

# **HAMPTON HILL MINING NL**

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## **Company Announcements Office**

Australian Stock Exchange  
PO Box H224, Australia Square  
Sydney 2000

Dear Sir/Madam

29 October 2004

## **QUARTERLY ACTIVITIES REPORT PERIOD ENDING 30 SEPTEMBER 2004**

### **HIGHLIGHTS**

**A VTEM airborne electromagnetic survey has commenced over the most prospective portion of the Wheatley joint venture with Teck Cominco and BHP Billiton. Drilling of airborne anomalies generated by a previous smaller survey in the project recently returned intersections including 4.1 metres assaying 2.2% zinc and 3.1 metres assaying 2.6% zinc.**

**200 Air core holes totalling 14,671 metres have been drilled on the Apollo Hill prospect during the quarter. Teck Cominco has commenced an additional 6,000 metre program.**

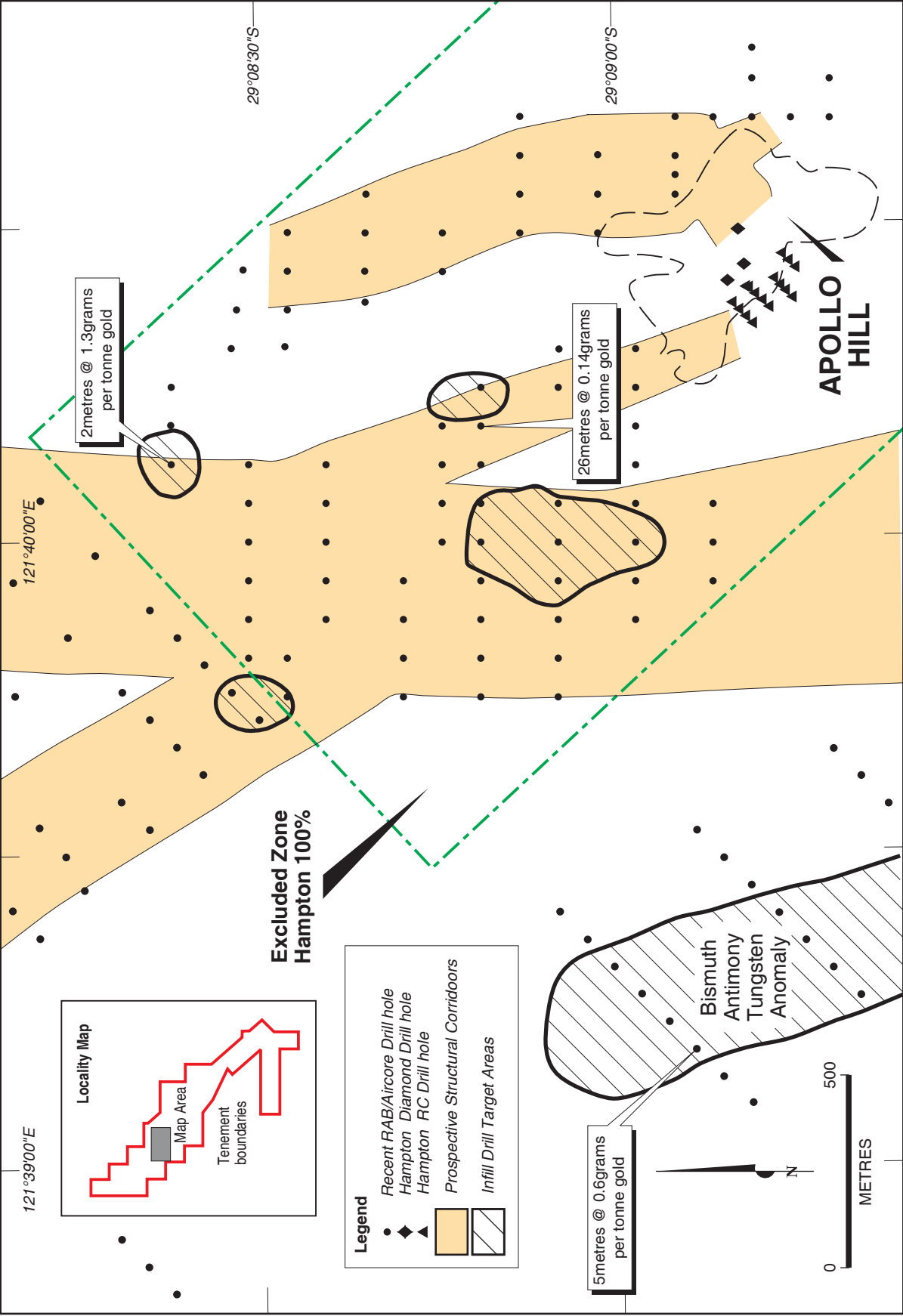
**A review of old drilling information from Griffin's Find and the reappraisal of geophysical data has revealed targets for gold mineralization below the old mine opencut and elsewhere on the project.**

