



**SIREN GOLD**  
LIMITED

# Diggers & Dealers Presentation

**2023**

**ASX: SNG**



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## COMPETENT PERSONS STATEMENT

The information contained in this report relating to exploration results, exploration targets and mineral resources has been previously reported by the Company; Drilling at Auld Creek continues to intersect a broad mineralised zone – 19 Jul 2023; Broad mineralisation contains High-grade visible gold in quartz reef at Big River South – 12 July 2023; Ionic Leach trial successfully detects mineralisation 500m below surface at Sams Creek – 22 June 2023; Second hole at Auld Creek Intersects Broad Mineralised Zone – 8 Jun 2023; Trenching results extend mineralisation trend at Lyell to 1km – 1 June 2023; Siren's Global Resource increases to 1.2Moz -11 May 2023; First hole at Auld Creek intersected 20.8m @ 12.0g/t AuEq – 8 May 2023; Big River Maiden Mineral Resource increases Siren to 1.1Moz – 20 April 2023; Broad mineralisation evident from Sirens first drillhole at Auld Creek – 12 April 2023; First drillhole at Auld Cree-More High-grade results at Auld Creek – 11 April 2023; High-grade Gold at United Victory Reef – Lyell – 7 March 2023; Drilling to Commence at Auld Creek – 6 March 2023; Global Resource Reaches Key 1 Moz Milestone – 30 January 2023; More high-grade Gold and Stibnite intersected at Auld Creek – 24 January 2023; Metallurgical Results an Process Plant Scoping Study Update – 20 January 2023; Granting of the Cumberland EP – 21 December 22; New high-grade Gold and Stibnite intersected at Auld Creek – 3 November 2022; Sams Creek Mineral Resource Estimate exceeds 800,000oz at higher grade – 17 November 22; New high-grade Gold and Stibnite intersected at Auld Creek – 3 November 2022; Alexander River and Big River progress – 28 October 2022; High-grade Gold intersected on 4km Soil Anomaly at Lyell – 14 October 22; Exceptional high-grade Gold & Stibnite at Auld Creek – 4 October 22; Alexander River Maiden Mineral Resource Estimate – 20 July 22; Siren Expands Exploration Strategy -20 July 22; Big River A2 Shoot extended t 200m – 11 July 22; Another High-grade intersection at Alexander River – 6 July 22; Exciting potential at Sirens Auld Creek Project – 9 Jun 22; Siren Gold Acquires Sams Creek Gold Project – 3 Jun 22; Siren Gold Pegs High Grade Langdons Reef at Reefton – 10 May 22; New 3km Gold Zone Discovered at Lyell – 4 April 22; Spectacular Siren Strike – 2.5m @ 358g/t Au – 31 Mar 22; Compelling Comparisons on Reefton and Fosterville Deposits – 25 March 22; Siren Continues to Intercept high Grade Mineralisation – 17 March 22; New 3km mineralised zone discovered at St George – 16 Feb 22; New mineralised shoot Intersected at Alexander River – 16 Dec 21; Scoping Study for Process Plant at Reefton – 28 Oct 21; Siren Significantly Extends Mineralisation at Big River -19 April 21 (Announcements). The Company confirms that it is not aware of any new information or data that would materially affects the information included in the Announcements and, in the case of estimates of mineral resources, released on 20 July 2022 and 5 October 2022, that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.

