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# **BROCKMAN**

## **BROCKMAN MINING LIMITED**

**布萊克萬礦業有限公司\***

*(incorporated in Bermuda with limited liability)*

**(SEHK Stock Code: 159)**

**(ASX Stock Code: BCK)**

## **EXPLORATION UPDATE**

The Company is pleased to announce that Brockman Australia has completed the consolidation of exploration tenements of its Ophthalmia Iron Ore Project. These tenements contain extensions of mineralisation already identified on Brockman's tenements, providing potential synergies for the future development of these deposits. Drilling is expected to commence in the September 2013 quarter following completion of requisite heritage surveys.

The Company is also pleased to report an initial Inferred Mineral Resource of 18.3 Mt at 56.5% Fe has been estimated for the CID mineralisation at the Duck Creek project in the West Pilbara. The resource estimate is confined to mineralisation within E47/1725.

### **OPHTHALMIA IRON ORE PROJECT**

#### **Consolidation of additional Ophthalmia tenements completed**

The Company is pleased to provide an update exploration activities planned at the Ophthalmia Iron Ore Project following the obtaining of two exploration licences (E47/2280, E47/2291) and one priority application (E47/2594), located within its Ophthalmia Iron Ore Project (Ophthalmia) near Newman in Western Australia (Figure 1).

This has enabled the Group to commence exploration on these tenements within the highly prospective expanded Coondiner area, where exploration to date has identified Indicated and Inferred Mineral Resources totalling 128.9 Mt grading 58.3% Fe, hosted in the Boolgeeda Iron Formation.

The greater Ophthalmia Project area contains total Mineral Resources of 290 Mt grading 59.1% Fe as detailed in Table 1 below.

