

# NIUMINCO GROUP LIMITED



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The information in this report that relates to exploration results is based on Information reviewed by Ian Plimer (BSc [Hons], PhD) who is a Fellow of the Australasian Institute of Mining and Metallurgy. Professor Plimer is a director of Niuminco Group Limited and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity 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. He consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

# NIUMINCO'S OPERATIONS



- Operating in the world class geological provinces of Papua New Guinea and Tasmania, Australia.
- In PNG, 3 highly prospective properties adjacent or close to existing large mines or deposits. Niuminco has benefited from \$11.6m exploration funding spent by Mincor Resources NL under JV/farm-in agreements over past 2 years (2 of which have now reverted 100% to Niuminco, with the third held 83% by Niuminco).
- In Tasmania, 3 advanced projects owned by TNT Mines Ltd. Niuminco's shareholding in TNT Mines Ltd is currently over 72.5%.

# WORLD CLASS GEOLOGICAL PROVINCES



Papua New Guinea



Tasmania



# NIUMINCO'S PNG PROPERTIES



- Edie Creek mining leases (83% interest) – epithermal gold and silver prospect adjacent to Hidden Valley mine.

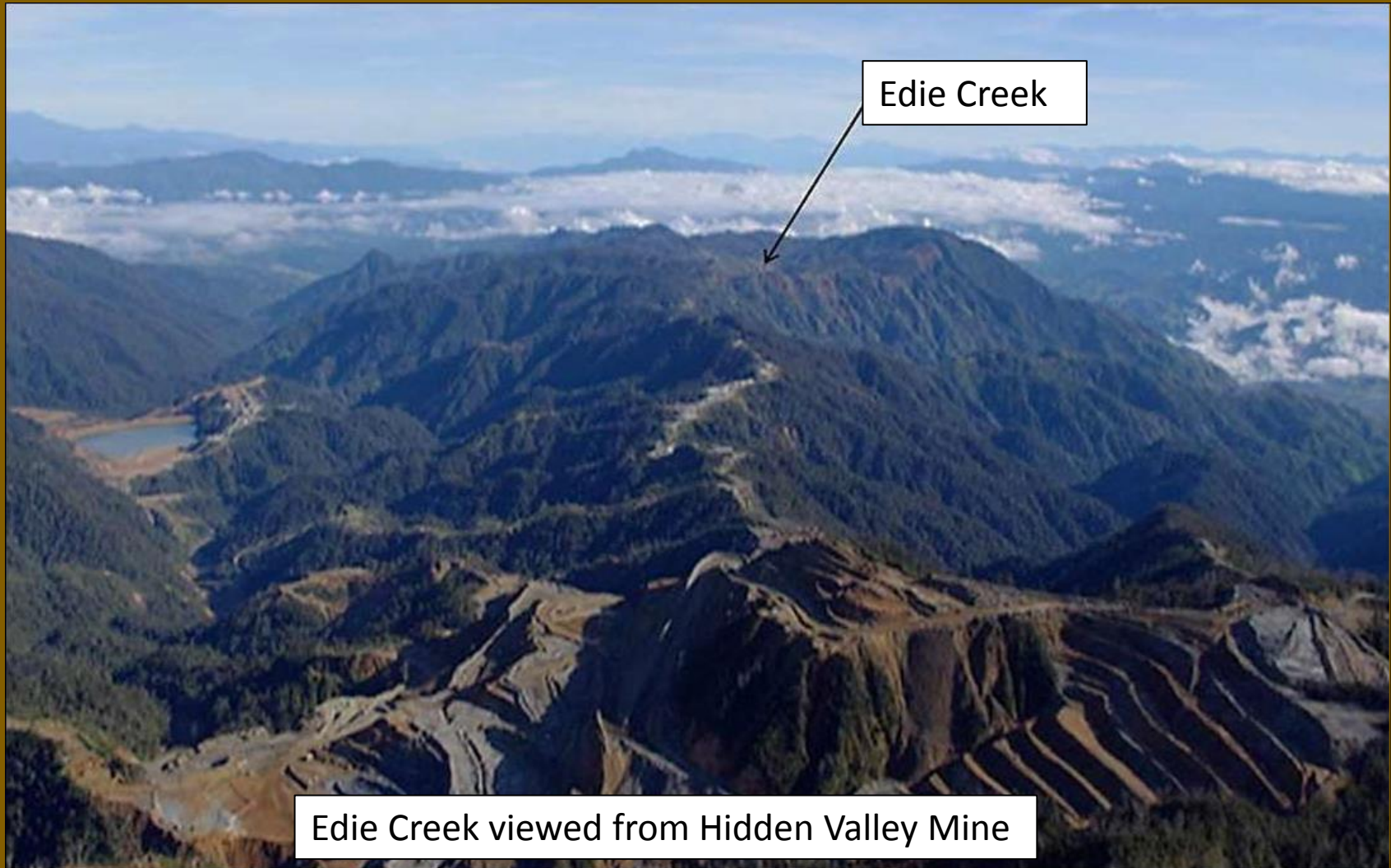
Exploration Target of  $\approx$  5m-10m tonnes ore @ 1.0g/t to 1.5g/t gold & 17g/t silver for 400,000 ounces of gold (plus silver) (\$550 million @ AUD \$1,350 /ounce gold).

