

Multi-commodity explorer with a track record of commercialisation.

Disclaimer & Competent Person Statements



Competent Persons Declaration

The information in the report to which this statement is attached that relates to Exploration and Resource Results is based on information reviewed and/or compiled by Craig Riley who is deemed to be a Competent Person and is a Member of The Australasian Institute of Mining and Metallurgy.

Mr Riley has over 25 years' experience in the mineral and mining industry. Mr Riley is employed by Rimfire Pacific Mining (RIM) and is an employee of the Company. Craig Riley has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activity being undertaken 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'. Craig Riley consents to the inclusion of the matters based on the information in the form and context in which it appears.

Forward looking statements Disclaimer:

This document contains "forward looking statements" as defined or implied in common law and within the meaning of the Corporations Law. Such forward looking statements may include, without limitation, (1) estimates of future capital expenditure; (2) estimates of future cash costs; (3) statements regarding future exploration results and goals. Where the Company or any of its officers or Directors or representatives expresses an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and the Company or its officers or Directors or representatives as the case may be, believe to have a reasonable basis for implying such an expectation or belief. However, forward looking statements are subject to risks, uncertainties and other factors, which could cause actual results to differ materially from future results expressed, projected or implied by such forward looking statements. Such risks include, but are not limited to, commodity price fluctuation, currency fluctuation, political and operational risks, governmental regulations and judicial outcomes, financial markets and availability of key personnel. The Company does not undertake any obligation to publicly release revisions to any "forward looking statement", or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.



Highlights





Advancing 4 projects in the Lachlan Fold Belt (LFB), and 1 in Broken Hill, New South Wales. Exposure to Gold and green energy minerals including Copper, Cobalt, Platinum and Palladium (PGE's).



Located in proximity to proven resources. LFB Projects nearby mines include CMOC (Northparkes - Cu/Au), Alkane (Tomingley - Au) and Evolution (Cowal - Au) mines. Broken Hill Project along strike to Cobalt Blue's JORC Resource.



Two Earn-in agreements for up to \$12m of expenditure have been secured with Golden Plains Resources for the Fifield and Avondale Projects. Rimfire retains management and control of work programs.



Significant drill programs planned at Valley (Cu / Au) and Fifield (Au) Projects. Generative exploration programs at Cowal (Cu / Au), Avondale (Co / PGE) and Green View (Co) Projects.



The company is actively evaluating further potential exploration growth opportunities.



The Rimfire Discovery Team



Technical



Dr Peter Crowhurst • Geology Manager

Peter has over 25 years of exploration experience principally in the areas of project generation, field evaluation, project execution and structural geology.



Michael "Mick" Love • Technical Consultant

Mick was involved in the early exploration and development of the Northparkes Cu / Au porphyry, discovery of Lake Cowal Au and Dubbo Project (Rare Earths).



Colin Plumridge • Consulting Geologist

Colin joined the Company in 2004. Since that time, he has been instrumental in providing key scientific, geological and technical insights, including the discovery of Rimfire's Sorpresa deposit.



Paul Wright • Technical Consultant - Geology

Paul has over 30 years of exploration experience including at Cadia, where he was involved in the early exploration work that took Cadia East from a soil anomaly into a significant resource.

Management



Craig Riley • Managing Director & CEO

Craig joined Rimfire in 2018 as Business Development Manager and was appointed Chief Executive Officer in February 2019. He has more than 25 years' of industry experience with a successful track record of project appraisal and development.



