

Image - Maiden Munarra Gully Project RC Drilling which identified a New Significant Copper-Gold Discovery in 2018

## Why Invest in Rumble?



## Clear Strategy

- \* Generating a pipeline of quality high grade base and precious metal projects at various stages of development
- \* Critically reviewing against stringent criteria
- \* Negotiate low cost upfront optionality
- \* Systematically explore multiple projects to drill test for high grade world class discoveries

## Discovery History

#### Technical director Brett Keillor

- \* Discovered 7 significant deposits world wide that turned into mines
- \* Twice AMEC Award "Prospector Of The Year", for the Plutonic and Tropicana discoveries
- \* Thirty years of identifying company making projects with majors Resolute and IGO
- \* First 2 drill programs with Rumble identified base metal & coppergold discoveries

## Fully Funded

## The company is in a strong cash position

- \* Fully funded with \$2.9mil in bank to fast track exploration
- \* All projects acquired are low cost exploration to test for discovery
- \* Funded for potential new project acquisitions

## Near Term Catalysts

Highly leveraged to exploration success with multiple near term catalysts to have a significant re-rating

- \* Follow up drilling at Braeside high grade zinc-Lead discoveries and new large scale Cu-Au Targets
- \* Follow up drilling at Munarra Gully coppergold discovery
- \* Advancing 4 additional quality projects to be drill tested

## **Rumble Achievements and Outlook**

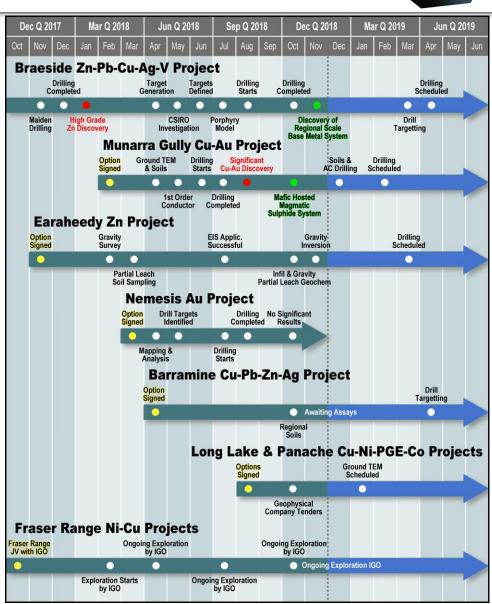


#### Since Last October 2017

- Raised \$5mil November 2017
- Optioned 6 new projects
- Advanced all 6 towards drilling
- 3 Fraser Range projects JV'd with IGO
- 2 discoveries
- 2 mineralised systems

#### **December 2018 into 2019**

- 3 projects drill programs scheduled
- 6 projects drill targeting
- Fraser Range JV ongoing exploration



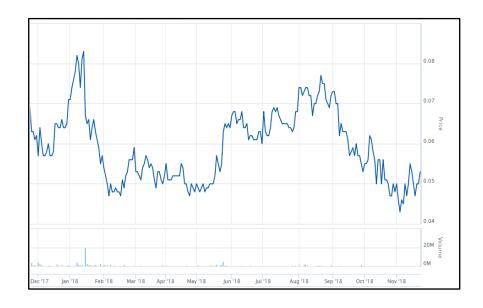
## **Corporate Overview**



Capital Structure		
Shares on Issue	#	357m
Options on Issue 1 2&3	#	25.6M
Cash 4 &5	A\$	\$2.9m
Market Cap	A\$	\$18m

- 10.5mil 8c options (various expiry)
- 2. 4mil 3c Options (8 September 2020)
- 3. 11.1mil 15c Options (29 November 2019)
- 4. As reported in September 2018 Quarterly
- Rumble is expecting additional \$580k R&D return in December quarter

Ownership Analysis	
Board and Management	10.2%
Top 20	38%



Board & Management		
Shane Sikora	Managing Director	
Brett Keillor	Technical Director	
Matthew Banks	Non-Executive Director	
Michael Smith	Non-Executive Director	

## **Pipeline of Projects**



#### Braeside Zn-Pb-Cu-Ag -V Project

- · 2 High Grade zinc and Lead discoveries
- Targets:

Regional scale porphyry to epithermal mineralised system

Large Cu-Au disseminated porphyry deposits along with high grade base metal vein/breccia pipe and epithermal Pb-Zn-Aq-In+/- Au deposits

#### **Barramine Cu-Pb-Zn-Ag Project**

- Rock Chips up to 25.32% Cu, 279 g/t Ag, 6% Pb and 1.8% Zn
- Target: Northern Extension of Braeside

#### Lamil Cu-Au Project

- Strategic applications between Telfer Gold Mine (Newcrest) and Nifty Copper Mine (Metals X)
- Target: Stratiform base metal and Telfer Cu-Au deposit types.

#### 120°E 125°E 115°E 15°S RUMBLE Broome o Barramine Port Hedland Project -20°S Braeside Lamil Project Project Newman of Western Australia Earaheedy 25°S Project ' Wiluna Meekatharra Munarra Gully **Project** Fraser Range Project Geraldton Leonora 30°S Kalgoorlie Perth c Esperance 35°S Albany 500km

# Canada Ontario Timmins Ouebec Timmins Ouebec Long Lake and Panache Projects Sudbury Toronto 0 500km

#### Munarra Gully Cu-Au Project

- New Significant Cu-Au Discovery 22m @ 1% Cu from 29m coincident with 19m @ 2.19 g/t Au from 33m
- Target:

Multiple copper-gold bearing mafic (norite) intrusions.

