

NIUMINCO GROUP LIMITED

CORPORATE PRESENTATION February 2024



Gold producer, developer and explorer with assets in Australia, NZ and PNG



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The information in this report that relates to exploration results is based on Information reviewed by John Nethery (BSc., Dip. Ed., FAusIMM (CP), FAIG,FSEG,MGSA) who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Nethery 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 2012 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.

Australian, PNG & NZ Producer and Explorer





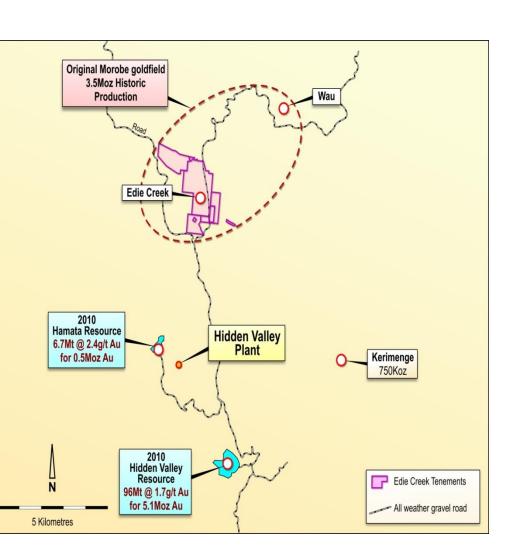
- EDIE CREEK MINE Expanding, producing gold and silver mine operated by Niuminco for past 12 years. New 10-year ML renewal granted July 2022
- CHILLAGOE CALCIFER PROJECT 90% interest in 3 MLs in FN Qld, highly prospective for gold/copper with scattered historic copper workings.
- NEW ZEALAND OPHIR GOLD PROJECT Acquiring 100% interest in potential +100,000 oz Au mine with new 10-year Mining Permit & historic workings
- SELLHEIM COPPER/GOLD PROJECT-100% interest in 3 MLs and 2 EPMs, Qld

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Edie Creek – An Operating Gold/Silver Mine

Epithermal Gold and Silver Deposit

- Edie Creek is located in the Morobe Province, approximately
 5km from Harmony Gold's Hidden
 Valley Mine, which produced
 ~200Koz of Au, 2Moz Ag in 2022.
- Edie Creek comprises ML 511 covering 3.89 sqr kms. It includes high grade Au-Ag veins and lower grade bulk tonnage options with substantial economic potential.
- Within the consolidated ML 511, Niuminco has developed a 100person camp, mining/processing infrastructure, maintenance and administration facilities.
- Measured scale-up of mining & processing over the past 10 years.
- AUD\$10M spent on exploration by Niuminco.





Edie Creek Production

NIUMINCO

Significantly Increased Capacity

- Edie Creek processing capacity is now up to 55 tpd in a single, 11hour shift.
- Niuminco has created flexibility in its operations to become cash flow positive with either low-volume, high-grade throughput or highervolume, lower-grade throughput.
- At current gold prices and operating costs, break-even production at Edie Creek is approx. 20oz Au per month (or 20g Au per day).
- Edie Creek operations were cashflow positive for the 12 months ending 30 June 2022.



The increase in operating capacity can significantly increase the gold/silver production potential going forward.

Increased Processing Capacity





- Increased processing capacity as a result of additions and modifications to processing infrastructure in recent years and proposed future purchases including:
 - Past commissioning of 5tph ball mill and larger vibrating feeder and feed shoot
 - Past upgrade of the Gekko ISP concentrator plant
 - Planned future purchase of the A\$1.0M "Acacia" cyanide processing plant.

Increased & more reliable Mining Capacity



Increased and more reliable mining capacity from A\$0.2M planned refurbishment of all items of mining fleet acquired in recent years :

- 2 x Komatsu D85 bulldozers
- Komatsu D65 bulldozer
- 1 x 40t and 2 x 30t articulated tip trucks
- 1x 30t Komatsu fuel/services truck
- 1x 6 tonne and 1x 21t,1 x
 30t & 1 x 35t excavators
- Komatsu wheel loader