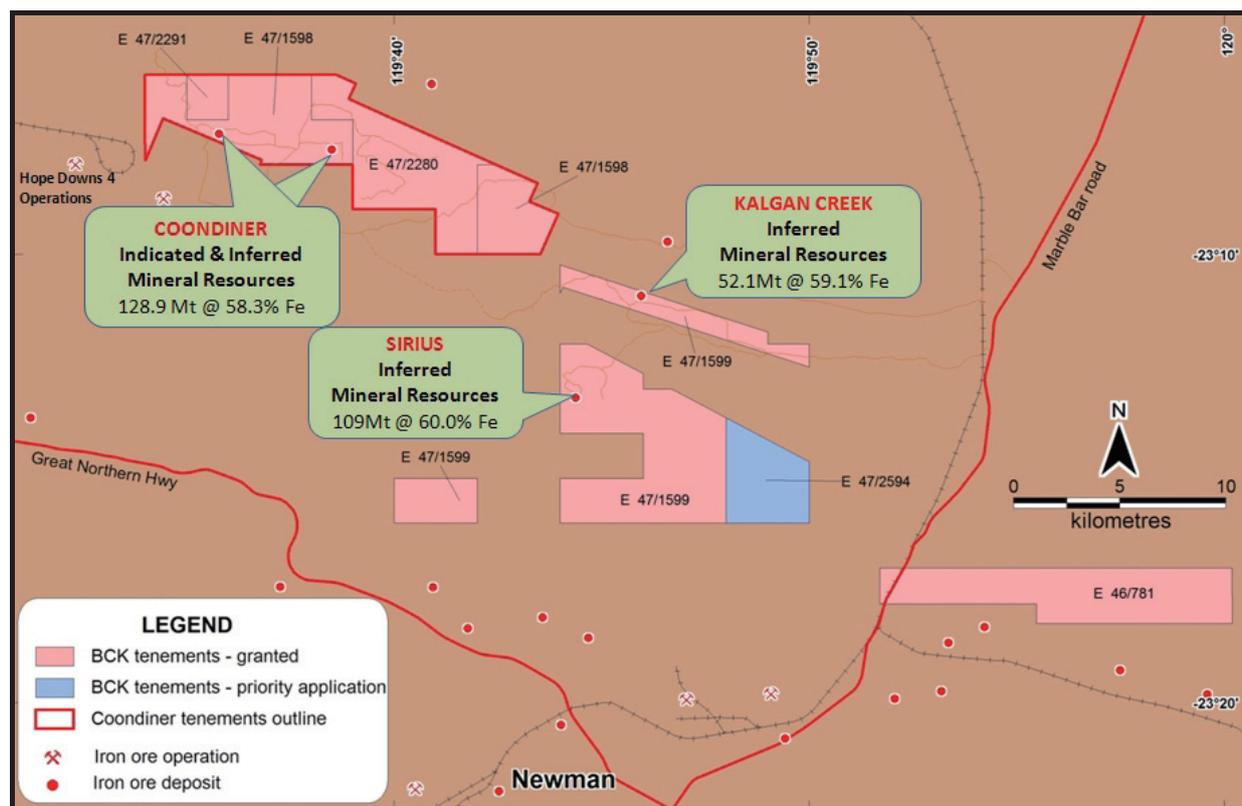


Figure 1: Location of Ophthalmia Iron Ore tenements

Table 1: Ophthalmia Mineral Resource (DSO) Summary

| Deposit                         | Class            | Tonnes (Mt)  | Fe (%)       | CaFe* (%)    | SiO <sub>2</sub> (%) | Al <sub>2</sub> O <sub>3</sub> (%) | S (%)        | P (%)       | LOI (%)     |
|---------------------------------|------------------|--------------|--------------|--------------|----------------------|------------------------------------|--------------|-------------|-------------|
| Kalgan Creek                    | Indicated        | 12.5         | 59.25        | 62.64        | 4.02                 | 4.79                               | 0.007        | 0.20        | 5.41        |
|                                 | Inferred         | 39.6         | 59.07        | 62.55        | 4.53                 | 4.55                               | 0.005        | 0.17        | 5.56        |
|                                 | <b>Sub Total</b> | <b>52.1</b>  | <b>59.11</b> | <b>62.56</b> | <b>4.41</b>          | <b>4.60</b>                        | <b>0.006</b> | <b>0.18</b> | <b>5.52</b> |
| Coondiner (Pallas and Castor)   | Indicated        | 82.5         | 58.10        | 61.65        | 5.61                 | 4.48                               | 0.008        | 0.17        | 5.76        |
|                                 | Inferred         | 46.4         | 58.70        | 62.08        | 5.37                 | 4.40                               | 0.006        | 0.18        | 5.44        |
|                                 | <b>Sub Total</b> | <b>128.9</b> | <b>58.32</b> | <b>61.77</b> | <b>5.52</b>          | <b>4.45</b>                        | <b>0.008</b> | <b>0.17</b> | <b>5.64</b> |
| Sirius                          | Inferred         | 109.0        | 60.03        | 63.30        | 4.57                 | 3.78                               | 0.009        | 0.18        | 5.16        |
| <b>Total (DSO) – Ophthalmia</b> |                  | <b>290.0</b> | <b>59.10</b> | <b>62.50</b> | <b>4.97</b>          | <b>4.23</b>                        | <b>0.008</b> | <b>0.17</b> | <b>5.44</b> |

\* CaFe represents calcined Fe and is calculated by Brockman using the formula  $CaFe = Fe\% / ((100 - LOI) / 100)$

\*\* Tonnes may not add up due to rounding

## **Compilation of Coondiner exploration results shows significant resource potential**

Detailed compilation of all exploration drilling and sampling, relating to Bedded-Iron-Deposit (BID) style mineralisation, has been completed for the new tenements. The result is shown in Figure 2. The key area with potential for a significant increase in Mineral Resources at Coondiner is the Boolgeeda Iron Formation in Exploration Licence E47/2280, where an Exploration Target of 20–60 Mt grading 56–60% Fe has been identified by the previous tenement holder, Sheffield Resources Limited (Sheffield: ASX code SFX), based on limited drilling mainly at the Top Forge and Crucible prospects and their interpreted extensions to the east. This Exploration Target was reported to ASX by Sheffield on 1 December 2011. Sheffield, nor Brockman, has not yet reported Mineral Resources at the tenements and any discussion in relation to the potential tonnage and grade of Exploration Targets and Mineral Resources is conceptual in nature.