#### **Earaheedy Zn Project**

- Historical drilling zinc up to 18.6% within an intersection 3.3m @ 11.2% Zn, and 0.93% Pb from 150m
- Target:

Flat lying MVT high grade Zn-Pb deposits.

#### Fraser Range Ni-Cu Project

- JV with major Independence Group NL (ASX: IGO)
  - Target:
- Massive Ni-Cu type deposits

#### Long Lake Au-Cu-Ni-PGM Project

- Fieldwork has highlighted Sudbury Breccia and quartz diorite (known host for Sudbury Basin deposits) occurrences over several km of strike.
- Target:

Blind Sudbury "Offset Dyke" style massive Ni - Cu - PGM type deposits

#### Panache Co-Ni-Co-Au-PGM Project

- Rock chips up to 1.1% Co, 6.01% Cu, 1.47%, Ni, 3.5 g/t Pgm and 524 g/t Au
- Target:

High order base metal with PGM surface anomalism inferred to be potential feeders to gabbroic intrusions

### Braeside Zn-Pb-Cu-Ag-Au-V - Flagship Project - East Pilbara



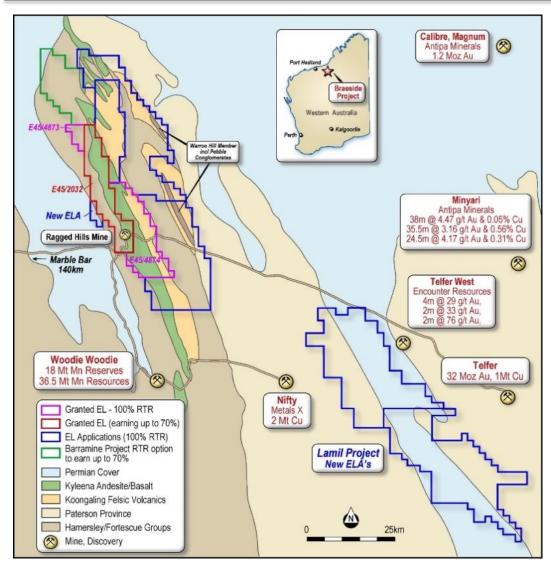
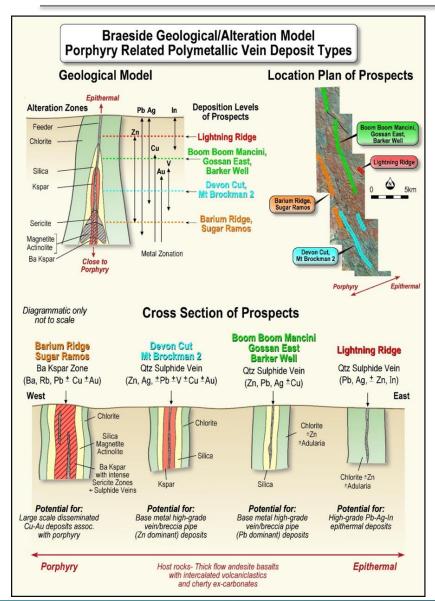


Image: Braeside Project Location, Regional Geology and Tenement Status

- Braeside Project area is over 1000 km<sup>2</sup>
- 34km of mineralised strike and up to 6km wide
- Hosted many historic high grade base metal small-scale mines that produced lead, zinc and silver 1901 to 1959
- Prior to Rumble acquisition Braeside had no modern exploration
- Region hosts multiple world class ore bodies
- Excellent all purpose roads to Port Hedland Port
- First 2 drill programs discovered high grade zinc and lead mineralisation
- Discovered a Regional Scale Porphyry to Epithermal System to surface – Very Rare
- Identified system has camp-scale potential for multiple deposit types -Uncommon

## Regional Scale Porphyry to Epithermal System





- · Four mineralised alteration zones have been discovered over 35km by 6km
- The zones represent a regional scale porphyry to epithermal mineralised system with camp-scale potential for multiple deposit types

#### Lightning Ridge - East Mineralised Zone

Target: Multiple vein high-grade Pb-Ag-In epithermal/epizonal deposits with Cu - Zn

- The zone represents the highest deposition level discovered to date.
- The northwest trending vein/feeder is dominantly Pb-Ag mineralization with high grade indium
- Alteration is pervasive chlorite with low level sphalerite and red-orange adularia veinlets

#### Boom Boom Mancini/Gossan East/Barker Well - Central Mineralised Zone

Target: High-grade base metal (Pb dominant) sulphide – silica veins/breccia pipes deposits Strike: Zone extends over 15km and is open north into Rumbles Barramine JV

- The zone represents the next deposition level below Lightning Ridge
- Quartz sulphide vein sets typically have a silica halo, rarely feldspar-sericite with a strongly developed broad chlorite – Zn enriched haloes and adularia veinlets.
- Mineralisation is Pb Zn dominant. Later overprinting deformation (shear zones and faults) often develops Cu with minor Ag and Au.

#### Devon Cut – Mt Brockman 2 – Central Mineralised Zone

Target: High-grade base metal (Zn dominant) sulphide – silica veins/breccia pipes deposits Strike: Zone occurs as three separate vein sets over 20km.