### **Apollo Hill Project**

This project is situated approximately 40 kilometres south east of the township of Leonora and sits astride the Keith-Kilkenny structural lineament, which is considered a major focus for regional gold mineralization. Hampton is the 100% tenement holder and has full ownership of a 3.2 by 1.5 kilometre exclusion zone covering the central target zone at Apollo Hill whilst the outer areas of the project are in joint venture with Teck Cominco Limited of Canada (Teck Cominco) as manager earning a 60% interest.

Figure 1

APOLLO HILL PROJECT



During the quarter 200 Air core holes totalling 14,671 metres were drilled in three programs to test prospective structural corridors defined from the review of a combination of the recent gravity survey, a reprocessed aeromagnetic survey and new structural mapping.

The first program, which was undertaken by Hampton within the Apollo Hill exclusion zone, comprised 83 Air core holes totalling 5,567 metres. The best result of this drilling was 2 metres averaging 1.3 grams per tonne gold. This and other anomalous results were recently followed up by Hampton in a program of 17 air core holes totalling 1,444 metres. The assay results of this drilling are awaited.

The third drilling program, which was carried out on the outer area managed by Teck Cominco amounting to 100 holes for 7,660 metres, outlined a new zone of weakly anomalous gold mineralisation in felsic volcanoclastic sedimentary rocks 1.5 kilometres to the west of Apollo Hill and a northerly continuation of a weakly anomalous zone outlined within Hampton's exclusion zone. The best result as advised by Teck Cominco from this new zone was 5 metres averaging 0.6 grams per tonne gold within an 800 metre by 300 metre zone of elevated bismuth, antimony and tungsten values as shown in Figure 1.

Teck Cominco have commenced a 6,000 metre Air core program to follow up this encouraging result and other targets which were inaccessible as a result of heavy rains during the early part of the quarter.