There has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource. Several of the targets identified are extensions of mineralisation already identified on Brockman's tenements, providing potential synergies for the future development of these deposits. There are also many other BID target areas shown in Figure 2 which can contribute to incremental increases in the overall Mineral Resource inventory at Coondiner.

The Group plans to immediately commence detailed surface mapping and sampling to complement the existing work by Sheffield, with drilling proposed to commence in the September quarter of this year, following requisite heritage surveys and approvals.

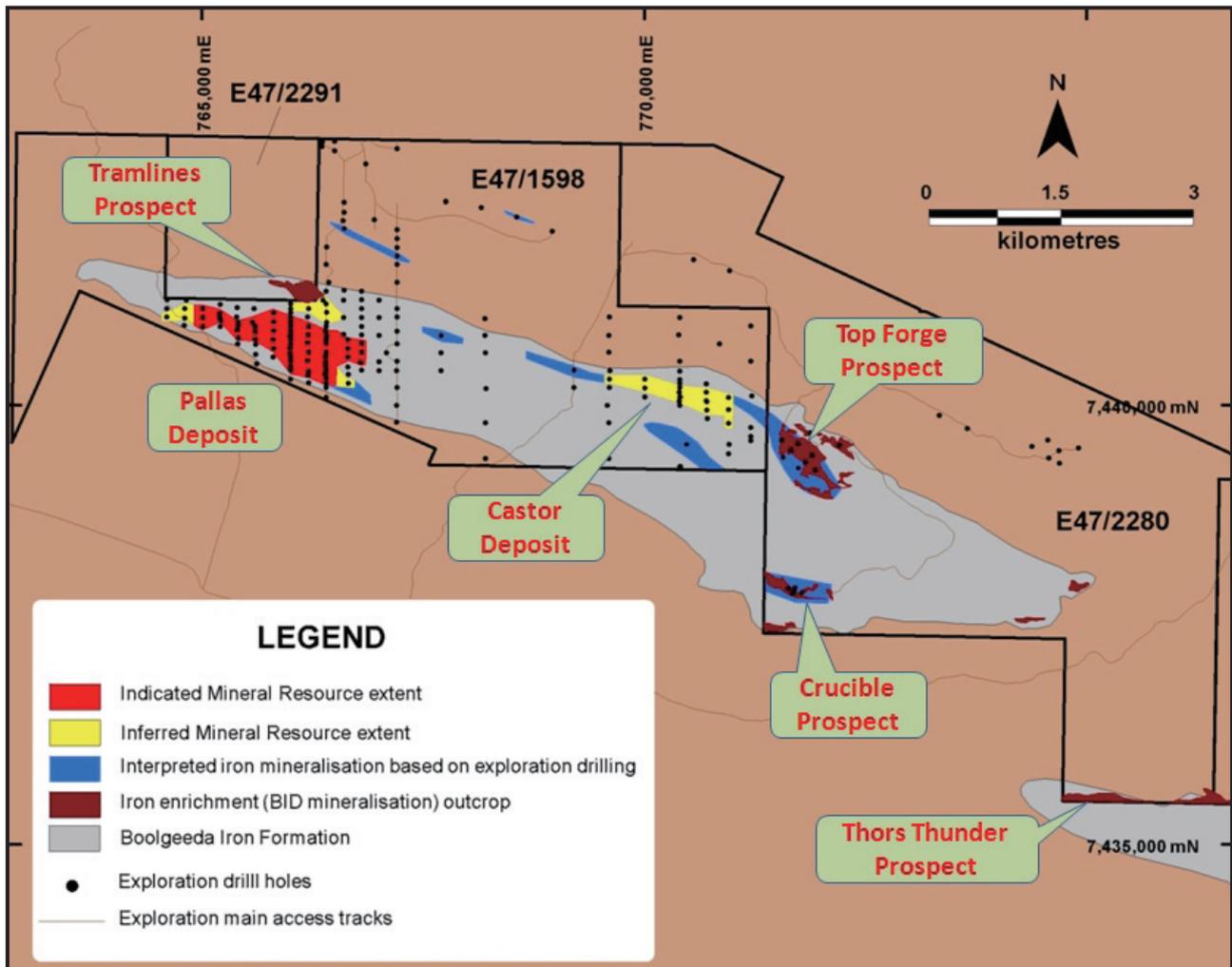


Figure 2: Location of iron ore deposits and prospects within Coondiner tenements

