



**NIAGARA**  
**MINING LIMITED**  
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27 June 2006

Company Announcements Officer  
Australian Stock Exchange Limited  
Exchange Centre  
Level 4, 20 Bridge Street  
SYDNEY NSW 2000

[www.asxonline.com](http://www.asxonline.com)

Dear Sir

**Re: HIGH TENOR MASSIVE NICKEL SULPHIDE ASSAY RETURNED**

We enclose herewith a copy of an announcement in relation to the above.

Yours faithfully

**Douglas C. Daws**  
EXECUTIVE CHAIRMAN

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**CORPORATE DIRECTORY**

**Director / Senior Management**

Douglas Daws	Executive Chairman
Chris Daws	Chief Executive Officer
Bruno Sceresini	Non-Executive Director
Peter Landau	Non-Executive Director
Ross Kestel	Company Secretary

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**Shareholder Enquiries**

Enquiries concerning shareholdings should be addressed to:

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GPO Box D182, Perth WA 6840  
Tel: 61 8 9323 2000

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**Home Exchange**

The Company's shares are listed on the Australian Stock Exchange and the home exchange is Perth ASX code: NIA



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ASX Announcement

27 June 2006

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## **HIGH TENOR MASSIVE NICKEL SULPHIDE ASSAY RESULT**

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Niagara Mining Limited (ASX: NIA) is pleased to announce to shareholders that a **zone of high grade** massive nickel sulphides has been intersected in a deep diamond exploration wedge hole drilled by the Company into an area of limited previous exploration. The parent hole, WED4, is located approximately 10km south of the Mt Windarra nickel mine (appendix 1) and was drilled by WMC in 1979. The original hole intersected 0.1m @ 17% Ni from 796.3m and 0.15m intersection @ 13.5% Ni from 797.1m.

WED4A was drilled to intersect a DHEM (downhole transient electro-magnetic survey) target identified during a recent geophysical survey and reappraisal of the old WMC diamond drill hole (WED4). It is the Company's belief that this further intersection could be indicative of a new high tenor nickel sulphide system at the WNP and is distinct from previous discoveries made at Mt Windarra by Poseidon NL and at South Windarra by the Hanna/Homestake/Union Oil JV during the nickel boom in the late 1960's.

WED4A has been completed to 862m and the mineralisation is 24m updip from the parent hole intersection. DHEM survey results indicate that the central section of the conductor has not been intersected. The interpretation suggests that the source is centred above (to the west or updip) and to the north of the hole. The Company believes that the intersection is part of a larger remobilised massive nickel sulphide zone which should be situated in close proximity.

WED4A yielded the following result, believed to be approximate true width;

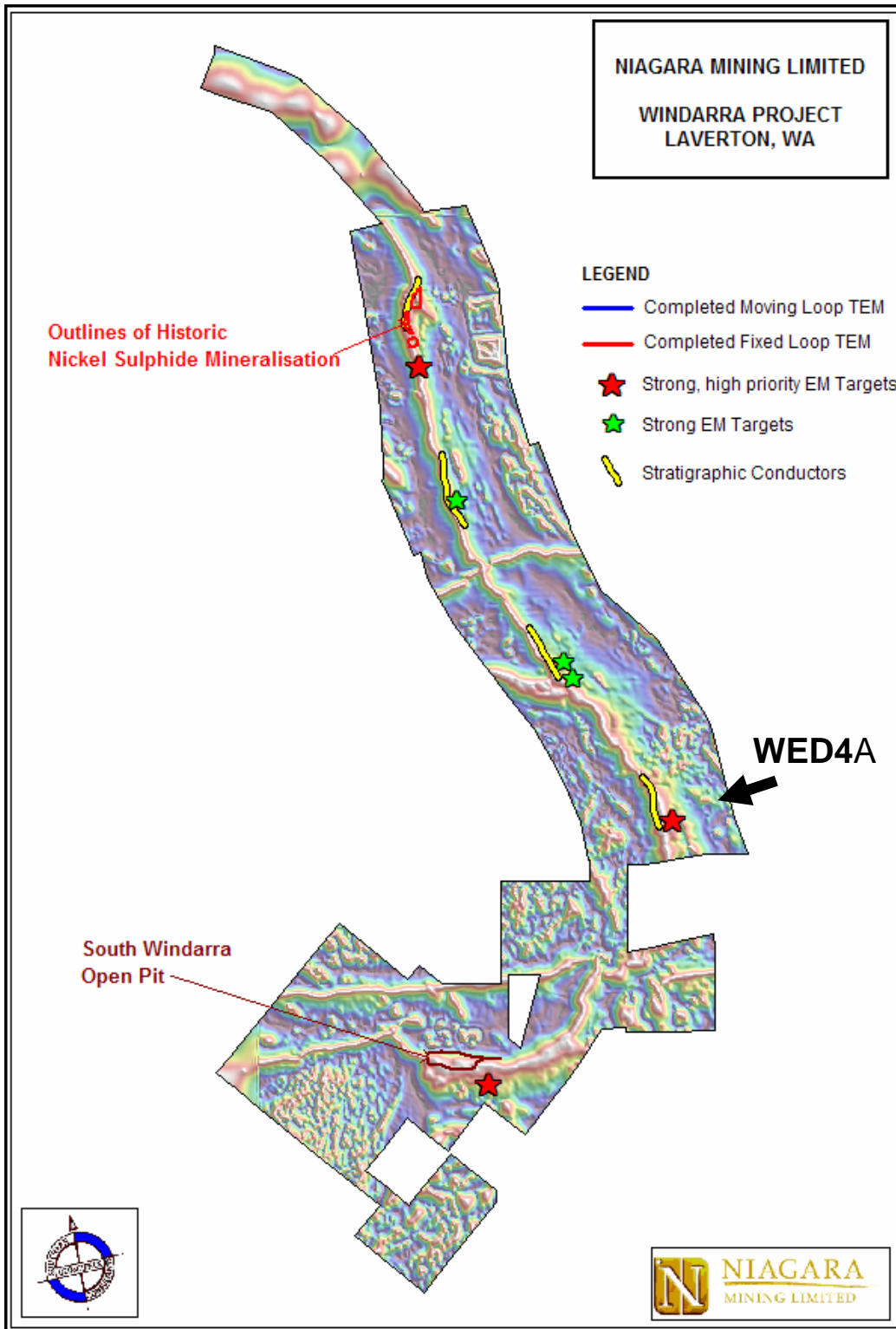
**0.37m @ 17.58% Ni (794.80 – 795.17m) downhole**

The above results are extremely positive and the Company looks forward to continue developing its exploration a development strategy for the Windarra Nickel Project.

Yours faithfully

**Douglas C. Daws**  
EXECUTIVE CHAIRMAN

*Note: The information in this report that relates to exploration results is based on information compiled by Mr M Elias who is a Fellow of The Australasian Institute of Mining and Metallurgy. Mr Elias is employed by CSA Australia Pty Ltd. Mr Elias has sufficient experience which is relevant to the style of mineralisation and type of deposits 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. The Australian Stock Exchange has not received and does not accept responsibility for the accuracy or adequacy of this release.*



Appendix 1. Location Map WNP – WED4A