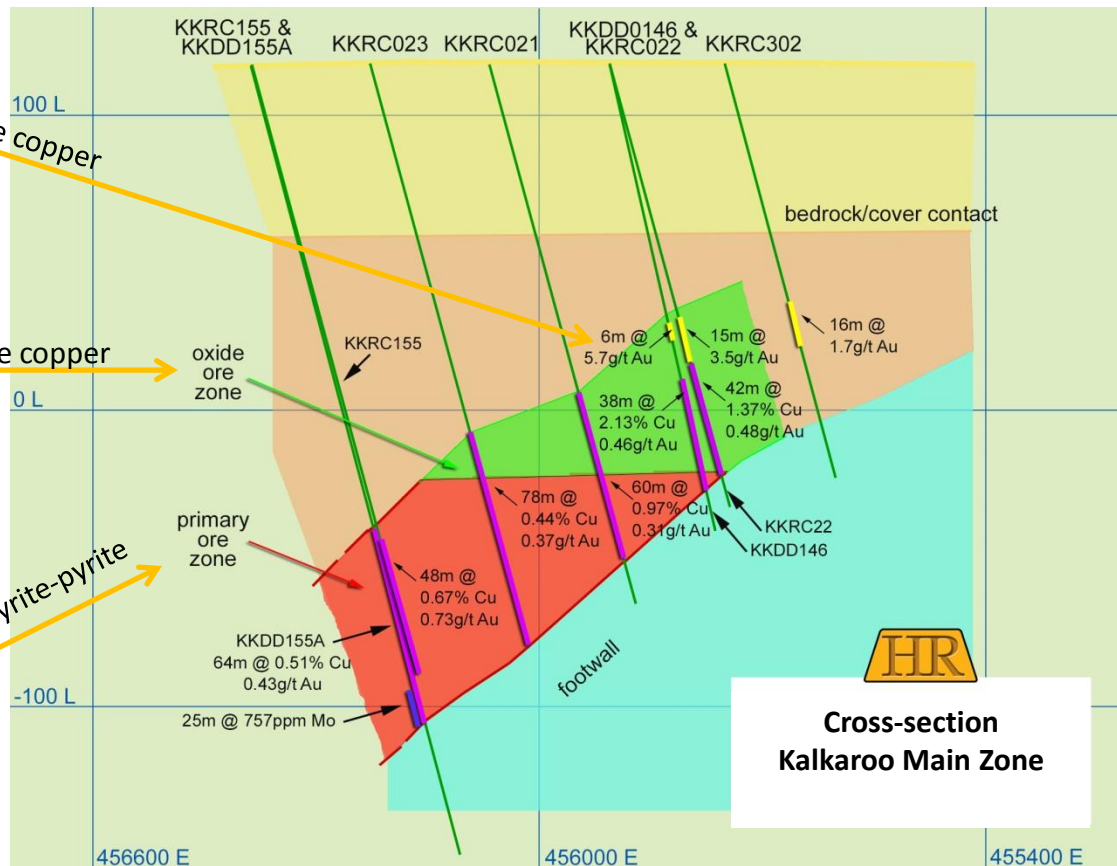
# Kalkaroo Oxidised And Primary Ore



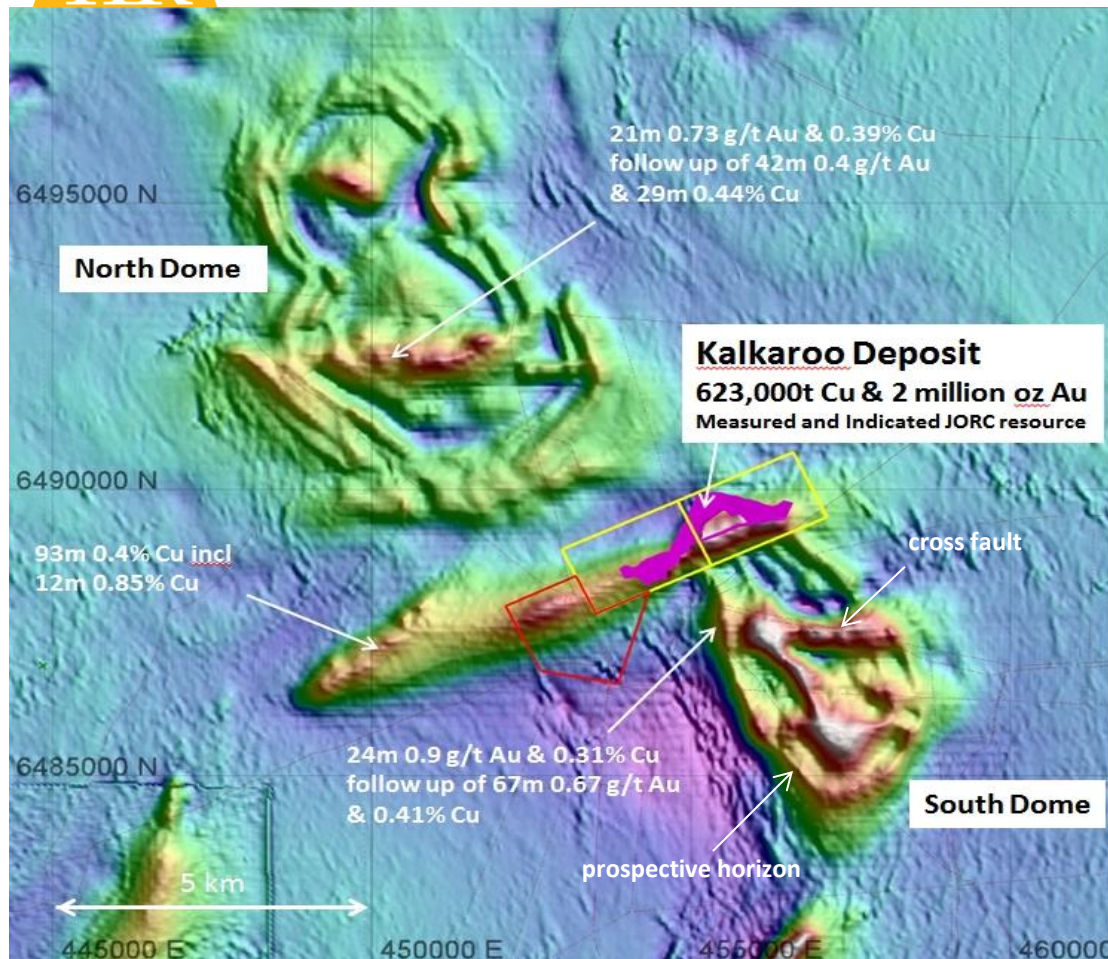
free gold and native copper

native copper

chalcopyrite-pyrite



# Vicinity Of Kalkaroo Is Highly Prospective



- Aeromagnetics highlights a distinctive mineralised horizon that defines the North and South domes plus associated cross faults.
- Three separate **new discoveries** were made by limited wild cat drilling of conceptual targets and geochemical anomalies.
- **More Kalkaroo replacement style deposits are likely to be discovered.**

# Kalkaroo - Aiming for 2017 Mining Decision

- Permitting, processing flow sheet and funding are critical path tasks.
- HAV owns Kalkaroo Station – land access secured.
- Ample flat land for mining infrastructure.

**550km<sup>2</sup> Kalkaroo Station owned by Havilah**



**West Kalkaroo starter open pit location**



# Kalkaroo Processing Facility Will Unlock Value

- Multi-purpose processing plant at Kalkaroo will be able to process ore from multiple projects.
- Improves development prospects and unlocks value in several nearby Copper-Gold-Cobalt projects.