Increased & more reliable Mining Capacity



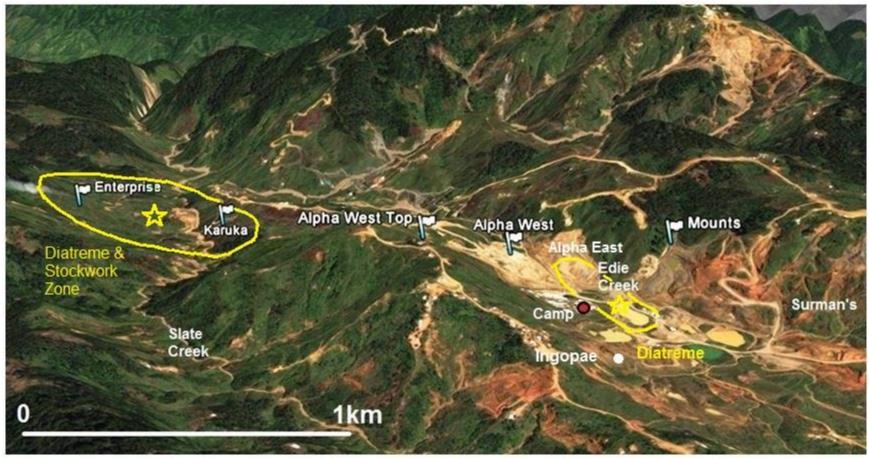


- Planned purchase of 1x Isuzu truck, 1x utility vehicle (A\$0.1M)
- Planned purchase of an alluvial mining plant
- Acceleration of current mining of medium to high grade vein/lode systems, and
- Mining of recently discovered vein systems & bulk tonnage areas



7 known sheetlike epithermal veins & 2 bulk-tonnage diatreme-stockwork zones

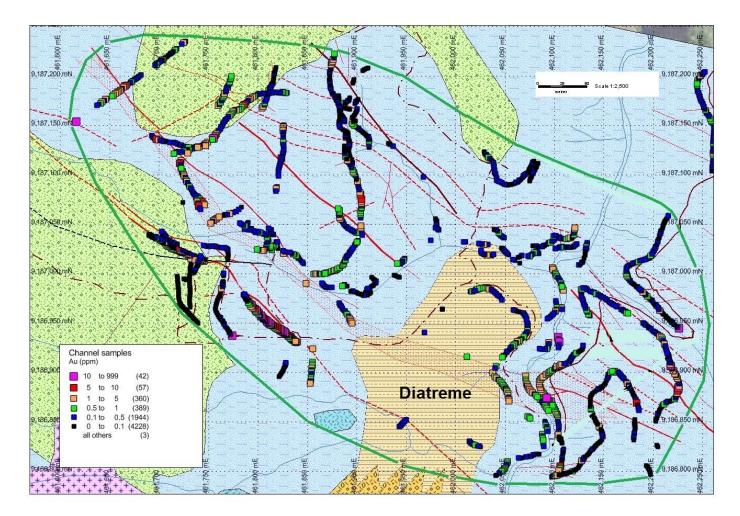




Partly mined & drilled higher grade vein systems (Enterprise, Karuka, Alpha West, Alpha East, Mounts, Surmans and Ingopae) & bulk tonnage targets (Karuka-Enterprise, Edie Creek)-

Karuka – Enterprise Diatreme & Stockwork

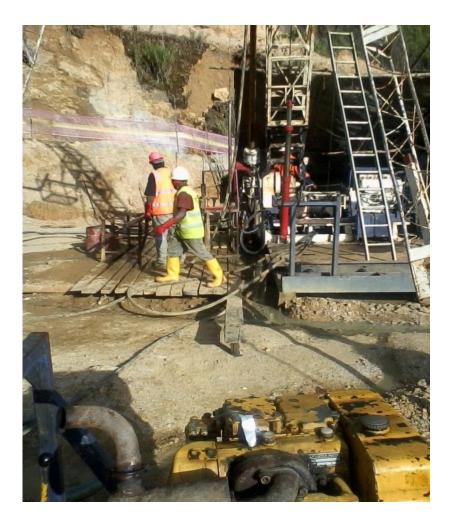




1300 traverse chip samples over generally 2 metre intervals for cumulative 2600 metres within the 600m x 300m ovoid target area average 0.53 grams/tonne gold

Edie Creek Exploration & Drilling Programs





- Edie Creek is highly underexplored only 51 drill holes for approx. 6,800m since drilling commenced in 1988.
- Testing for extensions of known vein and lode systems, bulk tonnage and copper-gold porphyry targets using Niuminco's own drill rigs and crew.
- 62-hole 2600m Resource drilling program planned for 2023/4.
- Very promising results from 6 holes in the Enterprise vein system and 2 holes into the Karuka/Enterprise stock-work, confirming potential of this bulk-tonnage target.
- Exciting new, large vein discovered at Karuka - 4.11g/t Au, 125g/t Ag

Edie Creek Drilling Programs





- Niuminco crew drilling
 EDD024atKaruka/Enterprise
 stock-work & diatreme.
- EDD024 intercepted 48m @
 1.72g/t from surface.
- Future focus on this area and copper/gold porphyry targets

- Drilling one of the six holes in the **Enterprise vein system** (right).
- All 6 holes had high grade intercepts
- Newly discovered Karuka vein to be drilled



Calcifer Mining Leases, Far North Qld, Aust.