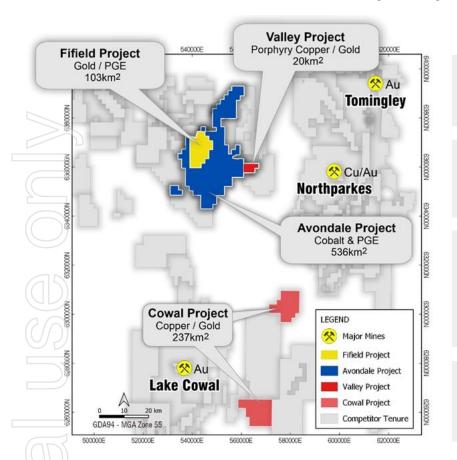
Greg Keane • Chief Financial Officer

Greg was appointed Rimfire's Chief Financial Officer in May 2017. As an experienced commercial and financial professional, Greg has had significant experience and exposure in defining and implementing operational, commercial and financial strategy. His career has involved hands-on management of resources companies accounting, information technology, human resources, logistics, supply and contracts and other support services functions, both within Australia and overseas.



Rimfire Lachlan Fold Belt (LFB) Project Overview





Valley Project (Porphyry Cu-Au) - 100% RIM

- Located adjacent to Kincora/RareX Mordialloc and Trundle Park Cu/Au Porphyry projects.
- Situated on the interpreted western boundary of Caldera that has been split by ~30km wide Tullamore syncline with Northparkes (Cu/Au porphyry) on eastern boundary.

Cowal Project (Cu-Au) - 100% RIM

- Located east of Evolution's Lake Cowal (Au) mine.
- On a major N-S structure that is parallel to Cowal gold mine controlling structure.
- Prospective bedrock covered by circa 100m of younger sediments.

Fifield Project (Au-PGE) – RIM Managed Earn-in with GPR

- Earn-in with Golden Plains Resource for \$4.5m to earn up to 50.1%.
- Rimfire costs for mine development "carried" with repayments from operating cashflow.
- Platina Lead (largest platinum (Pt) production source in Australia)
- Maiden JORC (2012) resource at Sorpresa of 125Koz gold + 7.9Moz silver.
- New significant intercept at Transit of 55m @ 0.94 g/t Au.
- GPR funding 4,000m of aircore and RC drilling at Transit to further evaluate discovery.

Avondale Project (Au-PGE) – RIM Managed Earn-in with GPR

- Earn-in with Golden Plains Resources for up to \$7.5m to earn up to 75%.
- Prospective rock units at surface or sub-cropping.
 - GPR funding bulk soil sampling (Kars Pt / Pd) and 1,500m of aircore drilling (Currajong Co)

Why the Lachlan Fold Belt?



World class location with numerous significant discoveries and operating mines.

- Region is host to producing mines including:
 - Cowal Au (Evolution Mining, \$7b Mkt Cap)
 - Northparkes Cu/Au (CMOC 80% / Sumitomo 20%)
 - Cadia Au (Newcrest Mining, \$20b Mkt Cap)
 - Tomingley Au (Alkane Resources, \$0.6b Mkt Cap)



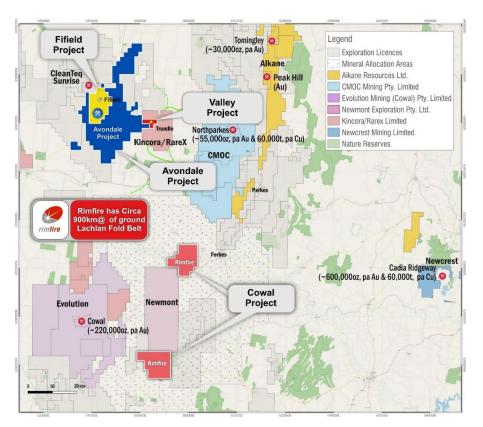








- Numerous significant explorers including:
 - Sunrise Energy Metals (Nickel, Cobalt, PGE's*)
 - Rimfire (Fifield Au Discovery, Historical Pt Mine, PGE's*)
 - Kincora Copper / RareX (porphyry Cu/Au)
 - Alkane Resources (Au and porphyry Cu/Au)
 - Emmerson Resources (Au and porphyry Cu/Au)
- □ Rimfire has circa 900 km² of ground in the area.