## Kalkaroo

622,000 t Cu  
2m ounces Au

## Portia + North Portia

101,000 t Cu  
235,000 oz Au

## Kalkaroo

Central Processing Facility

## New Discoveries:

Eurinilla, Wilkins, Crozier's and others

## Mutooroo

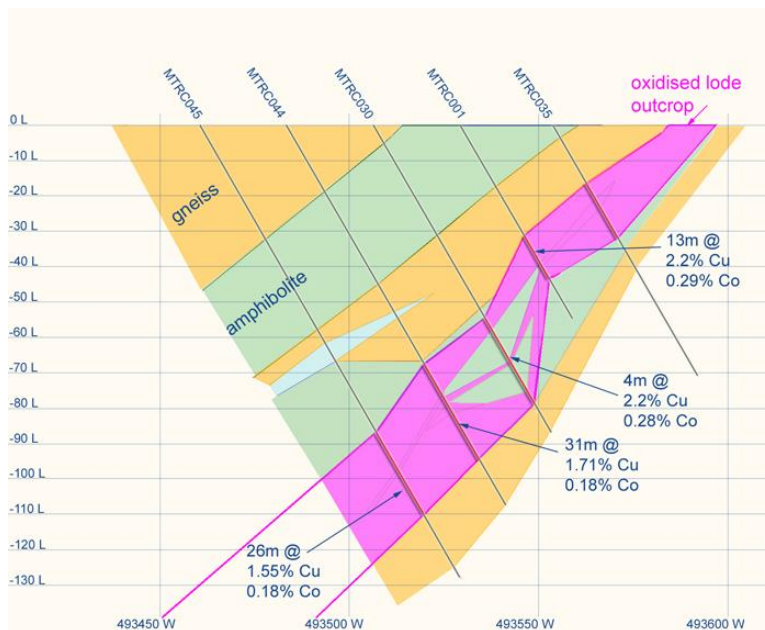
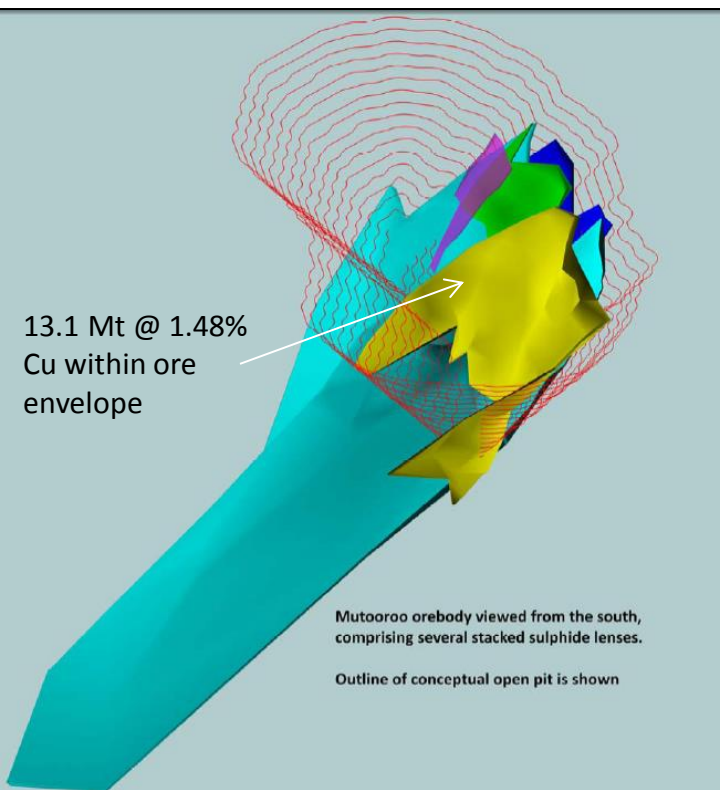
192Kt tonnes Cu  
17.5m kg Co

*Refer to table at end of presentation for relevant JORC resources on which these numbers are based.*