- May River (100% interest\*) – major copper gold porphyry style geophysical anomaly. Adjoins PanAust's Frieda River copper/gold deposit.
- Bolobip (100% interest\*) – 60km east of Ok Tedi, a major copper-gold porphyry target.

\* Mincor PNG has a 5% NSR royalty interest in these properties.

All exploration targets are approximate and based on historic exploration and/or mining results by previous owners and operators of the deposits. The potential quantity & grade is conceptual in nature, and 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.

# EDIE CREEK



Edie Creek

Edie Creek viewed from Hidden Valley Mine

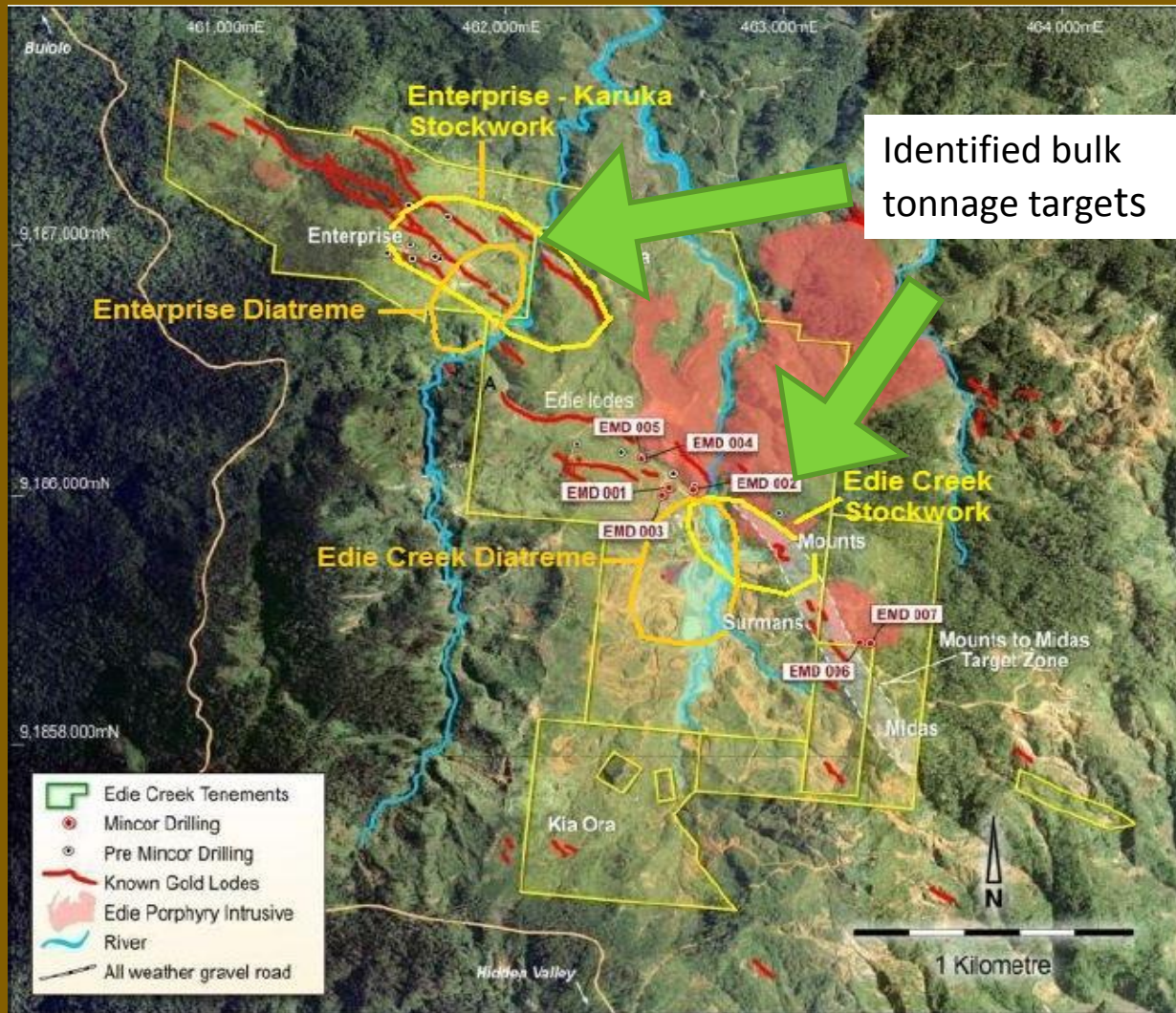


# EDIE CREEK – SITE INFRASTRUCTURE





# EDIE CREEK Epithermal Gold & Silver



- High grade Au-Ag veins