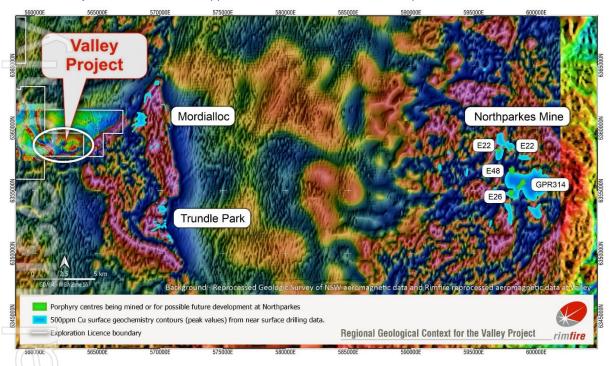
^{*} The six PGE metals are ruthenium, rhodium, palladium, osmium, iridium, and platinum (Pt)

The Valley Project (100% RIM)



Location

 15km east of Fifield Project, 35km west of the Northparkes porphyry copper-gold mine and adjacent to the Kincora Copper Mordiallic and Trundle Park Prospects.



Key Points

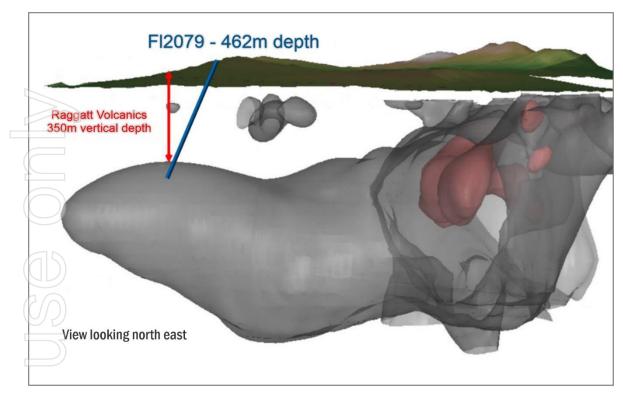
- Situated on western side of the interpreted caldera that is split by the Tullamore Syncline with Northparkes mine on the eastern side.
- 2021 drilling intersected at approximately 350m depth Ordovician bedrock beneath a broad zone of elevated surface copper geochemistry - the same type and age of rocks that hosts the Northparkes copper-gold mineralisation.
- Reprocessing of geophysical data confirms the Valley has a Northparkes scale footprint and potential to host a similar size copper / gold system.
- Northparkes mineralised system occurs as a smaller zone within a broader zone of elevated geochemistry which is the interpreted model for the Valley project.

Next Steps

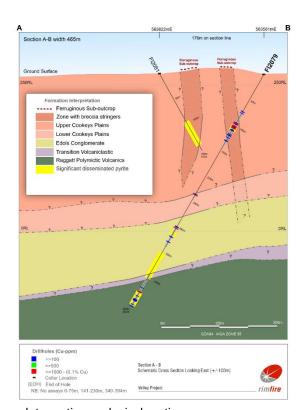
• 60 aircore drillholes, total 1,500m

The Valley Project (100% RIM)





Interpreted magnetic model of Ordovician rocks (in grey), which was tested by drilling and verified with Ordovician rocks occurring under younger sediment package at around 350m vertical depth.



Interpretive geological section.

The Cowal Project (100% RIM)



Location

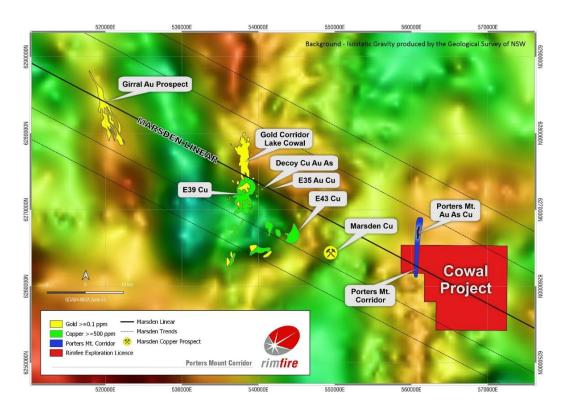
- 25 km east of Evolution Cowal Au mine and directly south of Porters Mount (historical sub-economic copper mineralisation).
- Neighbours include Newmont and Evolution.