## New Zealand Explorer



**FOCUSED ON HIGH  
GRADE REEF TON  
GOLDFIELD & SAMS  
CREEK PORPHYRY**

~1100km<sup>2</sup> tenement  
package

Large historic goldfield  
closed during WWII



**EXTREMELY  
UNDER-EXPLORED**

**HIGHLY PROSPECTIVE**

+35km long structural  
corridor

Little previous  
exploration

### Previous Gold production 11Moz



**PROVEN MINING  
ADDRESS**

+ 2Moz @ ~16g/t UG  
+700,000oz Open Pit  
+8 Million Ounces Alluvial

High Grade Antimony

84 UG mines

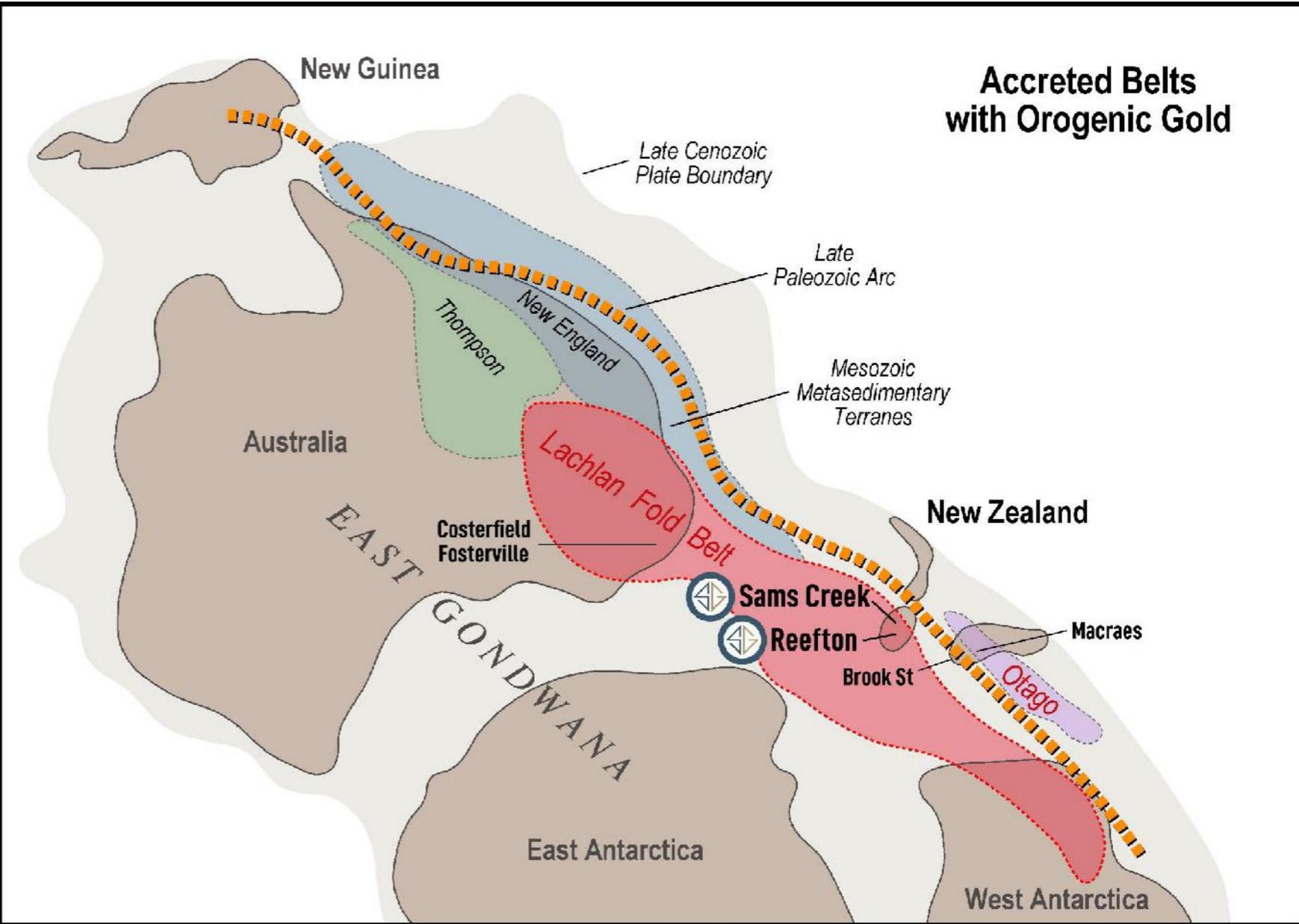
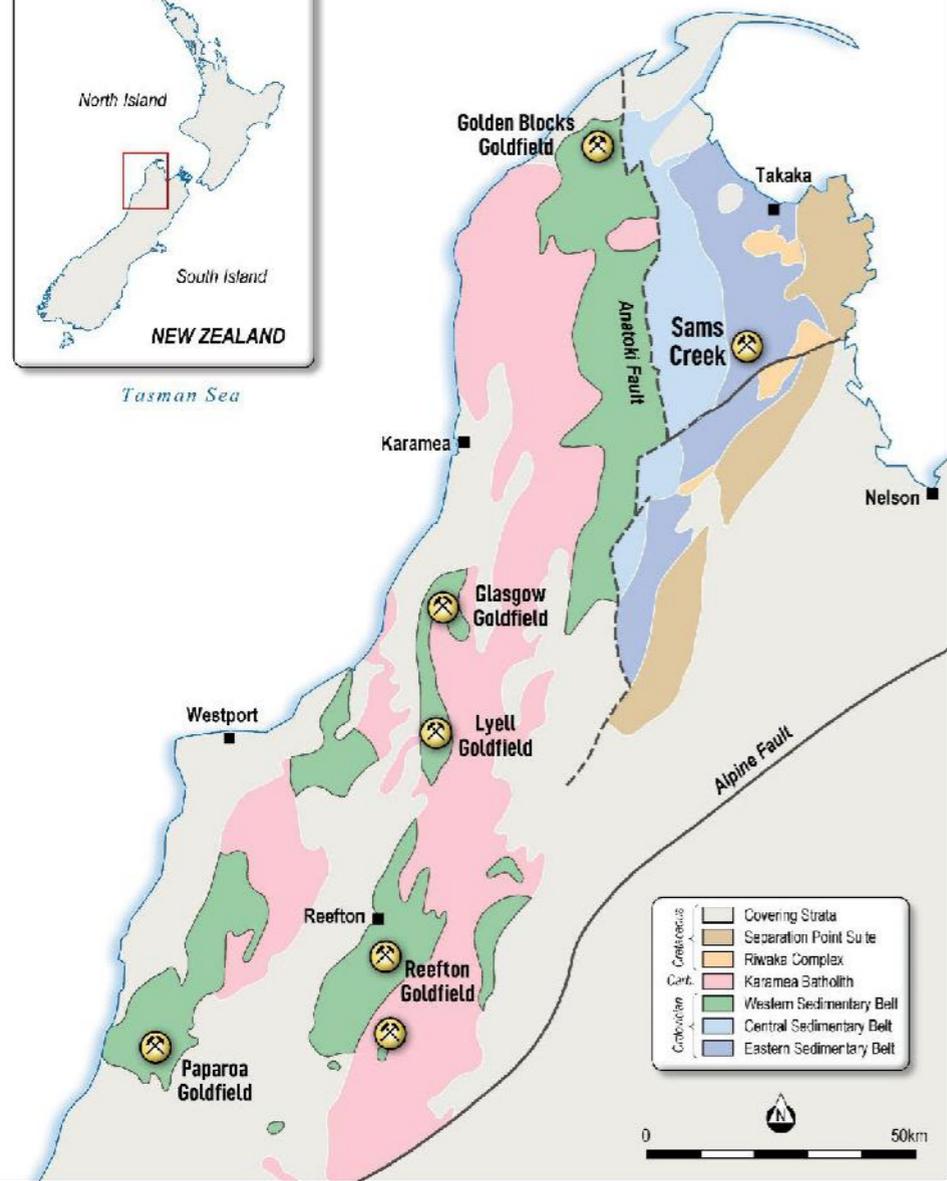
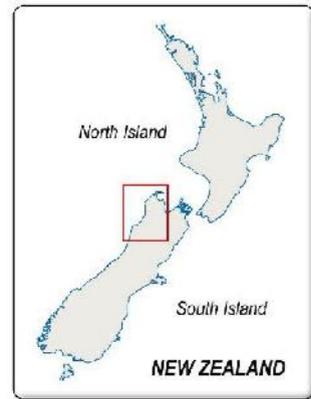