GOLD – COPPER – TIN PORPHYRY – SKARN - BRECCIA

- NIUMINCO GROUP LTD (90%)
- AUSTRALIAN FINEGRAIN MARBLE P/L (10% Carried)
- <u>CALCIFER</u> Mineral Field 10km from Chillagoe - MLs 20513, 20515, 20516
- Sonya Hills & Hobson's (1 km²) -Historic small copper workings
- <u>Past</u> surface reconnaissance scale mapping, positive rock chip sampling & peripheral shallow Reverse Circulation drilling



CHILLAGOE DISTRICT Calcifer is 25km from Red Dome & Mungana (+2M ozs Au)





Sonya Hills and Hobson's Mining leases

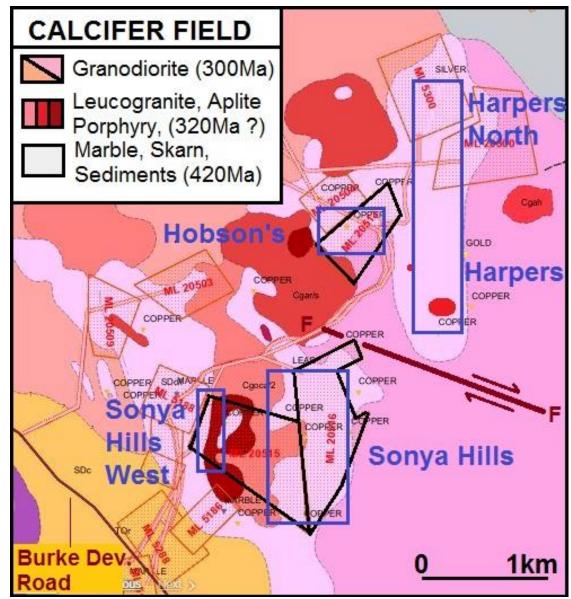


 Multi-phase magma bodies

• Small plugs of gold – bearing leucocratic microgranite, porphyry and aplite

• Wedge of Chillagoe formation sedimentary rocks

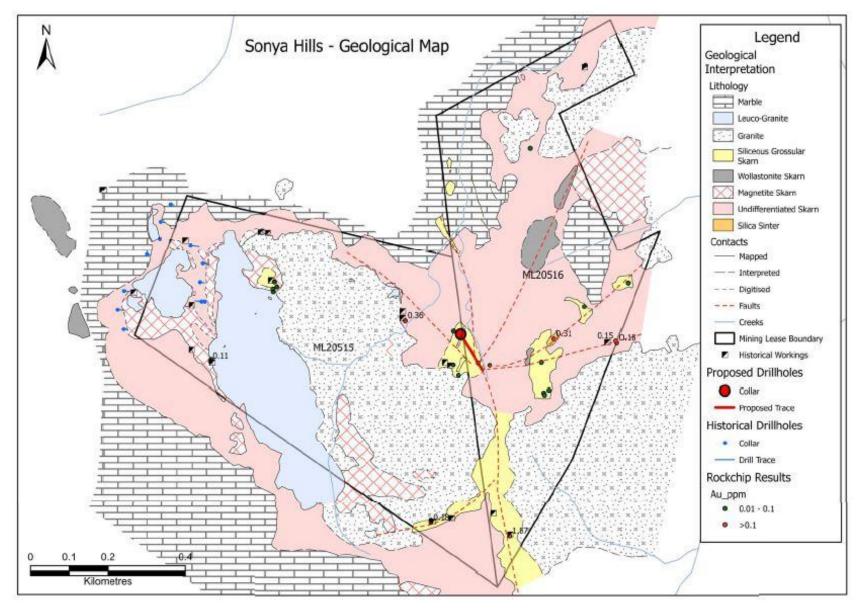
• Complex of mining leases, mainly dormant marble leases



Sonya Hills Exploration Programme

Detailed mapping confirms model & initial drillhole planned





Calcifer - Summary



- Mining Leases (3) with small copper pits over +1 km²
- Surrounded by dormant leases mainly for marble
- Porphyry skarn breccia alteration zones roughly the same size and type as Red Dome (+2M oz Au)
- Leucogranite, aplite and porphyry inferred to be O'Briens Supersuite the local source for gold & tin
- Rock chip sampling shows broad spread of gold to maximum 8.9 g/t and anomalously high copper.
- Multiple strongly anomalous broad gold, tin & copper drill intercepts from previous drilling.
- Drill target defined by geology mapping & sampling

OPHIR GOLD PROJECT - New Zealand

- Highly Prospective Project in New Zealand
 - The Ophir Gold Project is located in the **Otago Goldfields** of NZ
 - New **10-year Mining Permit** commencing March 2021
 - New surrounding **5-year exploration permit** commencing July 2021
 - On S-E extension of major shear structure from adjoining 3.0M oz Au Santana Minerals' deposits
- Targeting Gold Production in 2024/5
 - 2-year development plan for the Ophir Gold
 project +100,000 oz Au potential
- Significant Exploration Upside

- Planned extension drilling along strike and downdip of the brittle shear zone-hosted (orogenic) gold deposit to **define a JORC 2012 Resource**.