- Lower grade bulk tonnage – a number of bodies with substantial economic potential identified.
- First phase of recent drilling has been completed with 14 holes drilled .
- 2<sup>nd</sup> stage drilling program of 10 holes proposed.



# HOTMIN – BASE FOR MAY RIVER



- Niuminco's base camp acts as a regional exploration base at Hotmin.
- Ideal locality in centre of May River Exploration Licence.
- Existing airstrip, and major supplies brought in by low-cost river transport.
- A major airborne geophysical survey completed.
- Airborne VTEM and ZTEM, covering North & South May River completed.



# LOW COST RIVER TRANSPORT



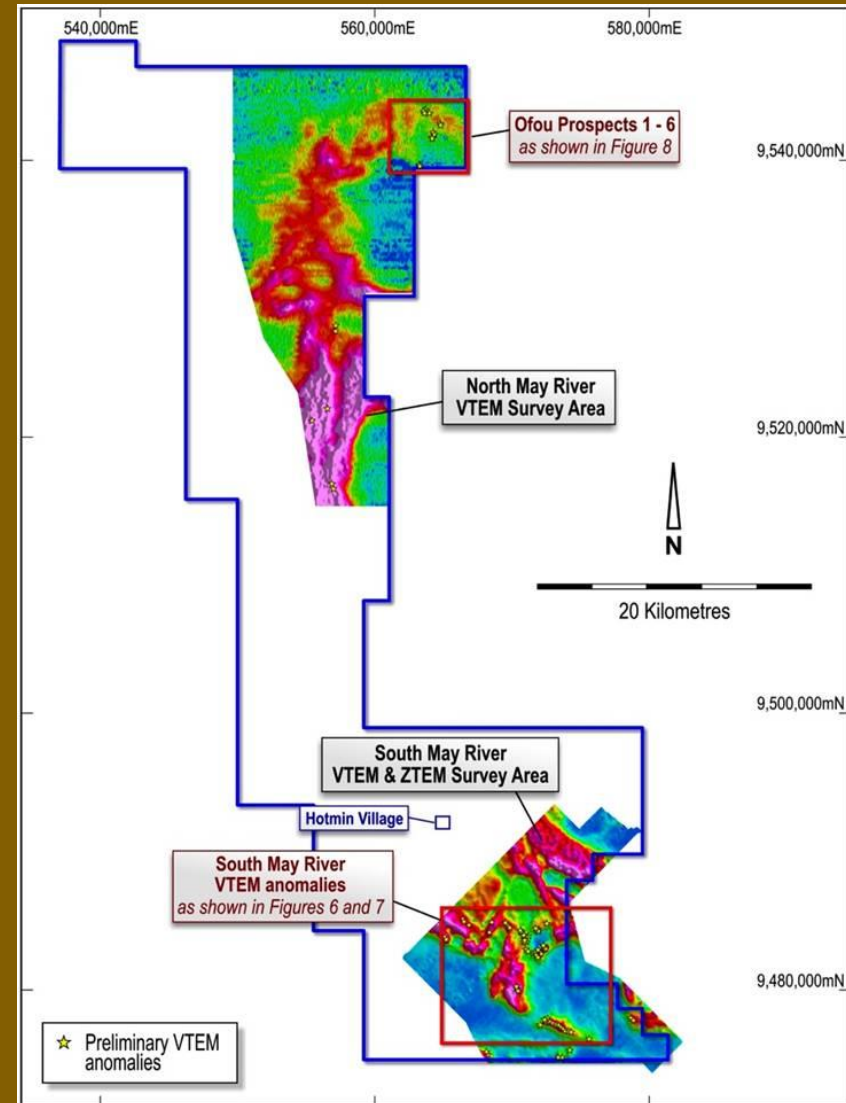
Fuel supplies being loaded onto the barge Talimbun for transport to May River