**SEVEN INDIVIDUAL  
MINE POTENTIAL  
AREAS**

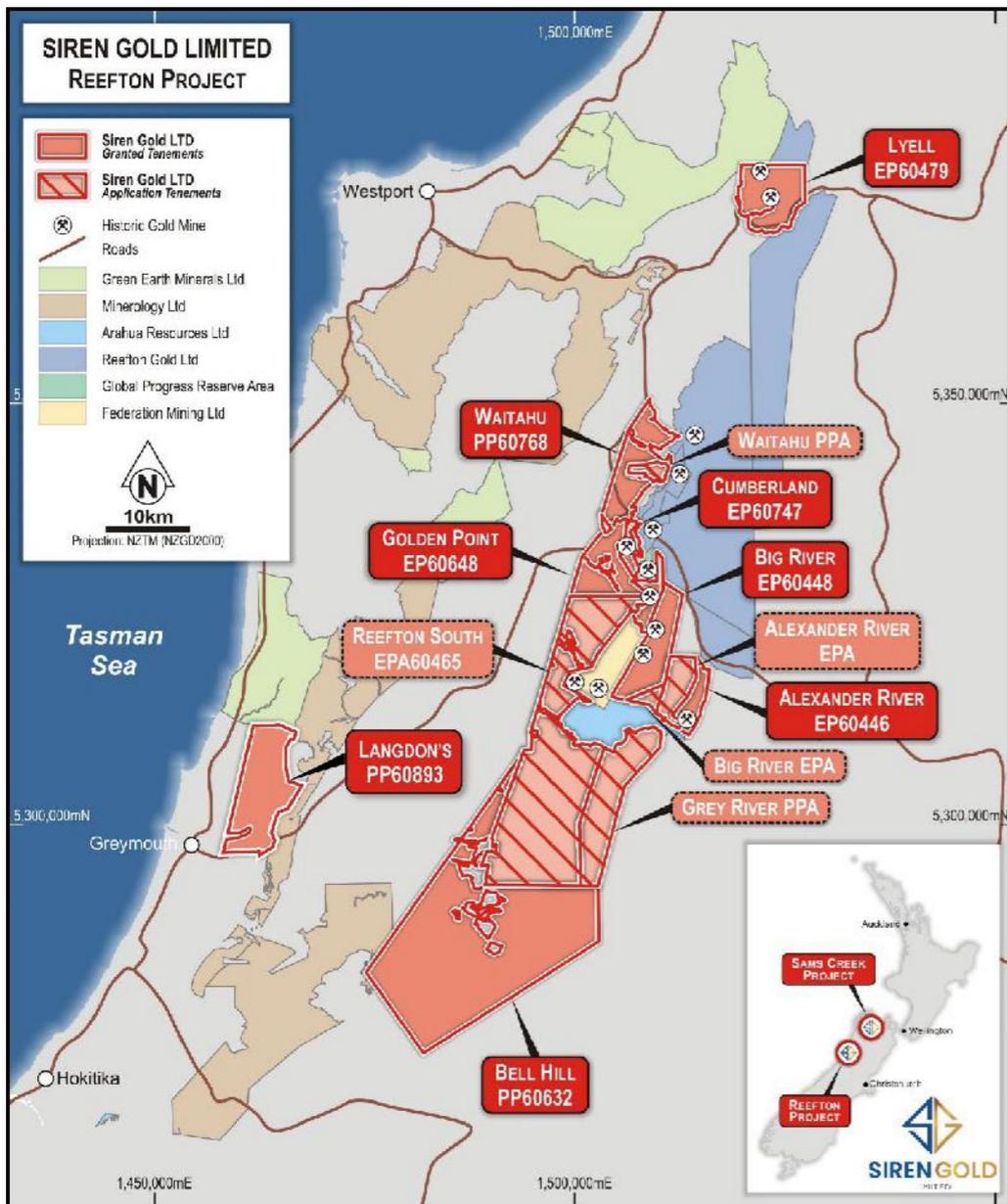
Alexander River  
Big River  
Lyell Goldfield  
Auld Creek  
Cumberland  
Reefton South  
Sams Creek