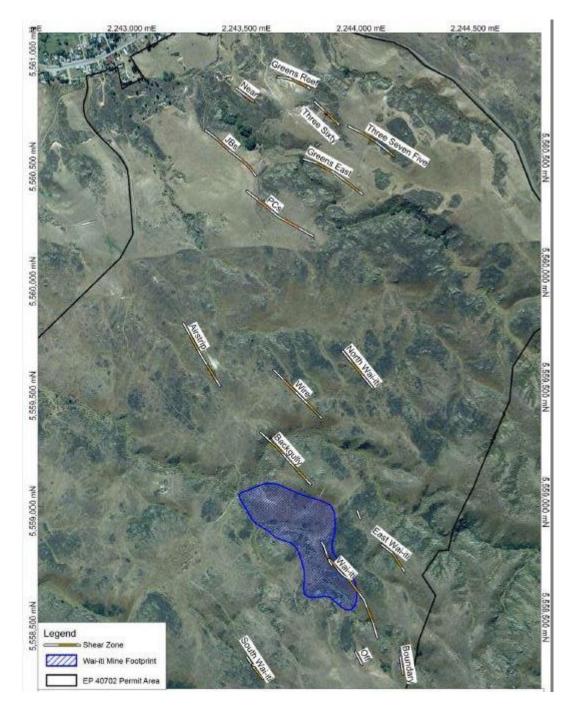
OPHIR GOLD PROJECT - New Zealand

Open grazing country

- Minimal outcrop of host metamorphic rocks
- Gold-bearing quartz veins outcrop sporadically



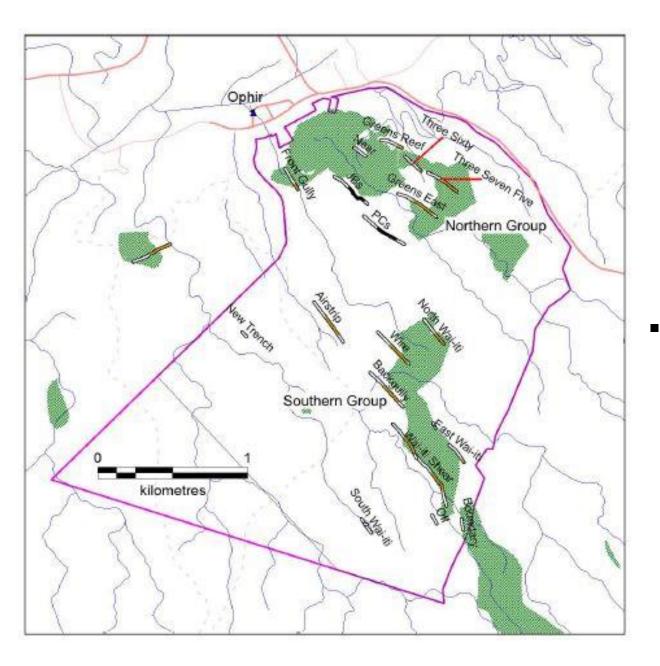






OPHIR GOLD PROJECT - New Zealand

- MP60348 / EP60640
 - 15 known gold –
 bearing shear zones
 - Wai-ihi in MP 60348
 - EP 60640 6 sq km





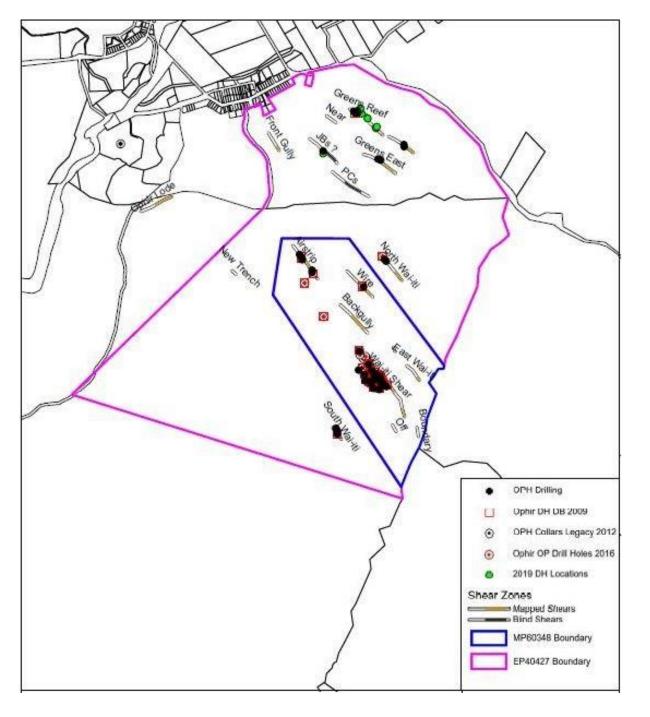
OPHIR GOLD PROJECT -New Zealand

Lithology Control

- Green schist unit shown

- Gold-bearing quartz veins seem to be controlled by green schist (altered basalt) boundary with other metamorphic rock units