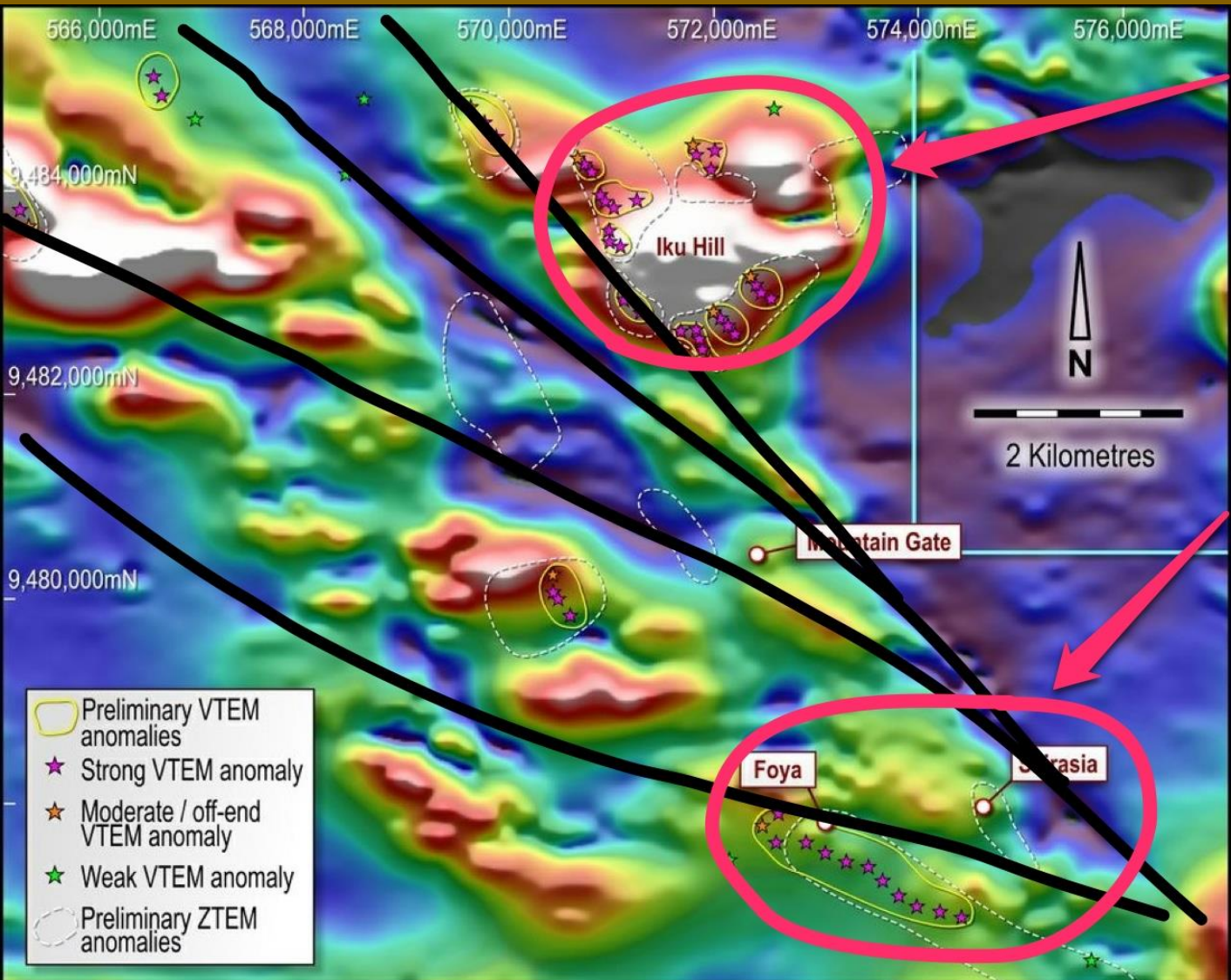
# MAY RIVER – AIRBORNE SURVEY



- Two major heli-borne geophysical surveys completed at May River in late 2011. Both consisted of:
  - **Aeromagnetics:** Well proven method.
  - **VTEM:** an advanced & well proven method used to find massive sulphides.
  - **ZTEM:** a still-experimental new system designed to map resistivity and hence infer zones of chargeability (thus possibly disseminated sulphides, such as porphyry copper mineralisation).