# Mutooroo – A Significant Cobalt Resource

**Watch this page!**

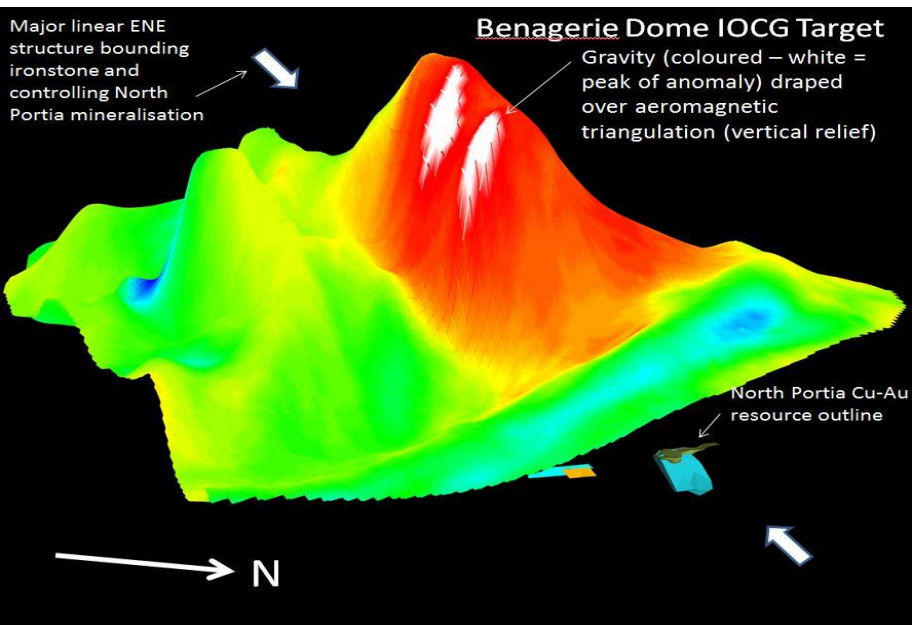
- Cobalt's day is next in the lithium battery story.
- Leaching tests are being conducted.
- Aim to pursue a mining lease application.



Mutooroo Cross-section

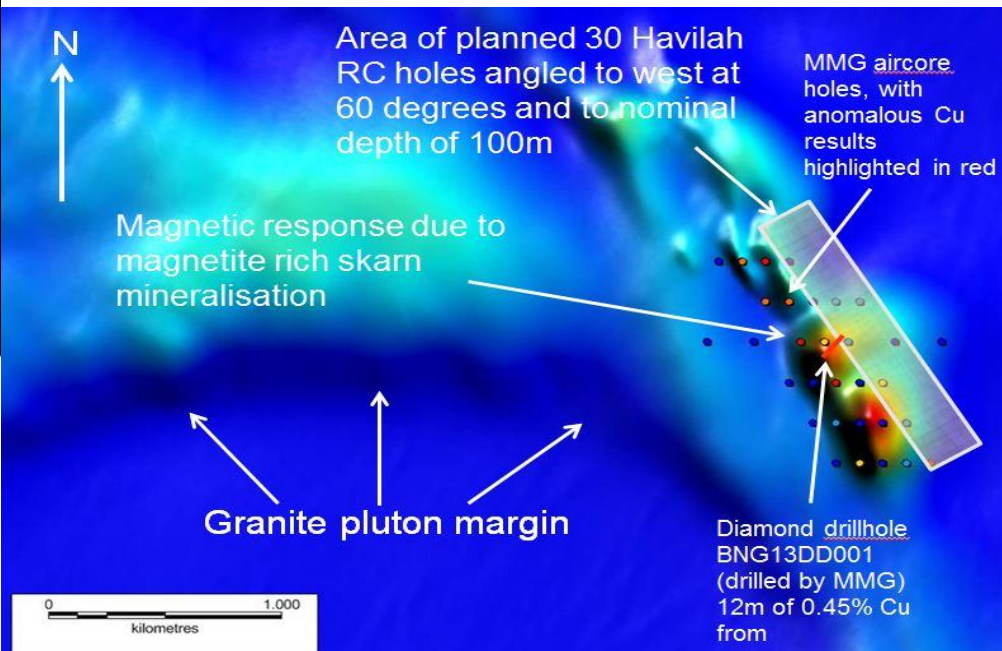


# Planned Near Term Exploration Targets



**Benagerie Dome IOCG target** – coincident gravity/magnetic anomaly plus Cu, Au and Mo geochemistry. Only 1km from Portia and a possible metal source.