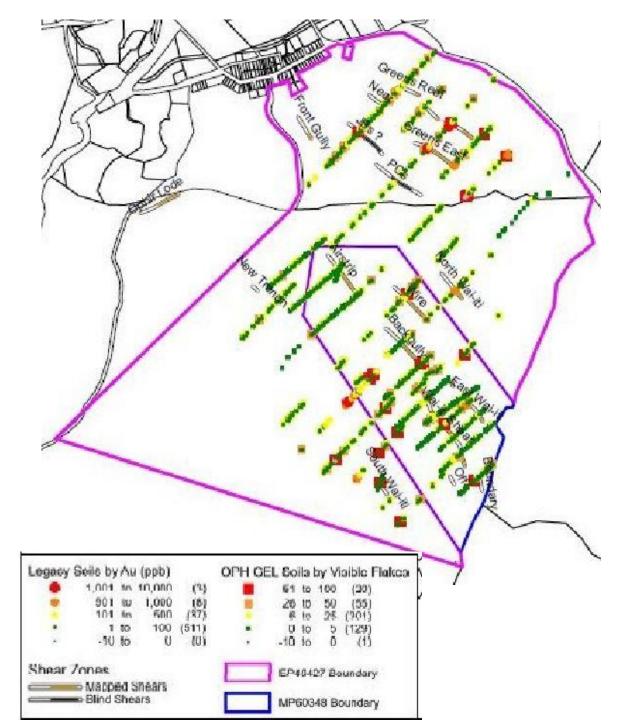
- Potential for low grade sheeted veinlets zones throughout green schist.





OPHIR GOLD PROJECT -New Zealand

- MP60348 / EP60640
 - 15 known gold –bearing shear zones
 - Wai-ihi in MP 60348
 - EP 60640 6 sq km





OPHIR GOLD PROJECT -New Zealand

Soil Geochemical

- Much low order dispersed anomalism associated.
- Gold-bearing quartz veins outcrop sporadically
- 60% of soil samples had visible gold in panned concentrates

OPHIR GOLD PROJECT - New Zealand



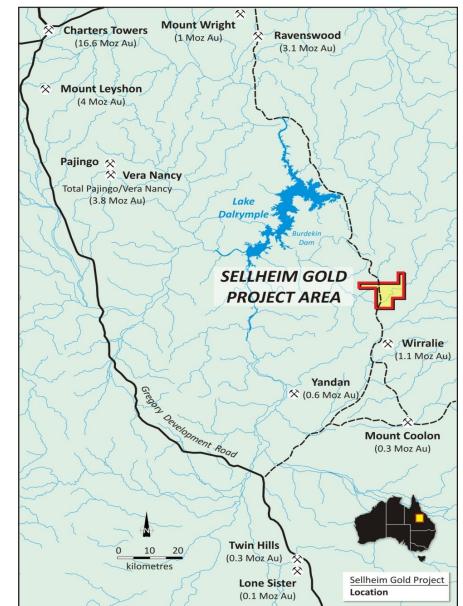
- Wai-ihi and Greens require twinned drill holes to upgrade to JORC Resource.
- Multiple gold-bearing shears, like Macraes, open down dip & along strike
- Amenable to gravity or gravity flotation concentration



SELLHEIM COPPER/GOLD PROJECT

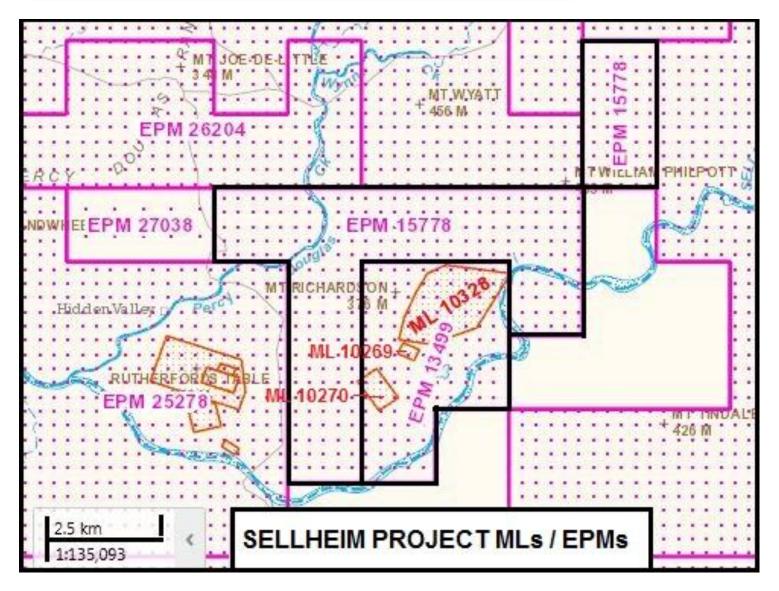


- 200km S of Townsville via Burdekin Dam
- 35km S of Burdekin Dam
- 18km N of Wirralie Gold & 50km N of Mt. Coolon Gold
- Brownfield project with +\$5.0M spent on exploration.
- Alluvial Plant & Mining equipment