# Reefton & Sams Creek : Originally part of the Lachlan Fold Belt



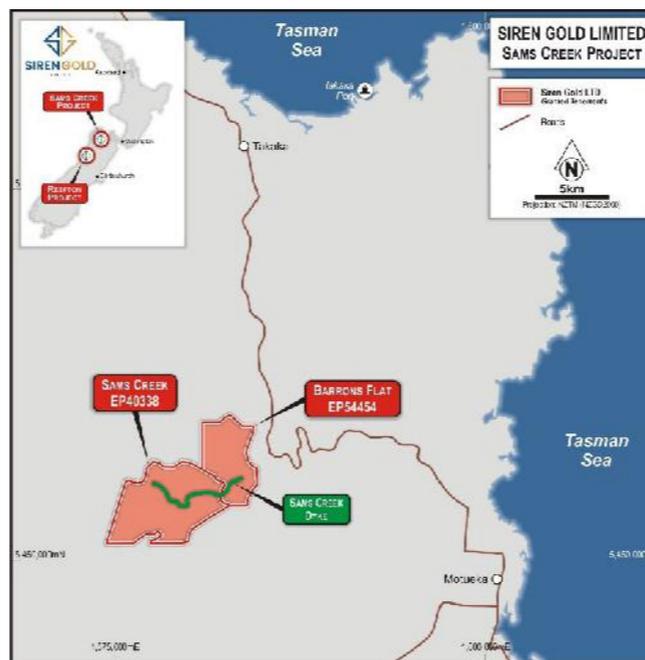
# Siren Gold : Global MRE – 1.2Moz @ 3.1 g/t Au



## 2023 Global Resource Estimate at a 1.5g/t Au cut-off (100% basis)

Project	Status	Cut-off (g/t)	Tonnes (Mt)	Au (g/t)	Ounces (koz)
Reefton	Inferred	1.5	3.0	3.9	378.4
Sams Creek	Indicated + Inferred	1.5	9.1	2.8	824.4 <sup>1</sup>
<b>Total</b>	<b>Indicated</b>	<b>1.5</b>	<b>12.1</b>	<b>3.1</b>	<b>1202.8</b>