**Crozier's copper skarn target** – 1km untested strike length either side of an earlier ore grade Cu intercept.



# What A Havilah Share Buys

## GOLD CASH FLOW AND APPRECIABLE UPSIDE

- A stake in an operating gold mine with positive cash flow in mining friendly South Australia at a time of record \$A gold prices.
- A share of 900,000 tonnes of copper and 2.4 million ounces gold in JORC resources<sup>1</sup> that will support new copper-gold mine developments by a team who have successfully brought a new mine into production.
- The expertise of a proven mine finding exploration team, who plan to drill some outstanding new targets in 2016 in a world class mineralised terrain (host to Broken Hill).
- Exposure to a wide range of commodities in an up-trending resource cycle – gold, copper, cobalt, tin, iron ore, uranium, molybdenum.

<sup>1</sup> refer to table at the end of this presentation





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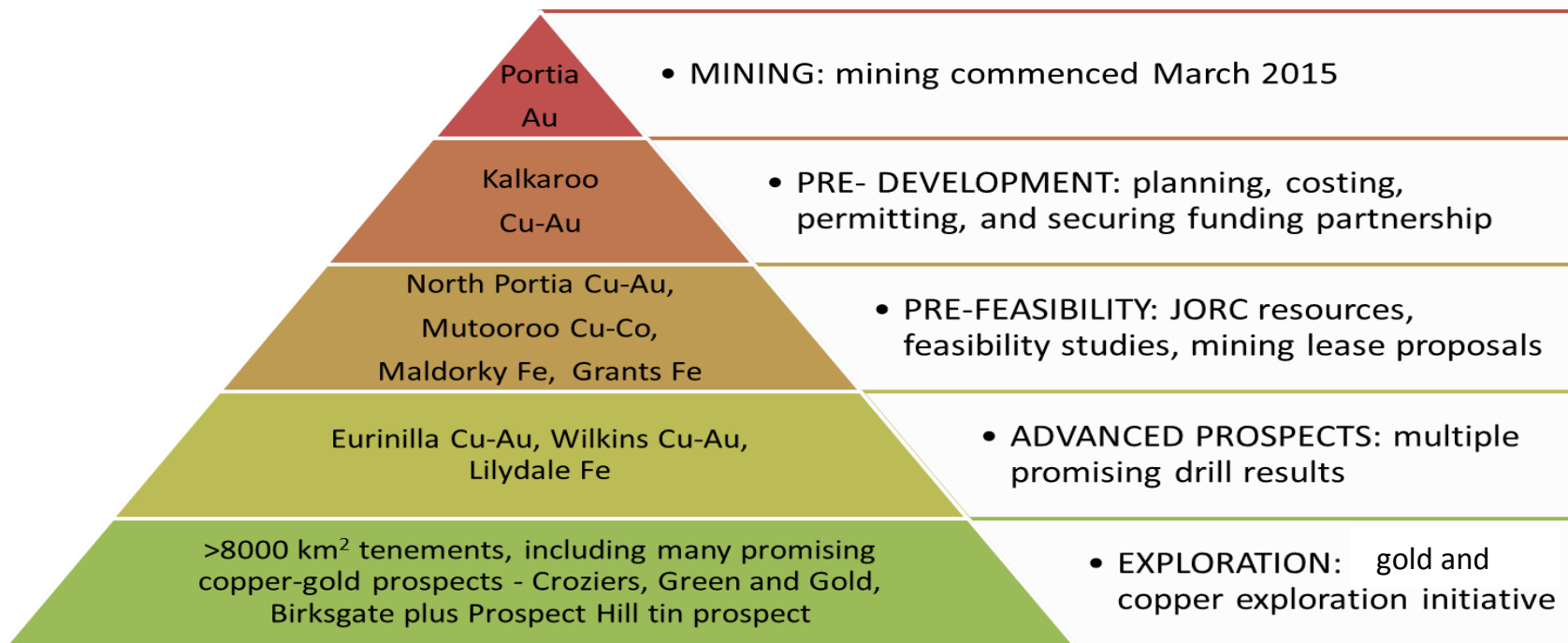