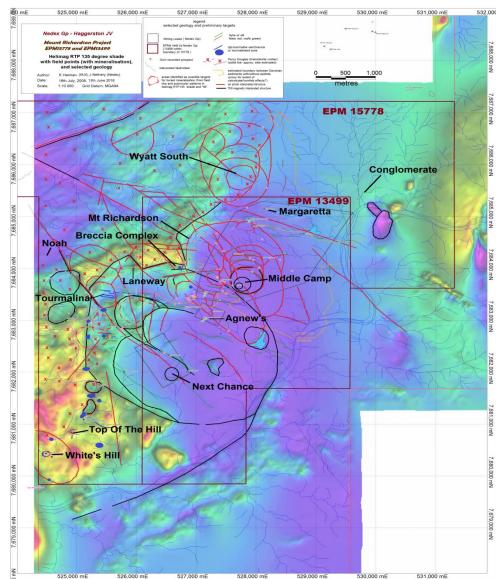
<u>3 - MLs 10269, 10270, 10328</u> <u>2 - EPMs 15778, 27548 (ex – 13499)</u>



TMI & Air Photo Interpretation



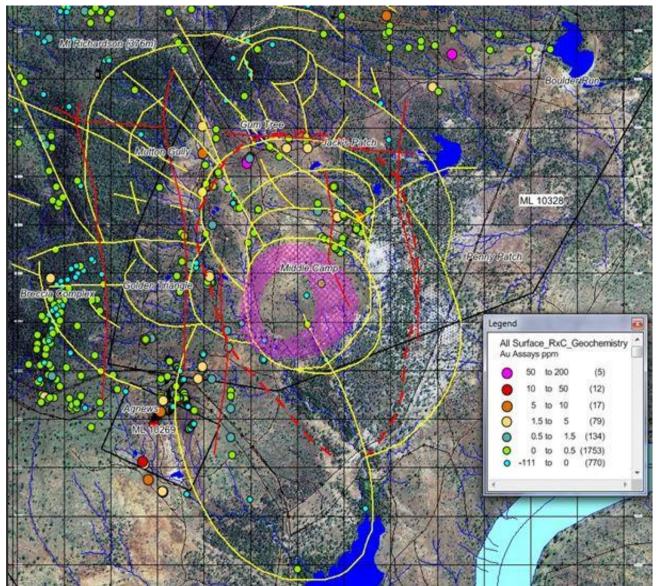
- Mt Richardson field 4 sq.km. in the north
- Central Middle Camp Ellipse, 550m x 500m
- 7km arc of air photo & TMI "bullseyes" with 14 tourmaline breccias ± porphyries



Middle Camp Ellipse

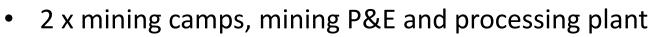


- Central low TMI low
- Elliptical air photograph structure
- Semi-circular halo of eluvial coarse gold & strong outcrop anomalous pattern
- Outer rim skarn quartz + sericite + tourmaline



Eluvial Mining Area, Mining P & E

 +1 square kilometre of rehabilitated surface workings mainly by previous lessee







White's Hill





- Autobrecciated Rhyolite
- Matrix infill + tourmaline + sulphides + gold

<u>Tourmalina</u>

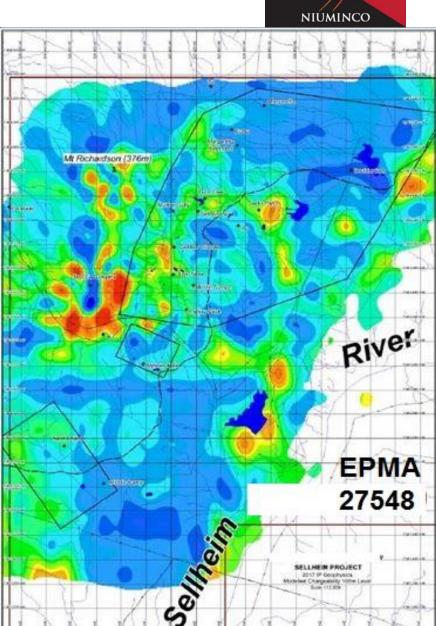
- Quartz + tourmaline + gossan/sulphide breccia
- ± rhyolite / porphyry / microgranite ± GOLD





<u>2013, 2016 & 2017</u> <u>IP data merge</u>

- Used same IP gear
- Same Consultant –
 Steve Collins
- Breccia Complex Chargeability "doughnut"
- Middle Camp Ellipse outer halo