## WEST PILBARA IRON ORE PROJECT

### Duck Creek CID Mineral Resource Estimate

The Company is also pleased to advise that it has completed a maiden Inferred Mineral Resource estimate of 18.3 Mt grading 56.5% Fe, for the channel iron deposit (CID) mineralisation at Duck Creek (E47/1725), within the Company's West Pilbara Project area. The Mineral Resource estimate for Duck Creek has been classified in accordance with guidelines provided in the Australasian Code for Reporting of Identified Mineral Resources and Ore Reserves (JORC, 2004).

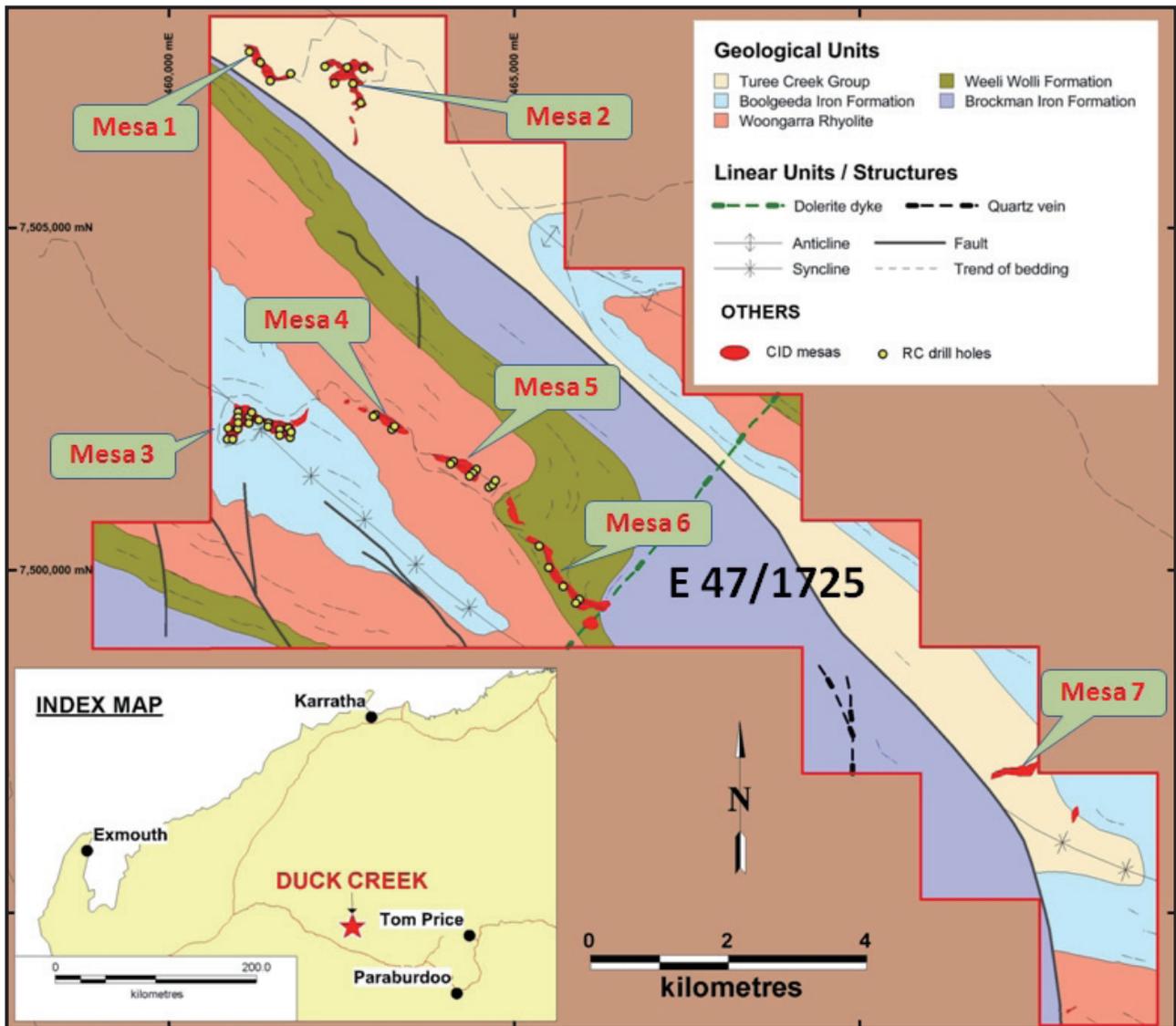
The methodology and procedures used for the Mineral Resource estimate are provided in Appendix 1 (attached) and the estimate is summarised in Table 2 below. Mineralisation contains low phosphorous (P) and moderate alumina ( $Al_2O_3$ ), similar to other West Pilbara CID resources reported by other companies.