## **Wheatley Project**

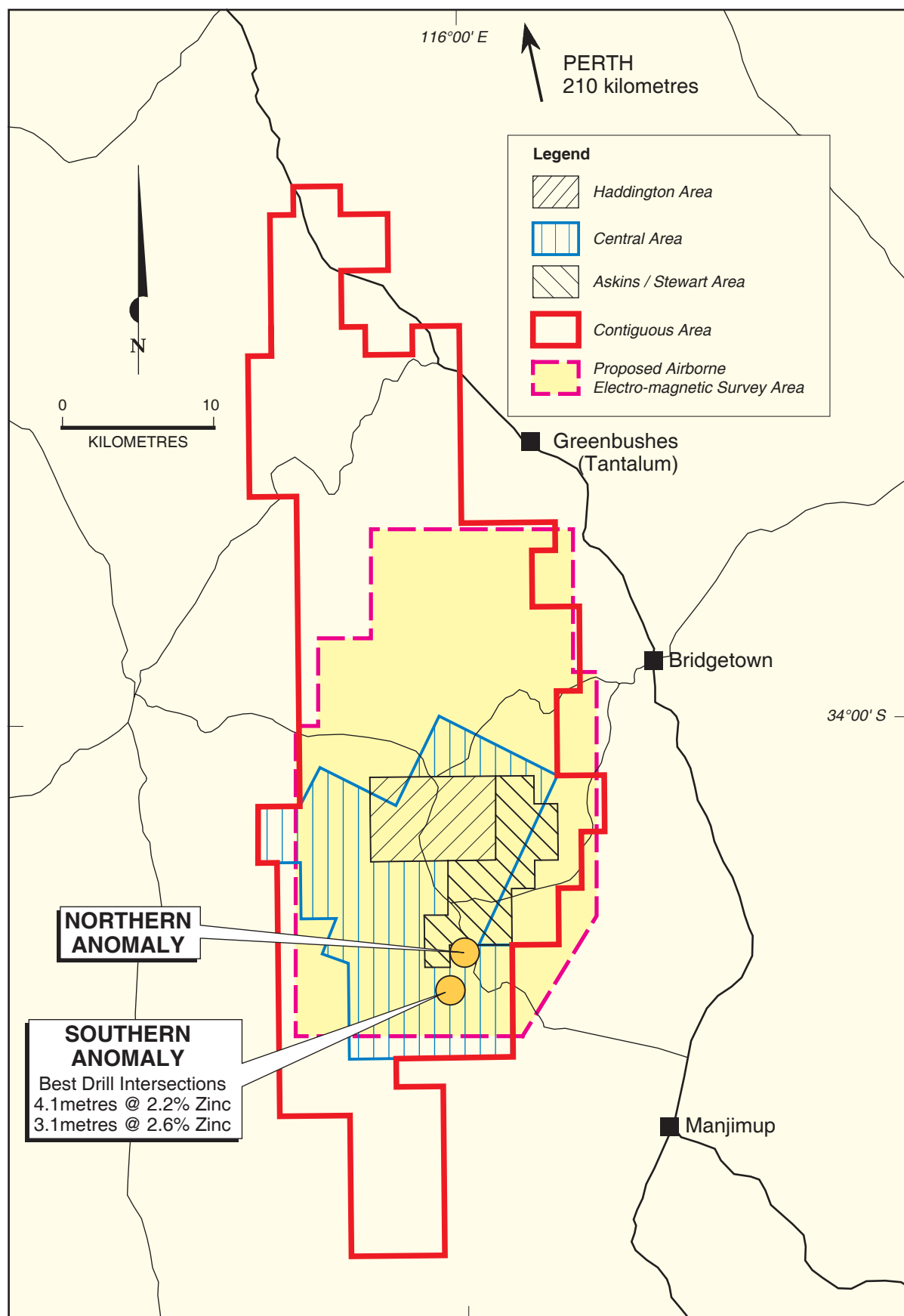
The Wheatley joint venture with Teck Cominco acting as manager is exploring a major recently recognized base metal and gold province situated between the townships of Manjimup and Greenbushes in the south west of Western Australia. Hampton has completed its earn-in expenditure, which consisted of \$250,000 of sole contribution to the joint venture, and now has a 50% contributing interest with Teck Cominco.

The Wheatley joint venture project area is comprised of four groups of tenements totalling about 700 square kilometres, as depicted in Figure 2, in which various parties hold different interests as follows:

1. The Central Area consisting of tenements which are owned by BHP Billiton Minerals Pty Ltd (BHP Billiton) from which company the Wheatley joint venture is currently earning a 50% interest;
2. The Haddington Area in which the Wheatley joint venture is earning a 37.5% interest, BHP Billiton a 37.5% interest, and in which Australian Tantalum Ltd (a wholly owned subsidiary of Haddington Resources Ltd) shall retain a 25% interest;

## WHEATLEY PROJECT AREA

Figure 2



3. The Askins/Stewart Area in which the Wheatley joint venture has a right to earn a 50% interest and BHP Billiton a 50% interest, with the vendors retaining a 1% Net Smelter Return Royalty;
4. The Contiguous Area in which the Wheatley joint venture operates with no third party involvement.

A more detailed summary of the details of the arrangements governing the various ground holdings in the Wheatley joint venture was detailed in Hampton's report to the ASX for the quarter ended 31 March 2004.

Diamond drilling by the joint venture of anomalies defined by an airborne electromagnetic (EM) survey earlier in the year returned semi massive sulphides in three of four holes. The best result from this drilling was 4.1 metres of 0.2% copper, 0.5% lead and 2.2% zinc. This work has shown that the airborne EM technique is effective in the Wheatley area and the project has the potential to host copper zinc ore bodies of a broadly similar style to that found at the Golden Grove base metal mine situated in the Murchison Goldfield of Western Australia.

The joint venture has recently commenced a new airborne EM survey to cover the most prospective portion of the Wheatley project area. The survey is being conducted using the Canadian VTEM helicopter borne system which has only recently arrived in Australia. Any anomalies defined in this program will initially be followed up by soil sampling to assist in rating the targets for drilling.

