



7 September 2011

**MUMBWA PROJECT:  
BUDGET INCREASE FOR PHASE 5 EXPLORATION PROGRAM**

**KEY POINTS**

- **The budget for Phase 5 exploration at Mumbwa has been increased by \$A1M to \$A6M allowing additional and deeper holes to be drilled**
- **Reprocessing of FALCON™ data with updated exploration data-set and 3D inversion modelling has defined a series of prospective targets**
- **The planned depth of Phase 5 drill hole P5-002 has been extended to 800 metres**
- **Two additional drill holes have been approved to test a newly identified target in the vicinity of the Mutoya anomaly**
- **Phase 5 now includes drilling 16 targets for approximately 8,900 metres**

Blackthorn Resources Limited (ASX: BTR) (“the Company”) is pleased to announce that the Mumbwa Project Phase 5 drilling program in Zambia has been expanded. The Company has approved an increase in the drilling budget to \$A6M to cover all aspects of an ambitious Phase 5 drilling campaign. The drilling program has now been extended to include core drilling 16 holes for approximately 8,900 metres.

Reprocessing of the FALCON™ data and inclusion of all new exploration information compiled from previous drilling phases has generated some new targets worthy of follow-up exploration. This work has identified new high priority targets in the Mutoya area situated about 6km from Kitumba. These targets were not previously tested by BHP Billiton.

In addition, the planned end-of-hole depths for existing targets at Kitumba were further refined. The planned target depth of hole P5-002 has been extended to 800 metres. The collar location and drilling angle has also been revised. Table 1 outlines the drill hole parameters for the 16 planned Phase 5 drill holes.

**TABLE 1 – Phase 5 planned drill hole parameters**

| #  | Target ID    | Planned Depth (m) | Planned Dip ° | Planned Azimuth ° | Planned UTM Easting (m) | Planned UTM Northing (m) | Planned RL (m) |
|----|--------------|-------------------|---------------|-------------------|-------------------------|--------------------------|----------------|
| 1  | P5_001       | 500               | -70           | 270               | 479,310                 | 8,373,955                | 1,440          |
| 2  | P5_002       | 800               | -90           | 000               | 479,240                 | 8,373,750                | 1,430          |
| 3  | P5_003       | 500               | -70           | 270               | 479,320                 | 8,374,160                | 1,439          |
| 4  | P5_005       | 500               | -70           | 270               | 479,380                 | 8,373,748                | 1,486          |
| 5  | P5_007       | 500               | -60           | 270               | 479,300                 | 8,373,440                | 1,500          |
| 6  | P5_008       | 500               | -60           | 270               | 479,420                 | 8,374,160                | 1,451          |
| 7  | P5_009       | 500               | -60           | 270               | 479,410                 | 8,373,955                | 1,463          |
| 8  | P5_010       | 500               | -80           | 090               | 478,940                 | 8,373,750                | 1,430          |
| 9  | P5_013       | 500               | -60           | 325               | 479,756                 | 8,375,172                | 1,410          |
| 10 | P5_014       | 500               | -60           | 325               | 479,947                 | 8,375,383                | 1,335          |
| 11 | KIT_01       | 600               | -70           | 330               | 479,250                 | 8,373,170                | 1,462          |
| 12 | KIT_02       | 600               | -70           | 160               | 478,783                 | 8,373,698                | 1,406          |
| 13 | KIT_03       | 500               | -60           | 325               | 479,035                 | 8,374,622                | 1,400          |
| 14 | KIT_04       | 400               | -70           | 270               | 478,687                 | 8,374,534                | 1,354          |
| 15 | Target A-01  | 800               | -70           | 270               | 474,394                 | 8,377,510                | 1,318          |
| 16 | Target A-02  | 700               | -70           | 045               | 474,731                 | 8,378,340                | 1,294          |
|    | <b>TOTAL</b> | <b>8,900</b>      |               |                   |                         |                          |                |

### Phase 5 – Program Status

The Phase 5 drilling program is currently underway and aims to further define the current JORC code compliant inferred mineral resource already estimated for Kitumba, and to test a newly identified target in the vicinity of the Mutoya anomaly. The location of 14 planned drill holes at Kitumba are illustrated in Figure 1, and the 2 additional holes are shown in Figure 2.

Two rigs are onsite drilling the first 2 cored holes of the Phase 5 program. Plans are being made to implement double shifting on both rigs in the near future. Consultants from the MSA Group are on site to manage site work and ensure standard exploration methodology is followed.

### Mutoya – New Target A

PGN Geoscience has reprocessed the FALCON™ data-set by incorporating all elements from previous exploration phases. A revised 3D inverted geophysical model was produced to plan the orientation of ‘infill’ and ‘step-out’ holes at Kitumba. The 3D modelling has identified additional high priority targets outside of the main Kitumba drilling area. This work included defining a high priority target in the Mutoya area, situated approximately 6km northwest from Kitumba. The target site has not been previously drill tested and the geophysical anomaly shows a highly ranked target.