**Table 2: Duck Creek Mineral Resource estimate – (at a lower cut-off grade of 54% Fe)**

| Mesa       | Classification  | Tonnes (Mt) | Fe (%)      | CaFe* (%)   | SiO <sub>2</sub> (%) | Al <sub>2</sub> O <sub>3</sub> (%) | P (%)        | S (%)        | LOI (%)     |
|------------|-----------------|-------------|-------------|-------------|----------------------|------------------------------------|--------------|--------------|-------------|
| 1          | Inferred        | 4.1         | 55.8        | 63.2        | 4.40                 | 2.69                               | 0.032        | 0.058        | 11.8        |
| 2          | Inferred        | 5.1         | 56.6        | 64.1        | 3.58                 | 2.44                               | 0.041        | 0.037        | 11.7        |
| 3          | Inferred        | 2.3         | 56.4        | 61.6        | 5.71                 | 4.53                               | 0.065        | 0.023        | 8.4         |
| 4          | Inferred        | 1.4         | 56.4        | 61.9        | 6.43                 | 3.34                               | 0.077        | 0.087        | 8.9         |
| 5          | Inferred        | 3.0         | 56.3        | 61.4        | 6.32                 | 4.07                               | 0.071        | 0.020        | 8.4         |
| 6          | Inferred        | 2.4         | 58.0        | 62.8        | 5.15                 | 3.25                               | 0.112        | 0.015        | 7.6         |
| <b>All</b> | <b>Inferred</b> | <b>18.3</b> | <b>56.5</b> | <b>62.8</b> | <b>4.91</b>          | <b>3.22</b>                        | <b>0.060</b> | <b>0.037</b> | <b>10.0</b> |

\* *CaFe represents calcined Fe and is calculated by Brockman using the formula  $CaFe = Fe\% / ((100 - LOI) / 100)$*

The Duck Creek Deposit is located approximately 130 kilometres northwest of Paraburdoo in the West Pilbara region of Western Australia. The licence covers an area of 26 graticular blocks and is owned 100% by Brockman. CID mineralisation at Duck Creek forms sub-horizontal bodies contained within discrete remnant mesas. The Mineral Resource estimate is based on the results of 45 vertical RC holes drilled on sections varying from approximately 200 to 400 m apart along the long axis of each mesa (as shown in Figure 3), supported by surface sampling to confirm the lateral extent of mineralisation. CID mineralisation has been identified on seven mesas within the project area, but only six have been drilled due to access difficulties with one mesa.