- The zone represents a lower deposition level to above.
- Silica sulphide fracture/feeder/vein zones are associated with pervasive sub-alkalic feldspar silica
   – sericite alteration with generally broad chlorite haloes often with elevated Zn.
- Mineralisation is dominant Zn Pb. Cu is often associated with later overprint.
- Lower order Au and Ag occurs with the higher-grade base metal zones. Vanadium (vanadate) has
  developed in some areas.

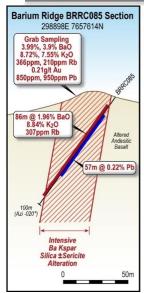
#### Barium Ridge - Sugar Ramos - West Mineralised Zone

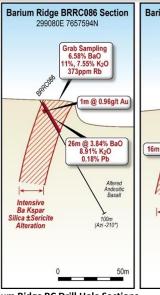
Target: Large scale disseminated Cu – Au deposits associated with underlying porphyry Strike: Zone extends over 14km.

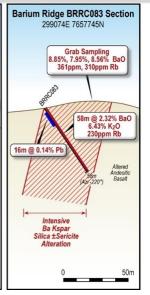
- The zone represents lowest deposition level to date.
- Wide pervasive zones of Ba Kspar with silica zones and strong chloritisation of the wall-rocks have ubiquitous low order Pb mineralization along with anomalous Rb (rubidium).
- At Barium Ridge, the alteration has completely replaced the andesitic basalt host rocks with anomalous Au (0.96 g/t) and within the alteration zones, pyrite-silica zones are present.
- The Sugar Ramos area is considered very significant as magnetite actinolite has been defined with zones of elevated copper (chalcopyrite) and gold. Central to the core of the broad alteration halo, intense sericite zones are present, potentially indicating higher temperature acidic fluid pathways have developed above a porphyry intrusion.

## **Barium Ridge & Sugar Ramos Zone**









**Target:** Large scale disseminated Cu – Au deposits associated with underlying porphyry

**Strike:** Extends over 14km – Completely Open

#### **Barium Ridge Prospect – New Discovery**

- \*58m @ 2.32% BaO, 6.43% K2O, 230ppm Rb from surface to EOH (BRRC083)
   Including 16m @ 0.14% Pb from 4m
- \*86m @ 1.96% BaO, 8.84% K2O, 307ppm Rb from 8m (BRRC085 down-dip)
   Including 57m @ 0.22% Pb from 16m.
- \*26m @ 3.84% BaO, 8.91% K2O, 0.18% Pb, 373ppm Rb from 4m (BRRC086)
   Including 1m @ 0.96 g/t Au from 9m.
- intercept width 0.5% BaO cutoff 0.1% Pb cutoff used to indicate alteration halo
- Wide intensely barium potassium feldspar zones with elevated copper, gold and lead along with magnetite-actinolite mineralisation are indicative of a proximal fertile mineralised porphyry.

#### Image. Barium Ridge RC Drill Hole Sections

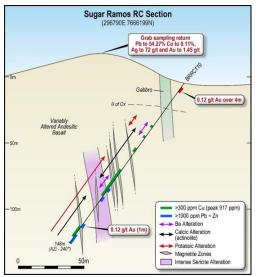


Image: Sugar Ramos Prospect RC Section - Alteration

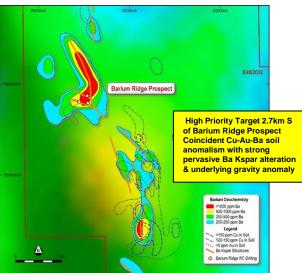


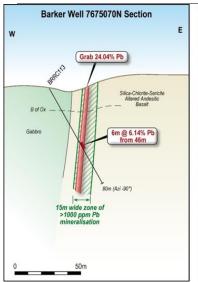
Image - Barium Ridge High Priority Target

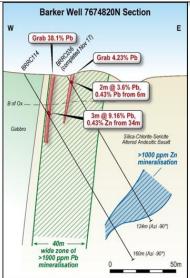
#### **Sugar Ramos Prospect**

- The Sugar Ramos Prospect lies within the barium corridor and located 9km NNW of Barium Ridge.
- Very significant alteration with elevated copper and gold has been outlined in a single RC drill hole designed to tested high grade base metal grab sampling of a large altered northwest trending at Sugar Ramos. Grab sampling returned up to 54.27% Pb, 72 g/t Ag and 1.45 g/t Au.
- Alteration indicative of an underlying porphyry system
  was intercepted with zones of intense sericite, Kspar and
  Ba Kspar. Magnetite and actinolite (calcic) alteration were
  encountered along with broad zones of elevated copper
  (chalcopyrite) with the peak value at 970ppm. Elevated Au
  (to 0.12 g/t) and minor Pb Zn were also associated with
  the alteration.

#### **Barker Well & Gossan East Zone**







**Target:** High-grade base metal (Pb dominant) sulphide – silica veins/breccia pipes deposits

**Strike:** Extends over 15km from Gossan East to Barker Well & open north into Rumbles Barramine IV.

#### Barker Well Prospect –High-Grade Discovery over 500m of strike (open)

- 6m @ 6.16% Pb from 46m.
- 3m @ 9.16% Pb, 0.43% Zn from 34m.
- 105m @ 0.78% Pb + Zn very wide zones of alteration indicative a large base metal system
- multiple galena-sphalerite zones associated with broad zones of pervasive silica chlorite – sericite alteration in undeformed andesitic basalts and minor intercalated volcaniclastics.