Key Points

- Data analysis over past 12 months confirms concept that N-S structural trend extends south of Porters Mount and could host mineralisation under cover.
- The N-S structure also intersects major NW-SE structural corridor (Marsden Linear).
- The Cowal Mine lies on the same NW-SE structural trend and a parallel N-S trending structure.

Next Steps

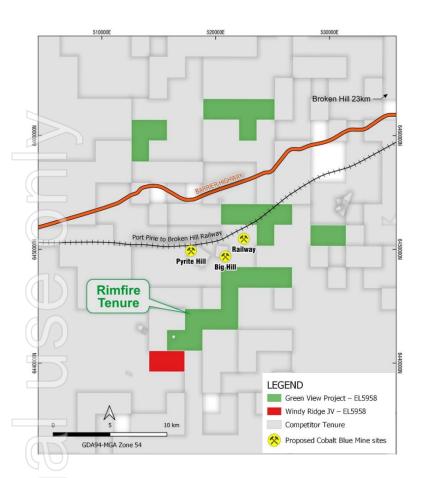
10 aircore drillholes, total 1,500m



Porters Mount corridor is intersected by Marsden Linear and on a N-S structure that is parallel to Cowal N-S structure.

Broken Hill Green View Project (100% RIM)





Location

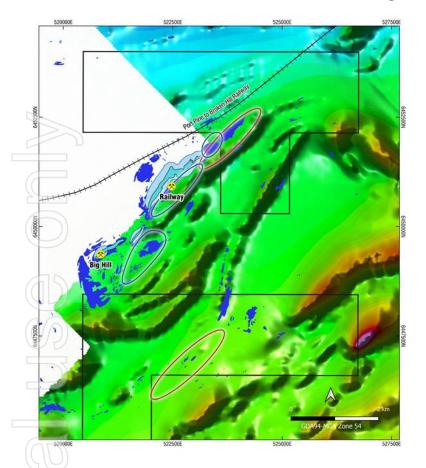
- Rimfire's tenure is located immediately along strike from Cobalt Blue's significant Railway cobalt deposit (JORC Resource of 74Mt @ 704ppm CoEq, with 43,700t of inground cobalt – Source: COB ASX Company Presentation 10 June 2021).
- The project's location will allow the Company to leverage its existing relationships, equipment, and people in the Lachlan Fold Belt area.

Key Points

- The addition of a wholly owned Cobalt project provides Rimfire exposure to a new commodity and an ongoing opportunity to support supply of this strategic metal for renewable energy.
- 25 blocks of Exploration Licence 5958 have been released from the Windy Ridge JV with Perilya and returned to Rimfire who will have a 100% interest and management control.
- 2 units remains in Windy Ridge JV managed by Perilya 90% interest (RIM 10% free carried) where focus remains on lead, zinc and silver potential.

Broken Hill Green View Project (100% RIM)





Key Points

- Rock units of interest that contain the JORC Resource at Railway extend along strike into Rimfire's ground.
- Published geological maps show small patches of the prospective rock unit outcropping along strike and indicates continuity is likely under shallow cover.
- The underlying magnetic signature also suggests that the prospective stratigraphy extends into EL5958 before apparent folding towards to the SE. Outcrop extends at least 800m in EL5958 before dipping under recent cover.
- Cobalt mineralisation commonly exhibits an associated VTEM (Versatile Time Domain Electromagnetic) feature on the flank.