- A strong set of new targets, and new features around existing prospects, have been identified and are ready for ground follow-up or drill testing.



# Magnetics, VTEM & ZTEM Anomalies



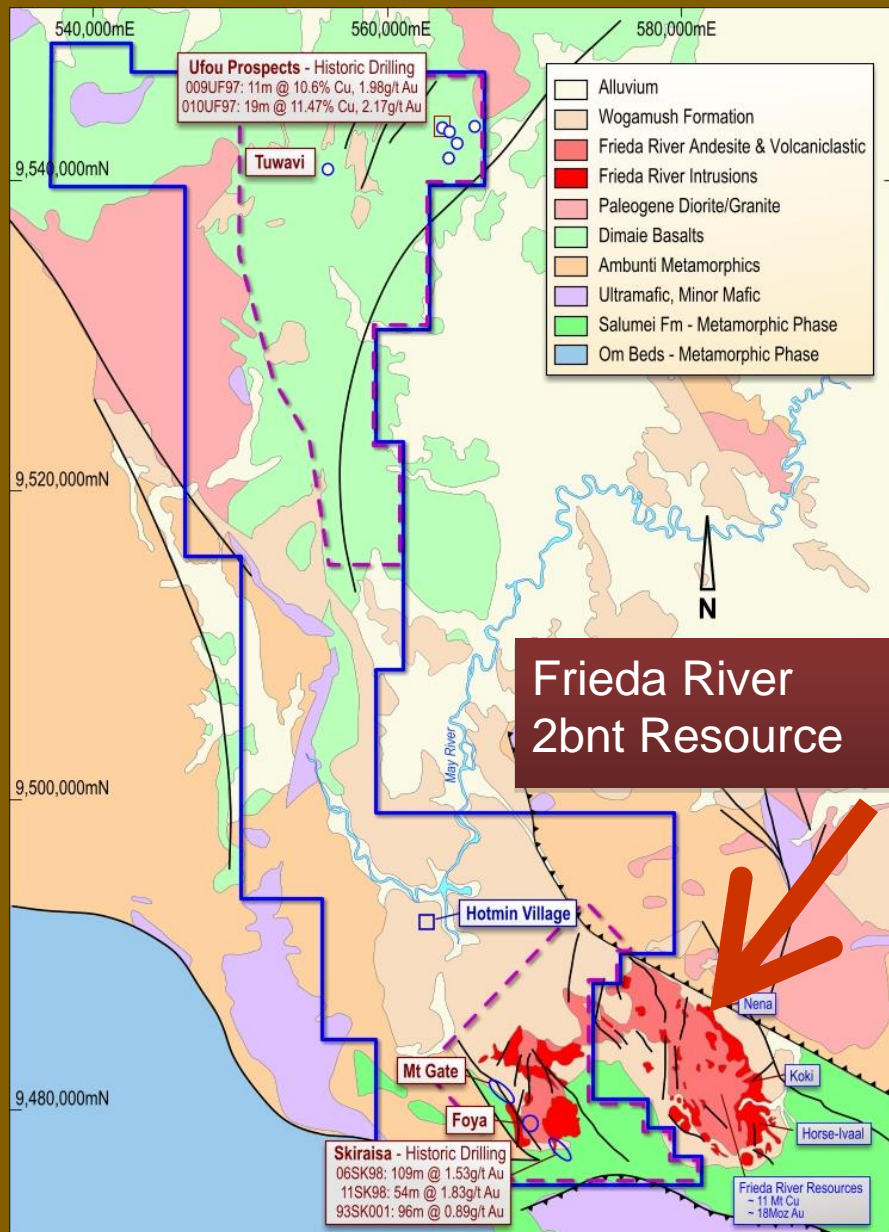
**Major Porphyry copper-gold geophysical target:** Magnetics, VTEM and ZTEM anomalies over mapped porphyry intrusive, 9km from 2bnt Frieda River resource