**Figure 3: Drill hole locations and CID mesas at Duck Creek**

By order of the board of directors of  
**Brockman Mining Limited**  
**Chan Kam Kwan, Jason**  
*Company Secretary*

Hong Kong, 14 May 2013

*As at the date of this announcement, the board of directors of the Company comprises Mr. Kwai Sze Hoi (Chairman), Mr. Liu Zhengui (Vice Chairman), Mr. Warren Talbot Beckwith and Mr. Ross Stewart Norgard as non-executive directors; Mr. Luk Kin Peter Joseph (Chief Executive Officer) and Mr. Chan Kam Kwan, Jason (Company Secretary) as executive directors; and Mr. Lau Kwok Kuen, Eddie, Mr. Uwe Henke Von Parpart, Mr. Yip Kwok Cheung, Danny and Mr. David Michael Spratt as independent non-executive directors.*

## DEFINITIONS

|                         |                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------|
| ASX                     | ASX Limited (trading as the Australian Securities Exchange)                                      |
| Brockman or the Company | Brockman Mining Limited, a company listed on the ASX and the Stock Exchange of Hong Kong Limited |
| Brockman Australia      | Brockman Mining Australia Pty Limited, a wholly-owned subsidiary of the Company                  |
| CID                     | channel iron deposit                                                                             |
| Group                   | Brockman Mining Limited and/or its subsidiaries                                                  |
| km                      | kilometres                                                                                       |
| m                       | metres                                                                                           |
| Mt                      | Million tonnes                                                                                   |
| Mtpa                    | Million tonnes per annum                                                                         |

## FURTHER INFORMATION

|                        |                                                    |                        |
|------------------------|----------------------------------------------------|------------------------|
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| <b>Michelle Manook</b> | <b>GM External Affairs, Brockman Australia</b>     | <b>+61 8 9389 3042</b> |

### Competent Person's Statement

The information in this report that relates to Mineral Resources at Ophthalmia is based on information compiled by Mr J Farrell and Mr A Zhang.

The information in this report that relates to Mineral Resources at Duck Creek is based on information compiled by Mr A Zhang.

Mr J Farrell, who is a Chartered Professional and Member of the Australasian Institute of Mining and Metallurgy and a full-time employee of Golder Associates Pty Ltd, produced the Mineral Resource estimates based on the data and geological interpretations provided by Brockman. Mr Farrell has sufficient experience that is relevant to the style of mineralisation, type of deposit under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2004 edition of the 'Australasian Code for Reporting of Exploration, Results, Mineral Resource and Ore Reserves'. Mr Farrell consents to the inclusion in this report of the matters based on his information in the form and context that the information appears.

Mr A Zhang, who is a Member of the Australasian Institute of Mining and Metallurgy and a full-time employee of Brockman Mining Australia Pty Ltd, provided the geological interpretations and the drill hole data used for the Mineral Resource estimation of Ophthalmia project. He produced the Mineral Resource estimate for Duck Creek based on data and geological compilation by Brockman. Mr Zhang has sufficient experience that is relevant to the style of mineralisation, type of deposit under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2004 edition of the 'Australasian Code for Reporting of Exploration, Results, Mineral Resource and Ore Reserves'. Mr Zhang consents to the inclusion in this report of the matters based on his information in the form and context that the information appears.