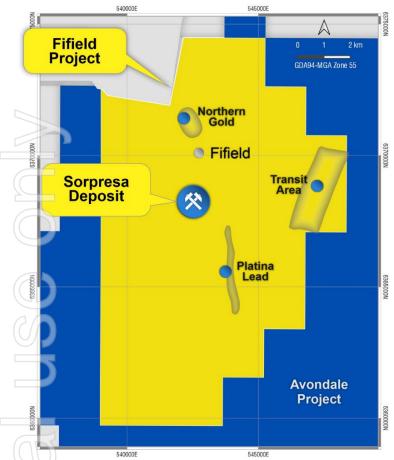
Next Steps

- Reconnaissance mapping
- Follow up aircore 2,000m drilling program (after completion of mapping)



Fifield Earn-in Project (RIM Managed)





Earn-in Terms

- Golden Plains Resources (GPR) can obtain 50.1% interest in a JVA for \$4.5m of exploration expenditure over 3 years, and funding for Rimfire's share of approved mine development.
- \$2.1m over the last 12 months has been paid under the Fifield Project Earn-in by GPR.
- Rimfire retains project management control.

Sorpresa Deposit: Mine Development Approval

- Environmental Impact Assessment and Environmental Impact Statement
- Timeline to obtain Mining Development Consent circa 18 months

Transit Prospect

- Located 4km east of Sorpresa Resource
- Recent RC drilling identified a broad zone of ~1g/t Au that is open down dip (deeper) and along strike
- Soil geochemistry indicates additional areas beyond current zone that warrant drill testing

Next Steps (fully funded GPR):

Transit

- Transit 6 RC holes, total 1,500m
- 100 aircore holes, total 2,500m

Platina Lead - (Pt / PGE's*)

• 10 x large diameter auger (Caldwell) holes, total 150m

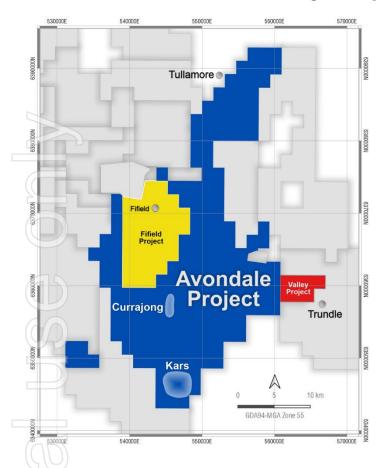
Additional Exploration Prospects

- 114 Trend and Rabbers (circa <1km from Sorpresa)
- Northern Gold (Historical Au mining, circa 2km north of Sorpresa)
- Casuarina Valley and Fortuna (circa 1km north of Northern Gold)

^{*} The six PGE metals are ruthenium, rhodium, palladium, osmium, iridium, and platinum (Pt)

Avondale Earn-in Project (RIM Managed)





Earn-in Terms

- Golden Plains Resources (GPR) can obtain a 75% interest in the JV area for \$7.5m of exploration expenditure across four years.
- GPR has committed to \$1m of exploration expenditure in year one.
- Rimfire retains project management control.

Kars Exploration Prospect

Key Points

- Recent work supports area of known historical anomalous platinum.
- Could also host other elements that support EV green industry metal demand.

Next Steps (fully funded GPR)

- Collect 100 bulk soil samples (15kg) for analysis from are of the historical platinum anomaly.
- Analyse coarse gravity separation material for Pt, Pd and other PGE's*.

Currajong Exploration Prospect

Key Points

- Recent work supports occurrence of cobalt and nickel in the lateritic soil profile.
- Continuity and extent of this profile is unknown.

Next Steps (fully funded GPR)

100 aircore holes, total 1,500m.

^{*} The six PGE metals are ruthenium, rhodium, palladium, osmium, iridium, and platinum (Pt)