Image: Barker Well Prospect RC Drill Sections

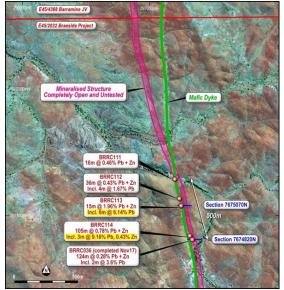
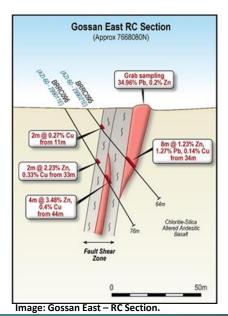


Image: Barker Well Drill Hole and Prospectivity Plan



#### **Gossan East Prospect**

- 8m @ 1.23% Zn, 1.27% Pb, 0.14% Cu from 34m (BRRC095)
- 4m @ 3.48% Zn, 0.4% Cu from 44m (BRRC096)
   \*Intercept width
- Pb-Zn-Cu mineralization associated with flat lying andesitic basalts
- Alteration was intense chlorite silica with the mineralization consisting of stringer to semi-massive galena-sphalerite-silica with minor chalcopyrite.
- The structure is open to the north towards Barker Well

## **Lightning Ridge & Mt Brockman 2 Zone**



#### **Lightning Ridge – Eastern**

**Target:** Multiple vein high-grade Pb-Ag-In epithermal/epizonal deposits with Cu – Zn.

**Strike:** Galena (Pb) – silver +/- zinc mineralization with a later copper overprint is associated with a sub-vertical northwest striking sulphide - silica vein over 220m.

#### **Lightning Ridge Prospect - New Discovery**

- 4m @ 6.35% Pb, 14.7 g/t Ag from 35m (BRRC104)
- 4m @ 5.42% Pb, 0.45% Zn, 19.7 g/t Ag from 53m (BRRC106)
   \*Intercept width only 0.5% base metal cutoff.
- Pervasive low-grade Zn replacement haloes/fronts within the siltstone is indicative of the main mineralized vein/feeder being a similar age to the host rocks.
- Alteration is chloritisation (in places intense) of the wall-rock with pervasive low order zinc mineralization and veinlets of adularia. The width of alteration up to 50m with elevated Zn (BRRC106 – inclined depth 70m averaged 750ppm Zn). Depth of weathering was approximately 15-20m.

#### **Devon Cut – Mt Brockman 2 – Central**

**Target:** High-grade base metal (Zn dominant) sulphide – silica veins/breccia pipes deposits

Strike: Occurs as three separate vein sets over 20km.

#### Mt Brockman Prospect

- Strong feldspar-silica-sericite alteration returned: 2m @ 3.3%Zn, 0.52%Pb, 0.7% Cu from 16m (BRRC079).
- Mineralisation is open to the north Recent CSIRO study generated high order spectral targets in this region

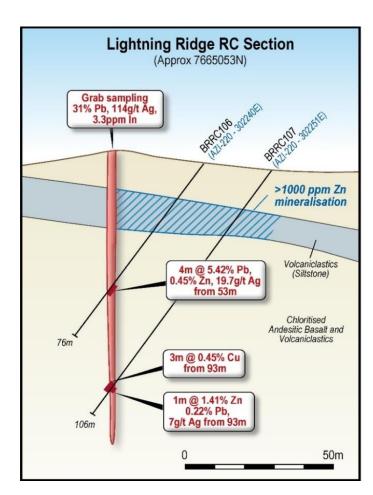


Image: Lightning Ridge - RC Section.

## Fastrack next round of Drilling 2019



#### **Lightning Ridge – Eastern Zone**

Target: Multiple vein high-grade Pb-Ag-In epithermal/epizonal deposits with Cu – Zn.

- Detailed surface geochemistry along interpreted vein systems (structure mapping)
- RC drilling

#### Gossan East/Barker Well - Central Zone

Target: High-grade base metal (Pb dominant) sulphide – silica veins/breccia pipes deposits

- Detailed geochemistry at Barker Well north along strike into the Barramine JV and between Gossan East and Barker Well
- Structural mapping to highlight high priority targets
- RC drilling
- Diamond drilling

#### **Devon Cut – Mt Brockman 2 – Central Zone**

Target: High-grade base metal (Zn dominant) sulphide – silica veins/breccia pipes deposits

- Follow up geochemistry at high order spectral targets generated from the recent CSIRO study
- Structural mapping to highlight targets.
- RC drilling

#### Barium Ridge – Sugar Ramos – Western Zone

Target: Large scale disseminated Cu – Au deposits associated with underlying porphyry

- Detailed geochemistry infill to highlight co-incident Ba Cu Au anomalism
- Complete detailed magnetic survey to highlight zones of magnetite associated with potential mineralised intrusions.
- Conduct geophysics (IP) over targets generated
- Diamond drill test targets