## MEMORANDUM

**TO** Colin Paterson  
**FROM** Aning Zhang  
**DATE** 13 May 2013  
**SUBJECT** Duck Creek Mineral Resource estimate

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## INTRODUCTION

The Mineral Resource estimation for the Duck Creek CID mesas has been completed based on all available geological and geochemical data for the CID mesas that have been drill-tested within Exploration Licence E47/1725. The resource estimate was classified in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2004).

## GEOLOGY

The iron mineralisation of the Duck Creek deposit is hosted in a series of CID mesas within the Exploration Licence. The mesas form two distinct geographical domains, the Northern Mesas (Mesa 1 and 2) and the Southern Mesas (Mesas 3 to 7). Individual mesas range from several hundred metres up to 1.5 km long, 50 m to 500 m wide, and 20 m to 40 m high from the base. Silicified 'hard-cap', up to 5 m thick, is present at the top of some of the mesas. Textures vary from near massive cemented pisolite to porous, vuggy varieties. Mineral compositions change from hematite-goethite dominated to goethite-limonite dominated. The CID mineralisation is underlain by mostly iron-poor conglomerate with abundant unsorted and angular chert and shale clasts. Two separate CID zones, an upper and a lower zone, separated by a 2 to 3 m thick silicified zone have been observed at some areas.

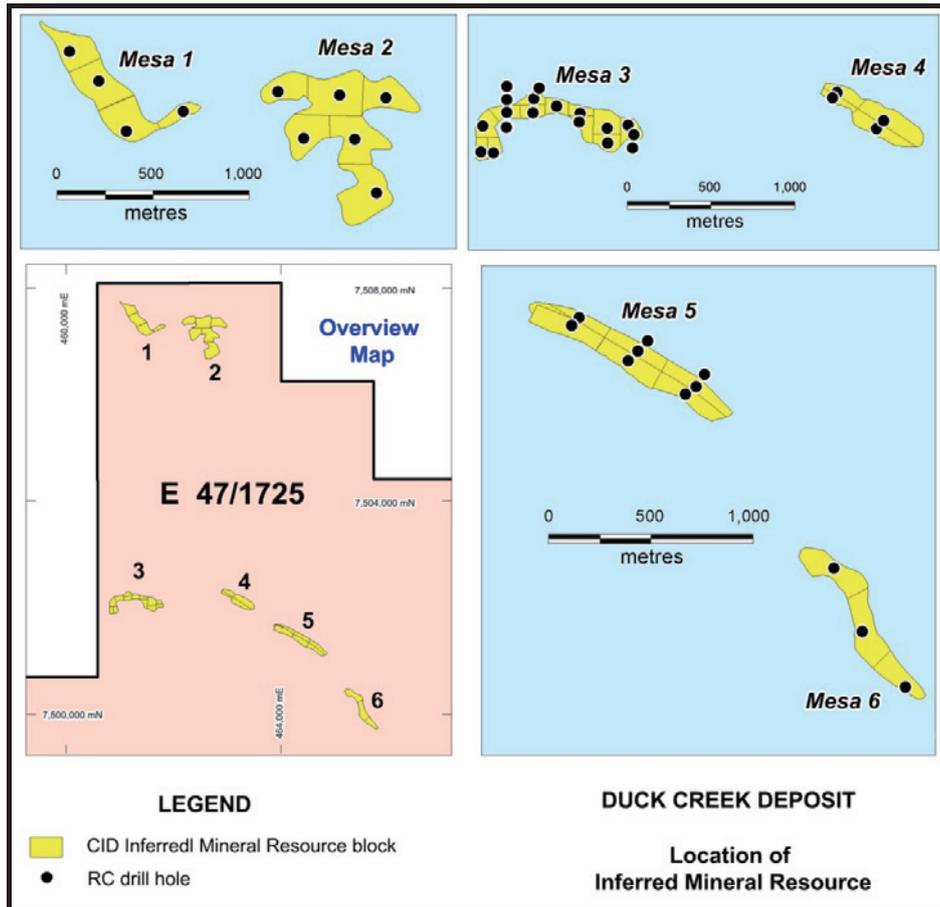
## ASSUMPTIONS AND METHODOLOGY

This Mineral Resource estimate for the Duck Creek deposit is based on a number of factors and assumptions:

- All of the available drilling data to date was used for the Mineral Resource estimate. This data was collected by Brockman in the 2010 exploration drilling campaign

- The collar positions were surveyed using differential global positioning system by an external surveying contractor, and are considered adequate for the purposes of this resource estimate
- Although no down-hole survey was conducted for all the RC holes, down-hole deviation is considered insignificant in affecting the estimation.
- The topography of the CID mesas is based on a Fugro digital terrain model (DEM) that has a vertical accuracy of less or equal to 1m, which is considered adequate for the purposes of this resource estimate
- The sampling programme was conducted in accordance to Brockman’s sampling quality assurance and quality control (QAQC) procedures. QAQC samples include field duplicates (one per hole) and company standards including blanks which were submitted at a rate of 1 in 25 of all assayed samples. Analysis of the QAQC data indicates that drill hole samples were prepared and analysed with acceptable quality for this Mineral Resource estimate
- As there is no bulk density data obtained from the RC drilling samples, an average value of 2.7 has been used as the dry bulk density for the estimation of the Mineral Resource at the Duck Creek deposit.
- Mineral Resources within each mesa have been estimated using a plan-view polygonal method. This method is considered appropriate for the estimation of Inferred Mineral Resources at this deposit based on the geological characteristics of the mineralisation. The CID mineralisation forms sub-horizontal bodies by nature, which is supported by field observation, and their extent has been defined by both drilling and field observation within the confines of each mesa.
- The estimation process involved the following procedure:
  - 1) CID ore blocks were interpreted on drill hole sections with a lower cut-off grade of 54% Fe. The lateral extent of each ore block (sectional polygon) was determined by drill holes as well as the topographical profile.
  - 2) CID ore blocks were then interpreted in plan view on a high resolution orthoimages base map with 2.5 m contours generated from the aforementioned DEM. Each ore block (plan-view polygon) was centred at the drill hole intersecting the CID mineralisation and its lateral extent matches that of the corresponding sectional polygon and follows the topographical contours.
- Step 1 above determines the thickness and average grade of each ore block and Step 2 determines the shape thus the area of each ore block.

- The location of all drill holes and Inferred Mineral Resource blocks are shown in the figure below:



## MINERAL RESOURCE STATEMENT

The resource estimate was classified in accordance with guidelines provided in the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2004). The classification was based principally on geological confidence criteria from available drilling data, surface rock chip samples and surface mapping together with the representativeness of sampling.

Table 1 below summarises the Mineral Resources for Duck Creek. The mineralisation polygons were delineated using a lower cut-off grade of 54% Fe.

**Table 1: In situ Mineral Resource Using a 54% Fe Cut-off Grade**

| Classification | Mt   | Fe % | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | P %  | S %   | LOI % |
|----------------|------|------|--------------------|----------------------------------|------|-------|-------|
| Inferred       | 18.3 | 56.5 | 4.91               | 3.22                             | 0.06 | 0.037 | 10.0  |

## COMPETENT PERSON'S STATEMENT

The information in this report that relates to Mineral Resources at Duck Creek is compiled by Mr A Zhang.

Mr A Zhang, who is a member of the Australasian Institute of Mining and Metallurgy and a full-time employee of Brockman Mining Australia Pty Ltd, produced the Mineral Resource estimate for Duck Creek based on data and geological compilation by Brockman. Mr Zhang has sufficient experience that is relevant to the style of mineralisation, type of deposit under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2004 edition of the 'Australasian Code for Reporting of Exploration, Results, Mineral Resource and Ore Reserves'. Mr Zhang consents to the inclusion in this report of the matters based on his information in the form and context that the information appears.



Aning Zhang  
**Exploration Manager**