- Cash flow from gold sales
- New project developments
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**Contact Details :** Havilah Resources Limited  
31 Flemington Street, Glenside, South Australia 5065  
[www.havilah-resources.com.au](http://www.havilah-resources.com.au)

# Sustaining The Development Model

## A STRONG PROJECT DEVELOPMENT PIPELINE



# Copper-Gold Resource Metal Inventory

Copper: **915,500 tonnes** (Kalkaroo + Mutooroo + North Portia)

Gold: **2,400,000 ozs** (Kalkaroo + Mutooroo + Portia + North Portia)

Cobalt: **17.5 M Kg** (Mutooroo)

| Project*                  | Resource Category             | Tonnes      | Copper (%) | Gold (g/t) | Molybdenum (ppm) | Cobalt (%) | Contained Copper (tonnes) | Contained Gold (ounces) | Contained Moly (kg) | Contained Cobalt (kg) |
|---------------------------|-------------------------------|-------------|------------|------------|------------------|------------|---------------------------|-------------------------|---------------------|-----------------------|
| Kalkaroo <sup>1</sup>     | Gold Cap Measured             | 18,690,000  |            | 0.74       |                  |            |                           | 445,000                 |                     |                       |
|                           | CuAu Measured                 | 85,890,000  | 0.52       | 0.41       |                  |            | 622,500                   | 1,561,000               |                     |                       |
|                           | CuAu Indicated                | 38,620,000  | 0.45       | 0.33       |                  |            | Added to above            | Added to above          |                     |                       |
|                           | Mo Inferred                   | 4,500,000   |            |            | 615              |            |                           |                         | 2,768,000           |                       |
| Portia <sup>4</sup>       | Inferred                      | 720,000     |            | 2.9        |                  |            |                           | 67,000                  |                     |                       |
| North Portia <sup>3</sup> | Indicated (supergene)         | 2,750,000   | 1.0        | 0.65       | 451              |            | 101,000                   | 234,500                 | 5,680,000           |                       |
|                           | Inferred (sulphide)           | 8,610,000   | 0.85       | 0.64       | 531              |            | Added to above            | Added to above          | Added to above      |                       |
|                           | Indicated (supergene only) Mo | 7,732,000   |            |            | 340              |            |                           |                         | Added to above      |                       |
| Mutooroo <sup>2</sup>     | Measured sulphide             | 4,149,000   | 1.23       | 0.18       |                  | 0.14       | 192,000                   | 92,700                  |                     | 17,540,000            |
|                           | Indicated sulphide            | 1,697,000   | 1.52       | 0.35       |                  | 0.14       | Added to above            | Added to above          |                     | Added to above        |
|                           | Inferred sulphide             | 6,683,000   | 1.71       | 0.21       |                  | 0.13       | Added to above            | Added to above          |                     | Added to above        |
|                           | Measured oxide                | 598,000     | 0.56       | 0.08       |                  | 0.04       |                           |                         |                     |                       |
| Total all projects        | All categories (rounded)      | 172,908,000 |            |            |                  |            | 915,500                   | 2,400,000               | 8,450,000           | 17,540,000            |

\* Based on JORC resources, details released to ASX on : 1. 29/2/12 2. 18/10/10 3. 23/10/10 4. 26/6/09

# Iron Ore Resource Inventory

Maldorky: 147,000,000 tonnes of 30.1% Fe

Grants: 304,000,000 tonnes of 24% Fe

Total: 159,000,000 tonnes of premium grade iron ore product

| Project*              | Resource Category | Tonnes (Mt) | Iron (%) | Iron tonnes | Est Yield |
|-----------------------|-------------------|-------------|----------|-------------|-----------|
| Maldorky <sup>1</sup> | Indicated         | 147,000,000 | 30.1%    | 59,000,000  | 40%       |
| Grants <sup>2</sup>   | Inferred          | 304,000,000 | 24%      | 100,000,000 | 33%       |
| Total all projects    | All categories    | 451,000,000 |          | 159,000,000 |           |

\* Based on JORC resources, details released to ASX on : 1. 10/6/11 2. 5/12/12 , applying an 18% cut-off in both cases