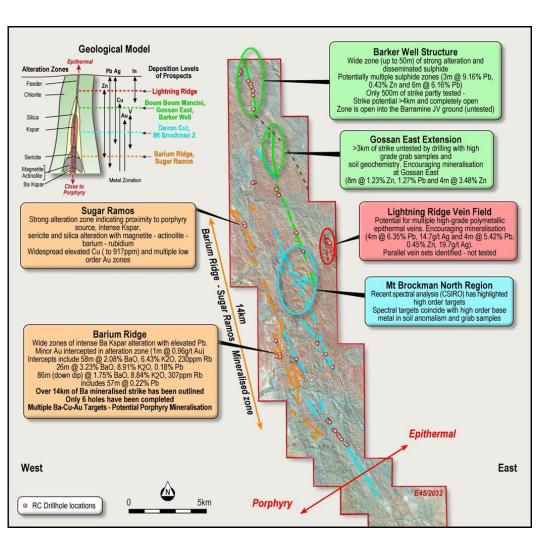


Image 13. Braeside Prospectivity and Proposed Exploration Targets 2019

## **Barramine Cu-Pb-Zn-Ag Project - East Pilbara**



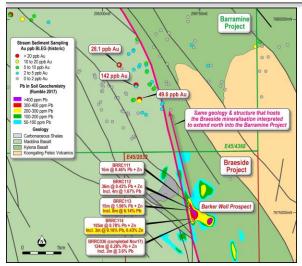


Image: Mineralised Structure from Braeside Project - Au in Stream Sediment Anomalism

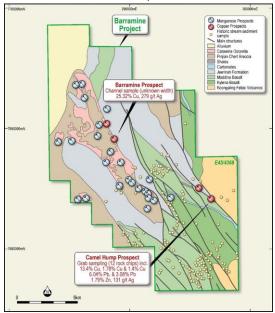


Image: Barramine Project - Geology and Prospect Location Plan

#### Exploration target(s) - Northern Extension to Braeside

- Large scale disseminated Cu − Au deposits associated with underlying porphyry
- High-grade base metal sulphide silica veins/breccia pipes deposits
- Multiple vein high-grade Pb-Ag-In epithermal/epizonal deposits with Cu Zn.

#### **About Project**

- Rumble has the option to acquire 70% of E45/4368
- High-grade Cu, Pb, Zn and Ag prosp`ects have not been tested by drilling or modern exploration with Rock Chips up to 25.32% copper, 279 g/t silver, 6% lead and 1.8% zinc
- The same geology and structure that hosts the Braeside Project mineralisation interpreted to extend north into the Barramine Project

#### **Regional Soil Geochemistry**

- Regional soil sampling on a staggered 400m by 400m pattern with areas of 200m infill has been completed
- A total of 286 samples were collected and submitted for multi-element analysis.

#### **Next Steps**

- Final results and interpretation pending for soil sampling
- Drill Targeting

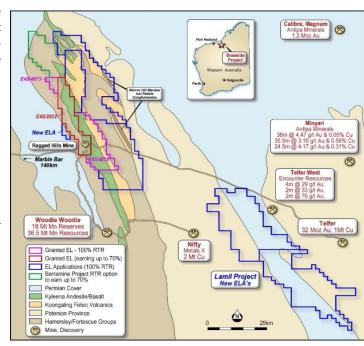


Image: Braeside, Barramine & Lamil Projects Location, Tenure and Regional Geology Plan

## **Lamil Cu-Au Project – Paterson Province**



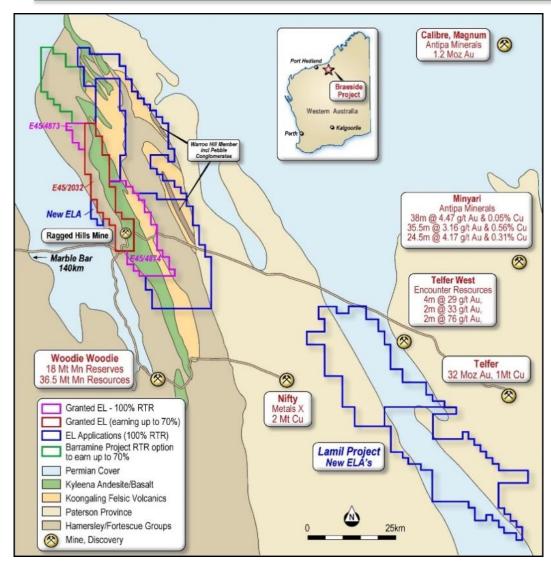


Image: Braeside and Lamil Projects Location, Tenure and Regional Geology Plan

#### **Exploration target(s):**

Stratiform base metal and Telfer Cu-Au deposit types.

#### **About Project**

- Strategic exploration 100% license applications over the highly prospective Paterson Province terrane located between the major mining operations of the large Telfer Gold Mine owned by Newcrest and the Nifty Copper Mine owned by Metals X Limited.
- The applications cover an area of 1375km²
- The highly mineralised Paterson Province region has recently been subject to extensive exploration from various groups targeting large scale stratiform Cu, sediment hosted Zn-Pb, potential iron oxide copper gold (IOCG) and sediment hosted vein copper - gold Telfer Style deposits.
- With the addition of the Lamil Project, Rumble has extended its footprint to over 2400km2 in the highly prospective east Pilbara/Paterson region.