<sup>1</sup> 100% basis Siren owns 81.2%



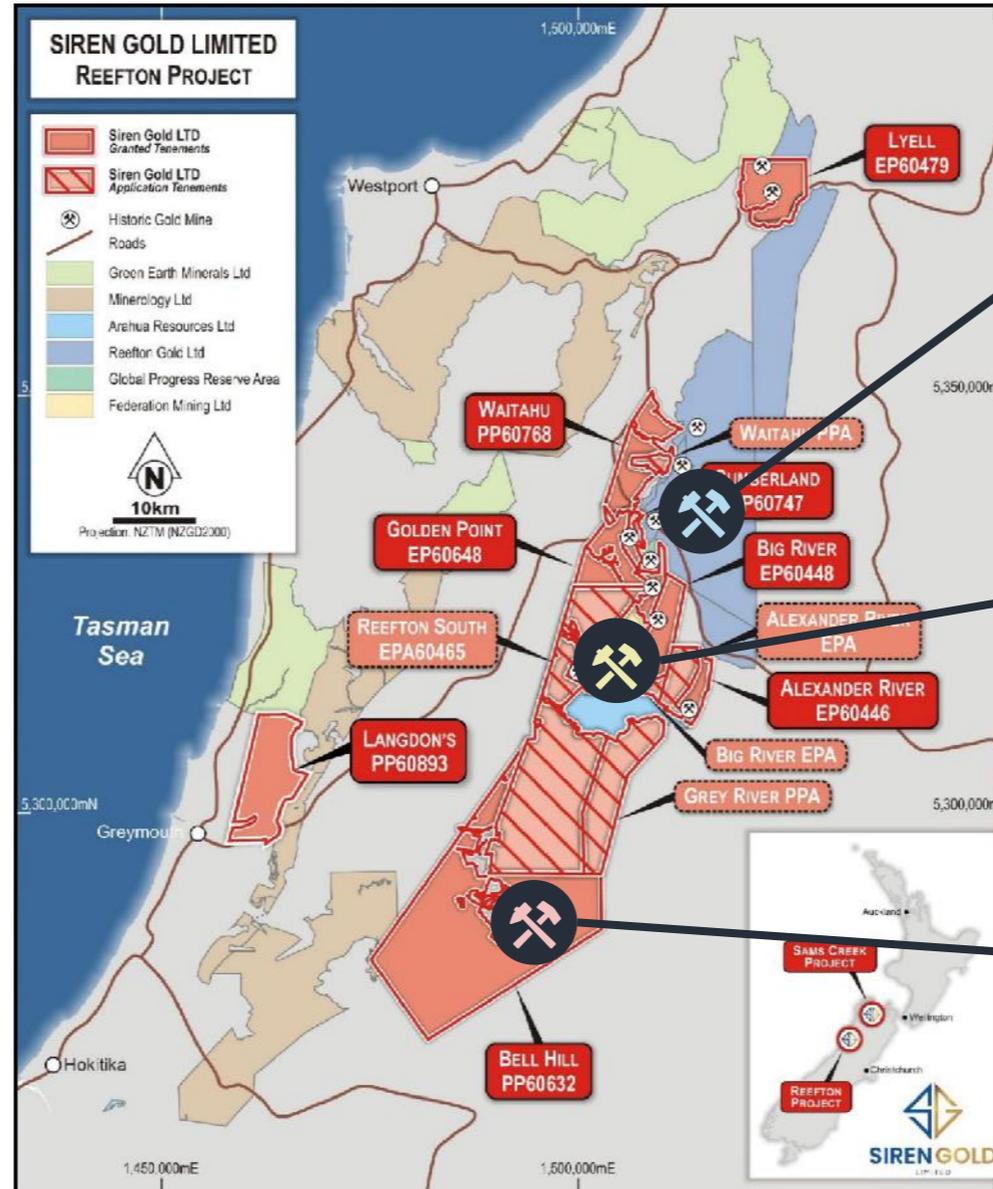
- MRE increased by 500koz @ 4.2g/t Au in last 12 months.
- Siren Gold has a **dominant 1,000km<sup>2</sup> tenement package** with numerous historic high-grade gold mines.
- Neighbour Reefton Goldfields Limited backed by Eric Sprott and Oliver Lennox-King.
- Federation Mining Limited developing twin declines at Blackwater, backed by Australian Super and NZ Govt.

# Historical Reefton Goldfield: +35km long structural corridor

Siren Gold has a dominant 1,100 m<sup>2</sup> tenement package

Supportive NZ government with clear paths to upgrade exploration permits to mining permits

Reefton is an established mining community



## Reefton Goldfields

Private, backed by Eric Sprott and Oliver Lennox-King

## Federation Mining Limited

Developing twin declines at the Blackwater mine.