**Diatreme-hosted gold mineralisation on structural splay, coincident VTEM and ZTEM anomalies, best drill intersections at Skirasia:**

- 109m @ 1.55g/t;
- 44m @ 1.83g/t;
- 33m @ 2.37g/t



# MAY RIVER



## SKIRASIA HISTORIC DRILLING:

06SK98

109m @ 1.53g/t Au

11SK98

54m @ 1.83g/t Au

93SK001

96m @ 0.89g/t Au

## UFOU PROSPECTS:

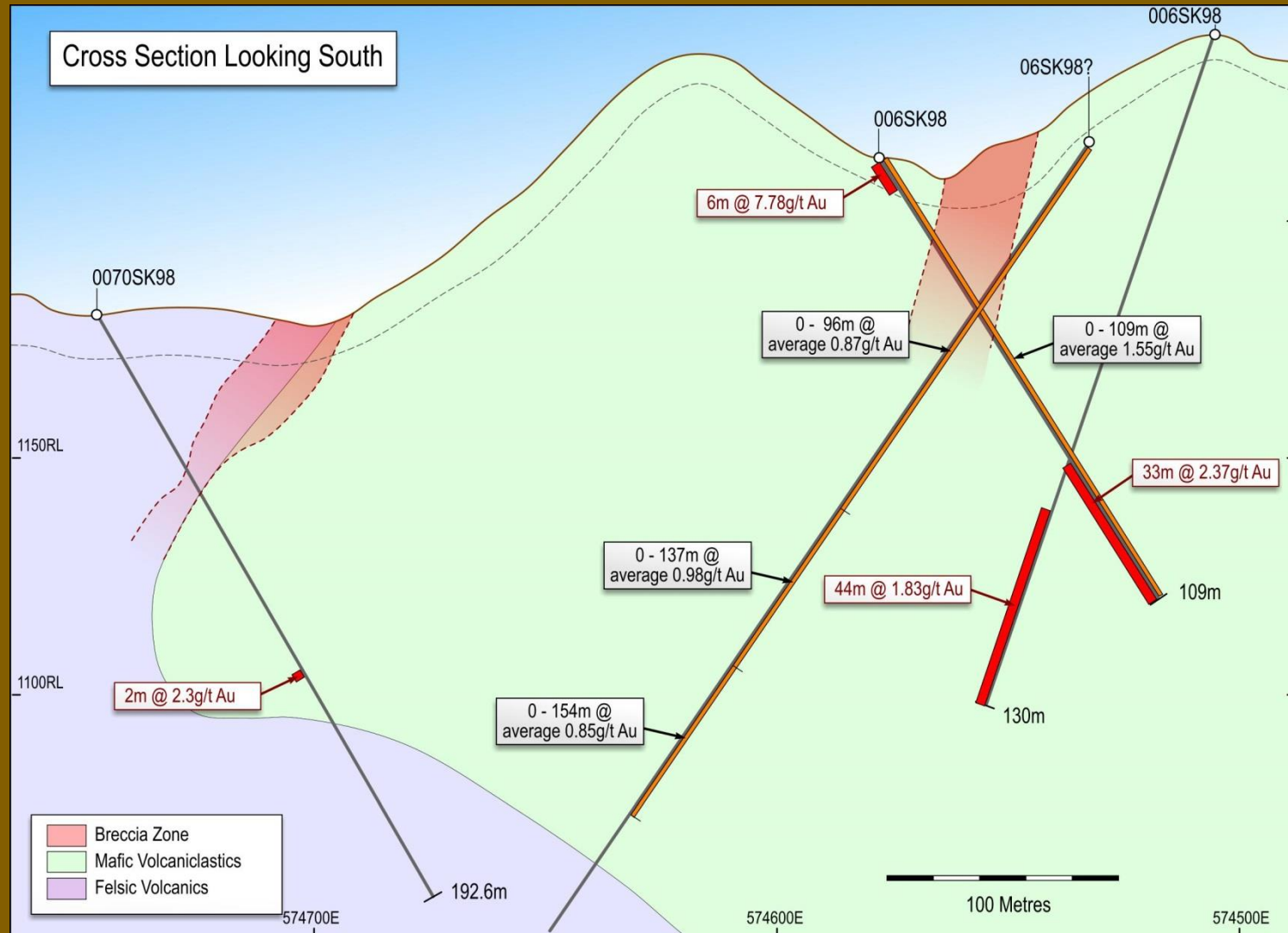
009UF97

11m @ 10.6% Cu, 1.98g/t Au

010UF97

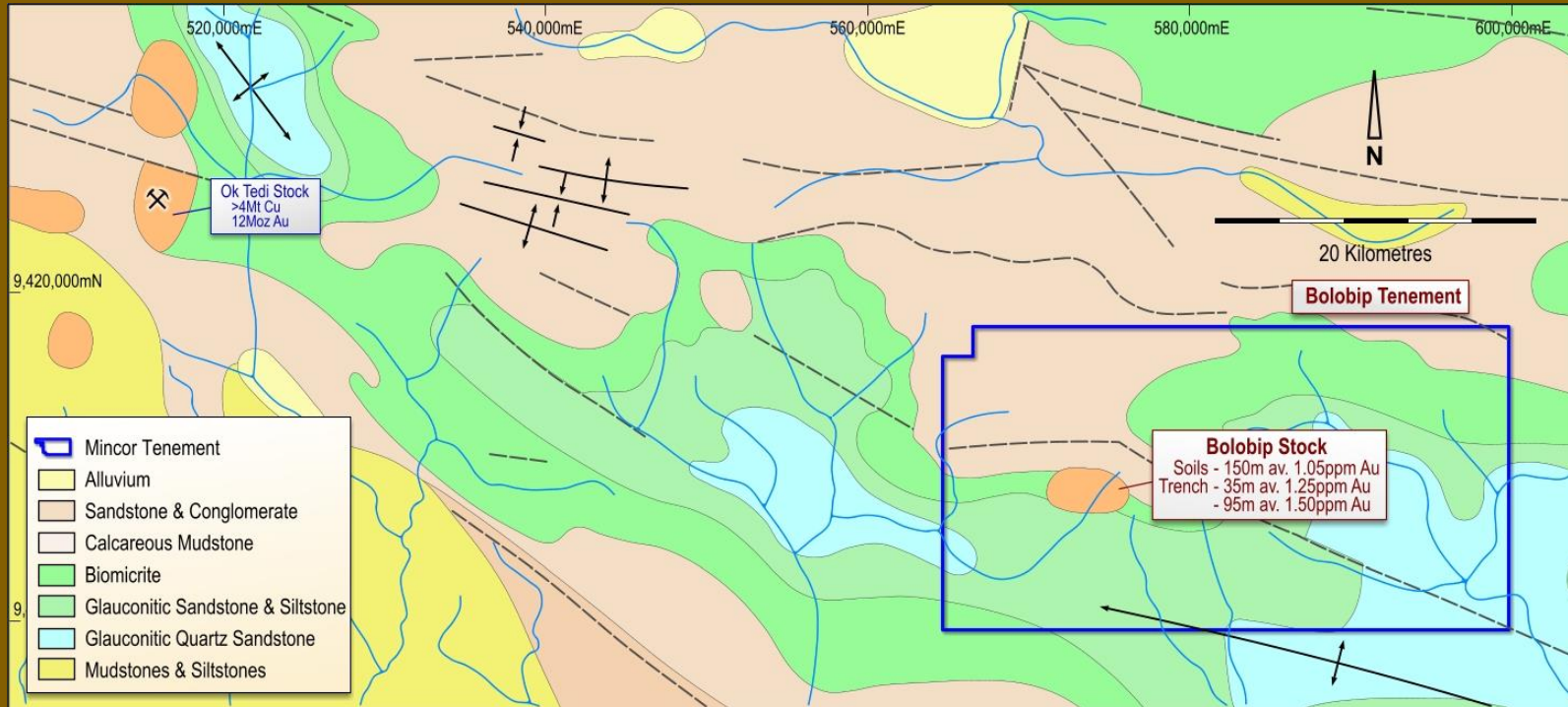
19m @ 11.47% Cu, 2.17g/t Au

# SKIRASIA – Cross Section & Drill Results





# BOLOBIP



- Bolobip Stock – 60km east of Ok Tedi - a major copper-gold Porphyry target.
- A multi-phase intrusive complex. No drilling.
- Latest data shows coherent 1km diameter copper and gold anomaly, with peripheral lead and zinc.
- Classic geochemical signature of a leached cap above a mineralised copper-gold porphyry system.