#### **Next Steps**

- Finalise review of historical exploration
- Commence strategic targeting

## Munarra Gully Cu-Au Project - Cue, Murchison



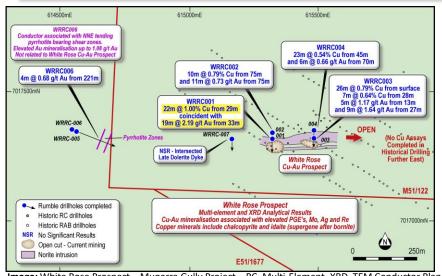


Image: White Rose Prospect - Munarra Gully Project - RC, Multi-Element, XRD, TEM Conductor Plan

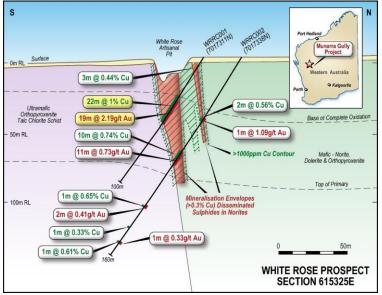


Image: RC Drill section 615325E - White Rose Prospect

#### **Exploration target(s)**

Multiple copper-gold bearing mafic (norite) intrusions.

#### **About Project**

The Munarra Gully project is located some 50km NNE of the town of Cue within the Murchison Goldfields – Rumble has option to earn 80% of E51-1677 and M51-122

#### Maiden RC Drill Program - New Significant Cu-Au Discovery

- Four RC drill-holes returned significant copper-gold mineralisation from a fine to medium grain intrusive pyroxenite (norite) at the White Rose Prospect
- Results included: 22m @ 1% Cu from 29m coincident with 19m @ 2.19 g/t
   Au from 33m. Maximum Cu was 2.66% (40-41m). Maximum Au was 11.56
   g/t (49-50m).
- Multi-element geochemistry results confirmed elevated platinum/palladium (PGM's) with the copper-gold mineralisation discovered at the White Rose prospect: Pt + Pd (to 96ppb), Ag (to 11.4 g/t), Mo (to 116ppm) and Re (0.28ppm). Low level elevated element associations also noted include Co, Se and REE's.
- XRD (X-ray Diffraction) completed on copper gold mineralised samples which highlighted idaite (supergene mineral after bornite) and chalcopyrite as the dominant copper minerals in the transitional zone.

#### **White Rose Potential**

The White Rose Prospect has been **defined over 160m in strike and is** completely open along strike and at depth.

## **Munarra Gully - Potential New Province**



#### Lag Sampling highlights Mafic Hosted Cu-Au Sulphide Potential

- Over 8km of strike potential coinciding with a partly buried strong magnetic anomaly which has been inferred as the same host – orthopyroxenite.
- Lag (soil) sampling along the inferred mafic/ultramafic lithological horizon highlighted significant copper, nickel anomalism over 3.5km - Copper returned up to 721 ppm in lag, nickel to 1800 ppm and Au to 72 ppb
- Strongly anomalous Cu Au grab sampling (Cu to 0.28% and Au to 2.11 g/t no previous exploration or workings).

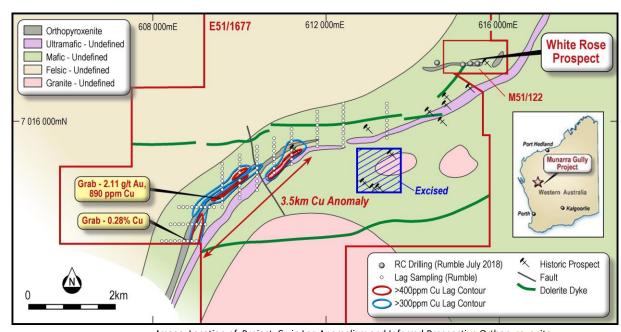


Image: Location of Project, Cu in Lag Anomalism and Inferred Prospective Orthopyroxenite

#### Style of Mineralisation - Mafic Hosted Magmatic Sulphide System

- The style of mineralisation appears to be magmatic and is atypical with respect to mineralised mafic intrusive systems due to high Cu:Ni ratios, high Au and Ag, low S, PGM's and various elevated other elements that suggest strong melt contamination.
- The likely style is similar to known large copper rich mafic intrusive (ortho-pyroxenite) deposits in Brazil (Caraiba mining district 96Mt @1.82% Cu reserve and production) and South Africa (Okiep mining district Koperberg 94Mt @ 1.75% Cu historic production). Gold, silver and PGM's are associated with the copper deposits.

#### **Next Steps**

- White Rose Prospect: Aircore drilling program for strike extension of mineralised zone to generate drill targets for deeper RC drilling
- E51-1677 Lag and grab sampling to cover the full 8km of strike potential to generate drill targets

## **Earaheedy Zinc Project - Wiluna**



#### **Exploration Target**

Flat lying MVT (Mississippi Valley Type) carbonate hosted high grade Zn-Pb deposits and associated higher angle Zn-Pb fault breccias.