Two new holes are proposed to drill test this target as part of the Phase 5 program. The drill plan and positioning of the drill targets are shown in Figure 2.



Managing Director, Mr Scott Lowe said

*In addition to further defining the JORC code compliant inferred resource at Kitumba, we are also optimistic about the potential for further exploration – perhaps even a Tier 1 discovery. Of course “scout” drilling is always speculative in nature, but there are positive indications of potential for mineralisation and we are eager to test these new zones.*

**Should you require further information please contact:**

**Scott Lowe**  
**Managing Director**  
**Ph: + 61 2 9357 9000**

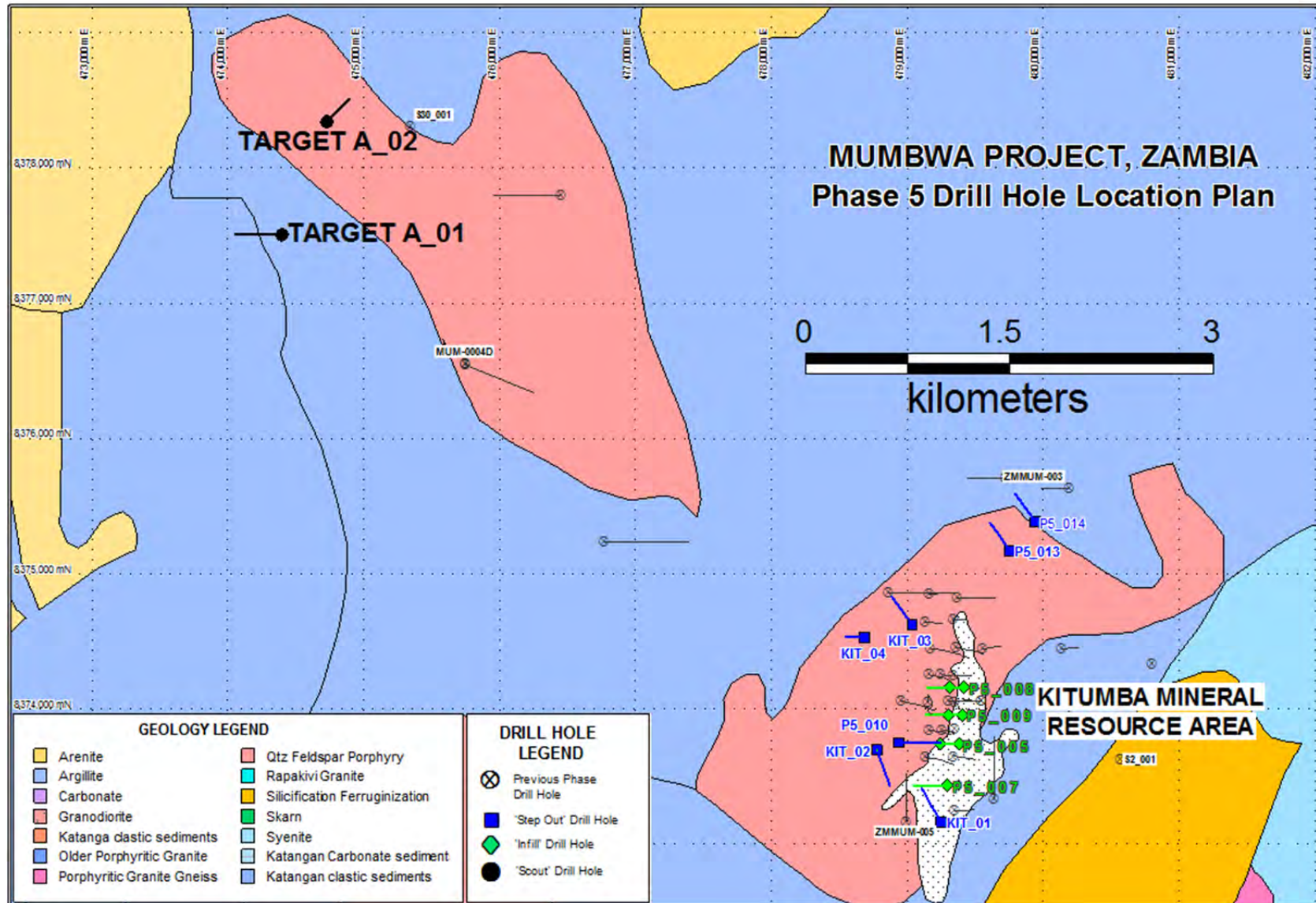
**ATTRIBUTION**

The information in this report which relates to Exploration Results at the Mumbwa Project in Zambia is based on information compiled by Mr Michael J Robertson, MSc, Pr.Sci.Nat., MSAIMM, who is a member of The South African Institute of Mining and Metallurgy. Mr Robertson has 22 years' experience in mineral exploration and is a full-time employee of The MSA Group. Mr Robertson 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 in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Robertson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.





**BLACKTHORN**  
RESOURCES



**FIGURE 2** – Drill hole location plan showing 2 new targets situated 6km NW from Kitumba Ends