- Extensive surface gold mineralisation in trench channel samples (CRA).

# BOLOBIP BASE CAMP



Mt Faim  
(2910m)

Kaum Stock  
(2220m)

Hindenberg Wall

BOLOPIP BASE CAMP  
(1840m)



# THE NEXT 12 MONTHS NIUMINCO'S FOCUS AND PLANS



## ■ **EDIE CREEK**

- Immediate Stage 2 drilling of 10 holes in bulk tonnage target (Exploration Target of 5 to 10 million tonnes @ 1.0g/t to 1.5g/t).
- If results positive, accelerate stage 3 drilling of 50 to 100 holes with aim of JORC inferred resource in first half 2014.
- Finalise metallurgical, mining and processing investigations with aim of resuming mining and processing by January 2015.

## ■ **BOLOBIP**

- Confirm 3 drill targets for 1000m to 1800m of drilling and complete drilling first quarter 2014.

## ■ **MAY RIVER (South May River Area)**

- Geological groundwork in new year 2014 to define and confirm early drill targets for drilling June quarter 2014.

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# NIUMINCO VALUE PROPOSITION



- Independent Expert Report Valuation (24 October 2013):

Niuminco assets	\$6.1m to \$17.2m
TNT assets	\$3.4m to \$4.9m
TOTALS	\$9.5m to \$22.1m

- Valued at mid-range of \$15.0m or 2.8 cents per share (72.5% Niuminco interest in TNT)
- This valuation includes Niuminco's Edie Creek project at only \$1.0m and TNT's Moina project at zero – both have significant upside value potential.



# CORPORATE OVERVIEW



## Board of Directors:

Terry Willsteed – Independent Chairman

Tracey Lake – Managing Director

Prof. Ian Plimer – Independent Director

## Capital Structure:

Shares on issue	501,473,959	
Options on issue	6,000,000	(expire 30/4/14)

**ASX Code:** NIU

**POMSoX Code:** NIU

**Website:** [www.niuminco.com.au](http://www.niuminco.com.au)