#### **About Project**

- Rumble has the option to acquire 75% of the Earaheedy Project E69/3464 and 100% of E69/3543 located approximately 110km north of Wiluna, WA,
- Historical drilling intercepted high-grade zinc up to 18.6% within an intersection 3.3m @ 11.2% Zn, and 0.93% Pb from 150m.
- Broad spaced drilling in the 1990's defined primary Zn-Pb mineralisation (zinc dominant) associated with a flat lying to shallow northeast dipping laterally continuous dolomite horizon with over **20 kilometres strike**

#### **Rumble Systematic Exploration Completed**

- Gravity surveys down to 100m by 100m and 200m by 100m stations have been completed - In total, 1080 gravity stations cover two areas (total of 24km²) with the focus on the Navajoh, Magazine and Chinook Zn-Pb Prospects.
- A total of **372** partial leach samples on a 200m by 200m spacing over the Navajoh and Magazine Prospects.
- The geochemistry highlighted the contact position between the underlying carbonate sediments (Navajoh Dolomite Member – Yelma Formation)) and the overlying iron rich sediments of the Frere Formation.
- A strong base metal halo has developed along the contact

#### **Next Steps**

- Gravity inversion modelling is planned to aid in optimising better drill targetting
- RC/Diamond drilling EIS funding grant up to \$100,750

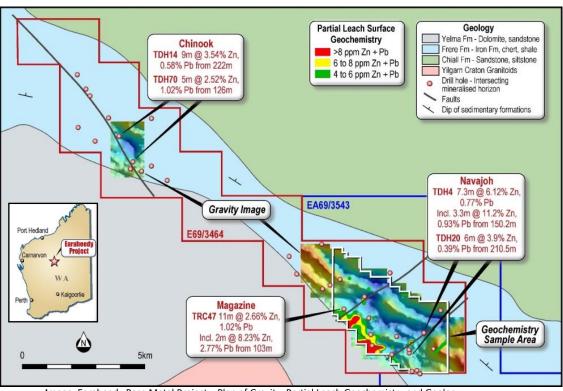


Image: Earaheedy Base Metal Project – Plan of Gravity, Partial Leach Geochemistry and Geology.

## **Fraser Range Ni-Cu Projects**



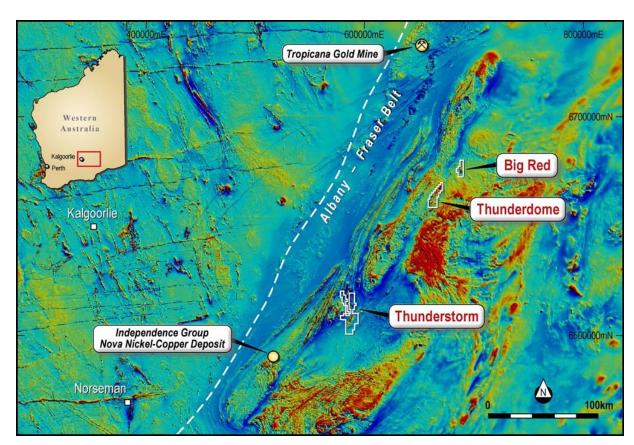


Image: Fraser Range Project Location, Regional Geology and Tenement Status

#### **Exploration target(s)**

• Target massive Ni – Cu sulphide deposits

#### **About Project**

- Joint Venture Agreement signed with leading base metal and gold miner Independence Group NL (ASX: IGO) on Rumble's highly prospective Fraser Range Projects in Western Australia
- IGO to earn 70% equity in Rumble's 100% owned Fraser Range Project by spending \$1.5m on exploration
- Rumble to be free-carried through to completion of a Pre-Feasibility Study on any of the Fraser Range tenements
- Rumble to benefit from IGO's extensive expertise as the dominant regional player in the Fraser Range

#### **Next Steps**

IGO has actively been exploring on all 3 of the projects

# Long Lake & Panache Cu-Ni-PGE-Co Projects – Sudbury, Canada

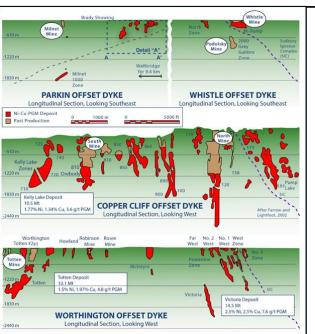


#### **Exploration target(s)**

- Long Lake –Target blind Sudbury "Offset Dyke" massive Ni–Cu–PGM type deposits
- Panache Target potential feeders to gabbroic intrusions

#### The Copper Cliff Offset Dyke System

- The Copper Cliff South and Copper Cliff North mine have some 200 million tonnes of ore. Vale Limited's Clarabelle mill, smelter and nickel refinery are all located close to the Copper Cliff Offset dyke.
- The southernmost deposit discovered to date is at Kelly Lake with a reserve of 10.5 Mt @ 1.77% Ni, 1.34% Cu and 3.6 g/t PGM. Note: IGO's Nova Bollinger Deposit in Fraser Range, WA has a reserve of 13.3 Mt @ 2.06% Ni and 0.83% Cu (2017). The Long Lake Project lies some 10km SW of the Kelly Lake Ni-Cu-PGM deposit inferred to be the faulted southern extension of the 'Copper Cliff Offset Dyke'



#### **Examples of Offset Dyke Deposits**

Very significant high value deposits occur as clusters along Offset Dykes and are often blind.

#### **Copper Cliff Offset Dyke Deposits**

The Kelly Lake Deposit was discovered below a smaller near surface deposit by downhole TEM in 1997 & defined in 2006.

#### **Worthington Offset Dyke Deposits**

**The Totten Deposit,** which is a similar size to the Kelly Lake Deposit, was discovered in **1999** by Inco.

The Victoria Deposit (over 1km deep) was defined by Quadra FNX in 2012 with a reserve of 14.5Mt @ 2.5% Ni, 2.5% Cu and 7.6 g/t PGM.