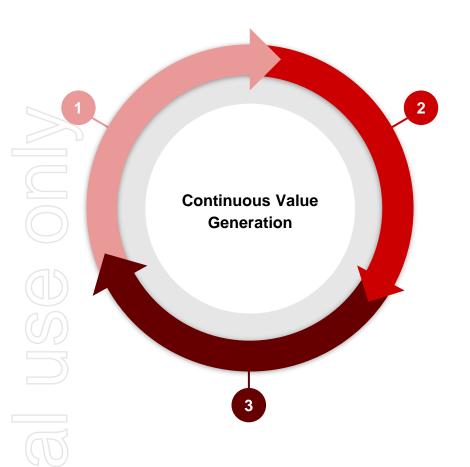
Work Program Schedule



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Rii	mfire 100% GPR Earn-in	November	December	January	February
ley	Aircore Program 1,500m - 60 holes				
Valley	Geophysical Program				
Cowal	Aircore Program 1,500m - 15 holes				
Green View	Reconnaissance Mapping				
Green	Aircore Program 2,000m - 40 holes				
	Transit RC Program 1,200m - 6 holes x 200m	3			3
Fifield	Transit Aircore Program 2,750m - 100 holes				
	Platina Lead Auger ("Caldwell") Drilling - 10 holes				
ondale	Currajong Aircore 1,500m - 60 holes				
Avoi	Kars (PGE's) - Soil Sampling				

Our Exploration & Growth Strategy





1. Wholly Owned Exploration

- The Valley Cu / Au
 - Target being drilled and further defined
 - Adjacent to Kincora / RareX Projects
- Green View Co
 - Along strike from significant Cobalt Blue Railway Cobalt Resource (inground value circa \$3.0B)
- Cowal Area Au
 - Neighbours include Newmont, Sandfire, Evolution

2. Commercialisation

- Executed Fifield Project Earn-in
 - \$4.5m earn-in with GPR for up to 50.1%; RIM to retain management during earn-in phase.
 - GPR to fund Rimfire's share of approved mine development.
- Executed Avondale Project Earn-in
 - \$7.5m earn-in with GPR for up to 75%; RIM to retain management during earn-in phase.

3. Growth Opportunities

- Accretive Growth transitioning from 1 to 2
- Identification of new Projects
- Evaluation of further exploration growth opportunities

Corporate Overview



Our Team



lan McCubbing: Non-Executive Chairman

Ian was appointed a Director and Chairman of the Board in 2016. He has 30 years experience in the areas of corporate finance, M&A and brings a strong commercial background in the resources industry. Mr McCubbing is currently a Non-Executive Director of Swick Mining and Prominence Energy (Chairman).



Craig Riley: Managing Director & CEO

Craig has over 25 years' of exploration and mining industry experience, principally in areas of project appraisal and development including at Northparkes Mine in central NSW.



David Hutton: Non-Executive Director

David was appointed a Non-Executive Director in October 2021. He is a geologist with over 30 years experience in Australia and overseas. David brings considerable experience in exploration, corporate strategy and stakeholder engagement.



Misha Collins: Non-Executive Director

Misha was appointed a Director in July 2021. A qualified metallurgist he has over 23 years of experience in the resources industry as a mining executive, financial analyst and company director. Mr Collins is a Non-Executive Director of Sihayo Gold.



Andrew Greville: Non-Executive Director

Andrew will resign as a Director in November 2021.



Andrew Knox: Non-Executive Director

Andrew was appointed a Director of the Board in March 2020. A qualified accountant he has over 35 years of resources experience in acquisitions, mergers and capital raisings for micro and low capital companies. Andrew was formerly a Non-Executive Director of Rimfire from 2005 to 2011. He is currently the CEO / MD of ASX listed Red Sky Energy Ltd.

Capital Structure

Shares on Issue (FPO)	1,806M
Unlisted Options	15M
Market Cap. (at 0.9 cents/share)	\$16.3M
Total Shareholders	~2,400
Top 20 shareholders	~35%
Major Shareholder - GPR	~4.98%
RIM Cash at Bank – Sep 30, 2021	\$1.2m
Fifield Project Cash Balance - Sep 30, 2021	\$0.5m
Avondale Project Cash Balance – Sep 30, 2021	\$0.3m





For further information, please contact Greg Keane (CFO / Investor Relations):



+61 3 9620 5866



rimfire@rimfire.com.au



Rimfire Pacific Mining



@NIRimfire