1990 - 2018 DRILLING HISTORY



- 108 drill holes (56 Pre-Nedex, 52 Nedex JV)
- 2115m Open hole percussion
- 6014m Reverse Circulation percussion
- 5366m PQ, HQ, NQ coring
- Broad scatter of anomalous Au and Cu (344 > 0.1g/t Au, 133 > 0.3g/t Au, 33 > 1.0g/t Au)
- Highly stockworked porphyries on ellipse rim
- Middle Camp A <u>gold-bearing rhyolite</u> porphyry "finger" defined 2018

2019 JV CONCLUSIONS



- HQ coring focused mainly on IP Chargeability anomalies & Geochemical anomalies.
- Most of these geophysical / geochemical anomalies were found to relate to sheared sulphides within a zone of shallow-dip thrusting.
- Thrusting developed along unconformable interface between basal permiable conglomerate & sandstone of Cycle 1 Drummond and underlying folded Ukalunda Formation.
- Inferred source of sulphides from down-plunge porphyry-type mineralisation below thrust

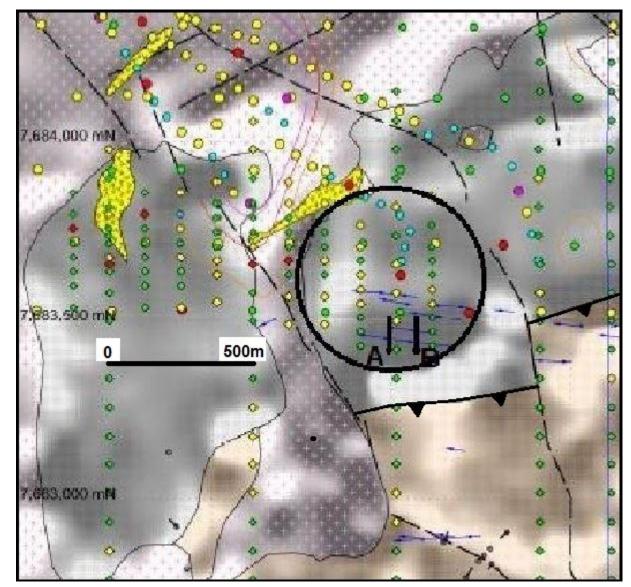


- Targets below thrust structure on Tourmalina, Middle Camp Ellipse (500m x 550m), & Agnew's Breccia Complex
- Only 2 previous holes into target rim intersected porphyry "fingers" with stockwork of endoskarn with inner propylitic retrograde overprint.
- 2023/4 target deeper (?) potassic zone on larger rhyolite porphyry intrusive (see documented models e.g. Gustafson and Hunt 1975)
- Tourmalina Multiple linear gold-bearing quartz
 + tourmaline + gossan + rhyolite porphyry clasts
 breccia initial 2 DDHs for 400 m of drilling.