#### **About Sudbury Mining Camp, Ontario Canada**

- Since 1883, the Sudbury Mining Field has been the second-largest supplier of nickel ore in the world with over 1.7 billion tonnes of past production, reserves and resources.
- Ni-Cu and PGM bearing sulphide minerals occur in a 60 km by 27 km elliptical igneous body called the Sudbury Igneous Complex ("SIC").
   The current model infers the SIC was formed some 1,844 million years ago after sheet-like flash/impact melting of nickel and copper bearing rocks by a meteorite impact.
- Mineralization occurs within the SIC as well as in the neighbouring country rocks in close association with breccias and so-called 'Offset Dykes'. Nearly half of the nickel ore at Sudbury occurs in breccias and Offset Dykes in the footwall rocks of the SIC.

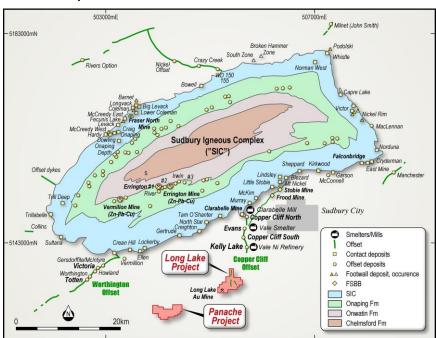


Image - Location of the Long Lake and Panache Projects and the Deposit Types of the Sudbury Basin.

# Long Lake & Panache Cu-Ni-PGE-Co Projects - Sudbury, Canada



#### About Long Lake Au-Cu-Ni-PGM Project

- Fieldwork (including a single shallow diamond drill-hole of anomaly 19)
  has highlighted Sudbury Breccia and quartz diorite (known host for
  Sudbury Basin deposits) occurrences over 4km's km of strike.
- The occurrence is inferred to be the faulted southern extension of the 'Copper Cliff Offset Dyke' system that has been moved west by later regional faults - some 10km SW of the Kelly Lake Ni-Cu-PGM deposit

#### About Panache Co-Ni-Cu-Au-PGM Project

**Potential mineralised feeder dykes** associated with layered gabbroic intrusions (Nipissing Age – not related to the Sudbury basin) identified by mapping and surface geochemistry generating 3 target areas:

- Area A Prospecting exposed a set of massive sulphide pipes. Rock chips up to: 6.01% Cu, 1.47% Ni, 1.6 g/t PGM and 0.49% Co
- Area B Trenching & grab sampling identified strong base metal & PGM mineralisation along the basal zone to a gabbro intrusion. Wide widths of gossans were exposed. Grab sampling up to: 1.61% Cu, 0.49% Ni, 1.1% Co, 1.64 g/t Au, 1.64 g/t Pt & 1.58 g/t Pd.
- Area C Grab sampling & petrography identified a 2.5km zone of strong base metal and precious metal anomalism associated with an inferred gabbroic feeder. Grab sampling up to: 0.59% Cu, 0.16% Ni, 524.3 g/t Au, 0.45% Co, 0.64 g/t Pt, 1.18 g/t Pd.

#### **Next Steps**

- Long Lake Project: A deep penetrating ground TEM survey scheduled to test a VTEM conductor & outcropping Sudbury Breccia at anomaly 19 with the aim of generating high order conductors for subsequent diamond drill testing.
- Panache Project: A deep penetrating ground TEM survey has been planned to test the strong surface geochemistry intrusion at AREA B with the aim of generating high order conductors for subsequent diamond drill testing.

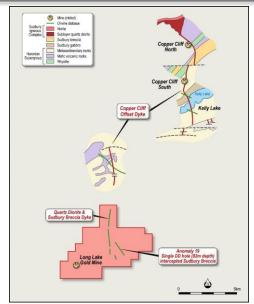


Image – Long Lake Project - Highlighting the Copper Cliff Offset Dyke and the Inferred Sudbury Breccia Dyke

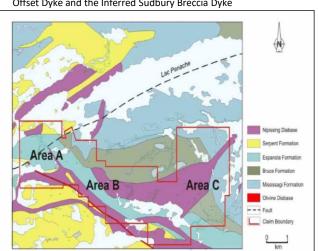


Image – Panache Project – Regional Geology and Target Area Location



Image - Long Lake Project - Anomaly 19



Image - Panache Project - Exposed Gossan Area B

## **Investment Summary**



- Generating and drill testing a pipeline of projects capable of high grade world class discoveries
- Successful Technical Director previously discovered 7 significant deposits worldwide
- Strong working capital with \$2.9mil cash at bank
- Low cost optionality to test for discovery
- Highly leveraged to exploration success

#### **Near term catalysts for significant re-rating:**

<ul><li>Scheduled - December 2018</li></ul>	Drill targeting Munarra Gully Copper – Gold Discovery
○ Scheduled - January 2019	Drill targeting Ground TEM Long lake & Panache Projects
○ Scheduled - February 2019	Follow up drill testing Munarra Gully Copper – Gold Discovery
○ Scheduled - March 2019	Drill testing Earaheedy Zinc Project
○ Scheduled - March 2019	Drill targeting Braeside Project
○ Scheduled - April 2019	Follow up drill testing Braeside Project
○ Scheduled - April 2019	Drill targeting Barramine project
<ul><li>○ Ongoing</li></ul>	IGO drill testing Fraser Range Nickel – Copper Projects

## **Contacts and Disclaimer**



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