### **Griffins Find Project**

Hampton has reviewed all past exploration drilling and reprocessed data from the induced polarization (IP) survey carried out last year. Several significant gold intersections from below the main opencut suggests the possibility of a continuation of the ore system at depth. The reprocessing of the geophysical data has revealed new and promising targets based on the recognition of the differing geophysical responses to be expected between any gold bearing massive sulphide lode ores, which are the focus of the exploration efforts, and the host graphitic rocks. The graphite in the host rocks gives a broad IP effect and led to target selection which the Company now believes may have been erroneous. The new targets focus on the more polarisable hot spots in the data. The re-evaluation was based on bench scale IP testing of specimens of lode ore from the Griffins Find open pit, which demonstrated that this material was much more highly polarisable than the graphitic host rocks.

An airborne EM survey over the entire project area using the VTEM system referred to above will commence shortly. Hampton is planning an RC and diamond drilling program to test any anomalies defined by this survey together with the targets generated from the reappraisal of the IP geophysical survey and the review of past bedrock drilling. Drilling will await the completion of wheat harvesting expected by December.

## **Leinster Project**

Hampton has a 20% contributing interest with LionOre Mining International Ltd, the managers and 80% owners of the project. The project is adjacent to the LionOre Wildara project which hosts the Thunderbox gold mine and the Waterloo and Amorac nickel sulphide discoveries.

During the quarter LionOre as managers completed two diamond drill holes totalling 788 metres to test electromagnetic anomalies defined by down-hole and surface surveys. The holes returned barren sulphides in mafic rocks and carbonaceous sulphidic shale.

The intensive exploration carried out in the past year has led to the downgrading of the project although some off-hole conductors defined by down-hole EM surveying are presently being evaluated and geological appraisal of the project will continue.

## **The Murchison Gold Projects**

Hampton's Murchison gold projects comprising Ryansville, Weebacarry Bore, George Bore and White Well have been joint ventured with recently floated Aurora Minerals Limited (Aurora) for the further exploration of these projects. Aurora is required to expend at least \$100,000 within the first year of the joint venture and will need to expend \$1 million within 4 years to earn a 51% interest.

The **Ryansville** project is located along the southern flank of the Weld Range, 60 kilometres northwest of the township Cue. Reverse circulation and diamond drilling has intersected gold and arsenic mineralisation in bedrock over a strike of 4 kilometres. The Ulysses East prospect within the Ryansville project exhibits a similar style of mineralisation to 3 million ounce Hill 50 gold mine at Mount Magnet located 120 kilometres to the south. Aurora plans to commence drilling at the Ulysses East during the December quarter.

The **Weebacarry Bore** project is going through the Native Title advertising review process prior to grant. Aurora plan to drill the project following the grant of the tenement.

The **George Bore** project is situated 22 kilometres south of Meekatharra and about 7 kilometres south of St Barbara Mines Limited (St Barbara) Bluebird gold treatment plant.

The project covers the southern extrapolation of the Gibraltar-Bluebird shear zone that bounds the western margin of the Norie Pluton. St Barbara's recent discoveries of gold mineralisation at Mulla Mulla and Petra near the northern boundary. An interpretation by Aurora of an aeromagnetic survey commissioned by Hampton suggested the gold mineralisation in the area is associated with shear structures trending southwards from the area of the Bluebird mine through the Mulla Mulla and Petra prospects and towards the Gorge Bore tenement.

Aurora recently completed a 20 hole Air core drill program totalling 1,650 metres to test targets generated from this interpretation of aeromagnetic data. No significant mineralisation was intersected resulting in a downgrading of the project.

The **White Well** project is located within the Mingah Ranges, about 80 kilometres west northwest of the township of Meekatharra. Aurora's initial program of 31 RAB holes totalling 2,088 metres further delineated several prospective gold corridors. This preliminary work was followed up in the quarter by a 12 hole RAB program totalling 513 metres. No significant mineralisation was located resulting in a downgrading of the project.

## Other Projects

At the **Capricorn Project**, near the township of Newman, a planned four hole program of RC drilling to test down hole electromagnetic anomalies for nickel sulphide mineralization is scheduled to commence in mid November. Hampton has a 30% free carried interest in this project, which is managed by Traka Resources Ltd.

No field work was carried out on the Company's other projects including **Polelle** and **Glenview** during the quarter.

Yours faithfully,



Wilson Forte  
Managing Director

*Wilson Forte, who is a corporate member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists and has a minimum of five years experience in the field of activity in which he is reporting, has compiled this report.*