TOURMALINA PORPHYRY BRECCIA

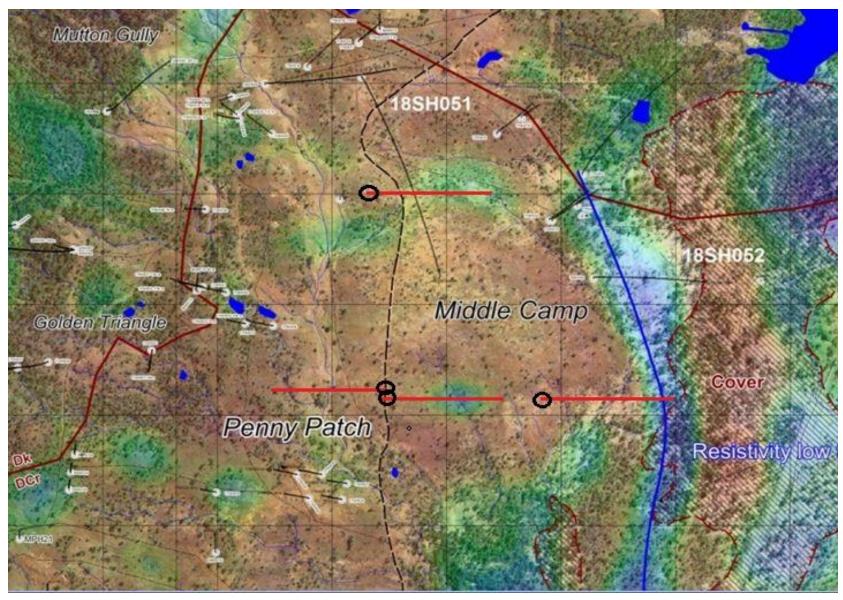


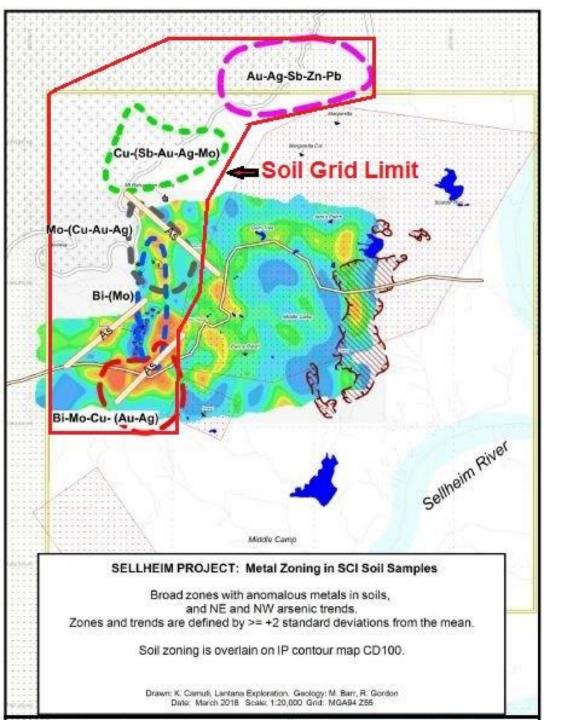
- Quartz + tourmaline + gossan breccia
- Several (yellow) porphyry plugs
- Large IP Chargeability anomaly
- Gold in soils & visible
- 2 drillholes planned (A, B)
- Below thrust



Middle Camp Ellipse Rim & Resistivity Lows







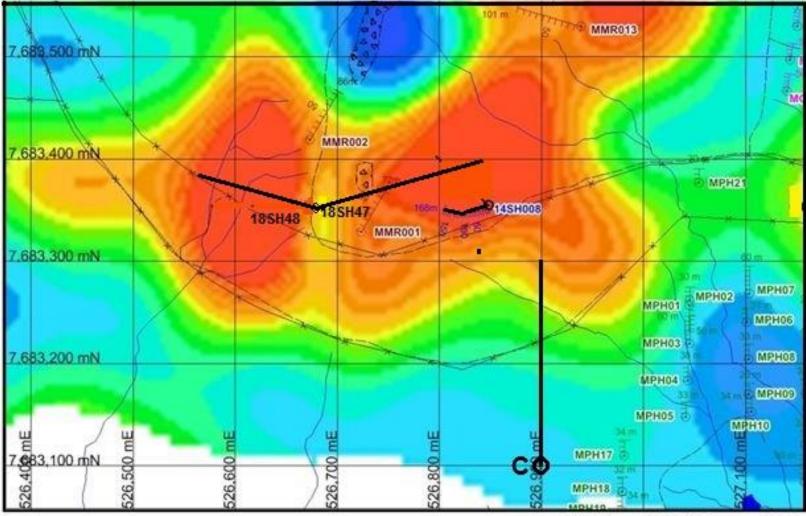


Agnew's Area south of Breccia Complex. Strong IP Chargeability. Geochemical strong soils Au Bi Mo Cu Ag pathfinders

AGNEW'S PORPHYRY TARGET



• IP targeted 18SH047, 048 had SE plunge thrust sulphidic veins indicating deep towards Agnew's



2017 IP Survey, 100m D

SELLHEIM SUMMARY



- Mt Richardson Middle Camp Breccia Complex 4 sq.km. skarn, propylitic, phyllic alteration zone
- Porphyry, Skarn, Breccia, Thrust, Epithermal vein
- Multiphase Age range 360Ma (Bimurra Volcanics) to 310Ma (Bulgonunna Volcanics).
- Middle Camp Ellipse Low TMI / remote sensed elliptical structure, with IP halo
- Recessive halo of eluvial coarse to nuggety gold, with IP chargeability & high gold rock chips
- Prominent 7km arcuate rim Phyllic alteration, 14 tourmaline breccias & porphyry "fingers"
- Target Middle Camp Ellipse, Agnews, Tourmalina

Highly Prospective Projects – Aust, NZ, PNG



Highly Prospective Projects in PNG, Australia and New Zealand

- Niuminco has now focused its PNG operations on its Edie Creek gold & silver mine.
- In Australia, a 90% interest in the three MLs at Chillagoe in Far North Queensland and a 100% interest in the Sellheim Project, QLD – both highly prospective for gold and copper.
- In New Zealand acquiring 100% interest in the **Ophir Gold Project in the Otago Goldfields**
- Potential to Grow Gold and Silver Production
 - Niuminco has steadily increased both its mining and processing capacity at its Edie Creek Mine over the past decade. This increase in capacity has given Niuminco the flexibility to significantly increase gold and silver production at the Edie Creek Mine through high-grade, low-volume mining & processing or low-grade, higher-volume mining & processing. A 10year renewal of the mining lease was granted in July 2022.
 - Development of the Ophir Gold project in NZ 10-year mining permit, surrounding 5-year exploration permit and +100k oz Au potential with much exploration upside.

Significant Near-Term Exploration Upside

- Niuminco will continue drill-testing at its Edie Creek mine for extensions of known vein and lode systems, as well as identified, bulk tonnage and new exploration targets. Edie Creek's 2023/4 drill program is designed to both source feed for the processing plant and to delineate a maiden JORC 2012 Resource.
- Drilling on the Chillagoe, Sellheim and Ophir Gold Projects.

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