Private company backed by Australian Super & NZ Govt

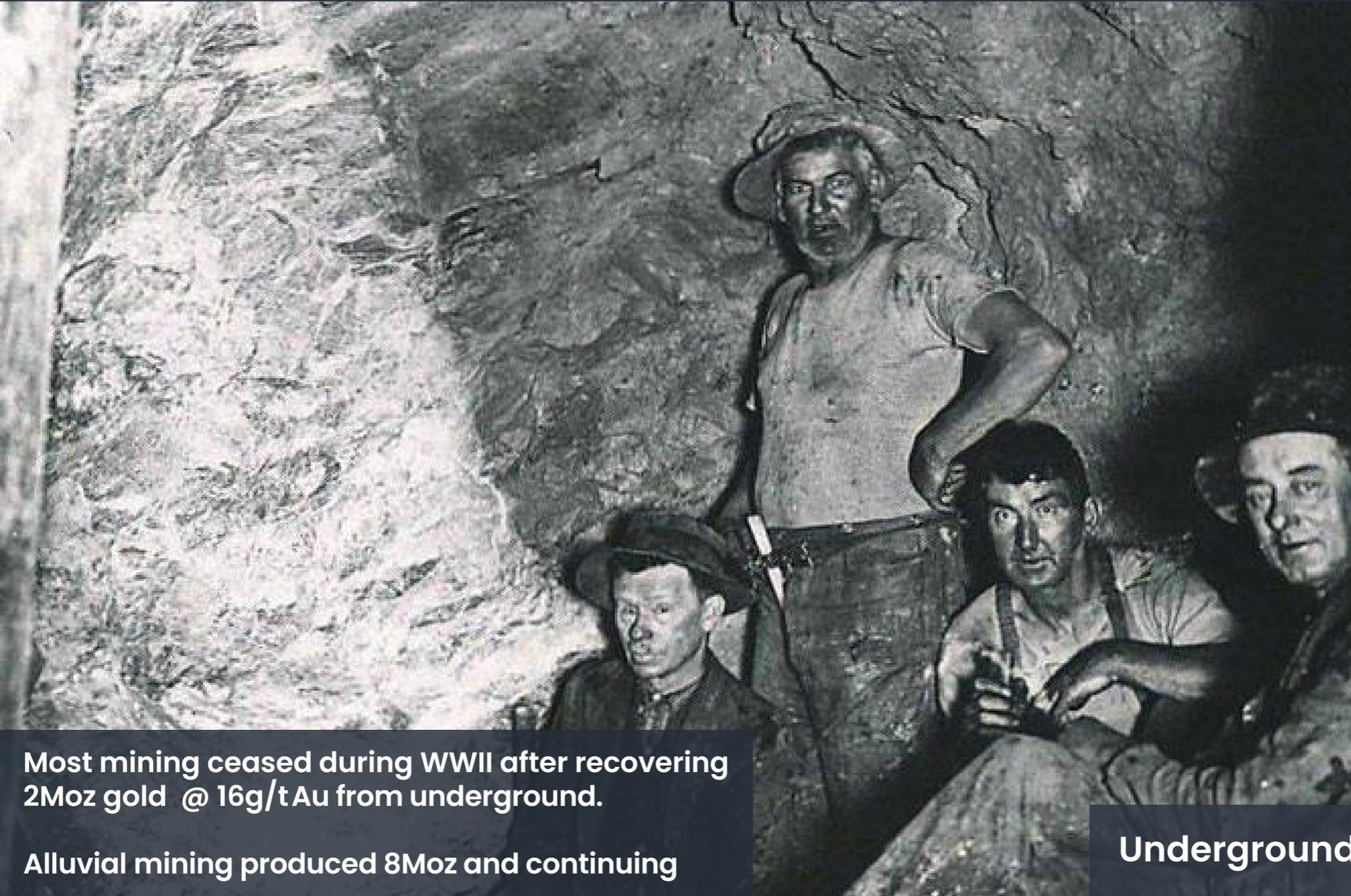
## Siren Gold

Backed by Top 50 and the ASX

# Reefton Goldfield: 100 Years of Historical Mining



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Lyell Goldfield Mine & Battery

**Lyell Produced 91,000 oz @  
18.4g/t up to 1911**



Lyell Goldfield Mine & Battery

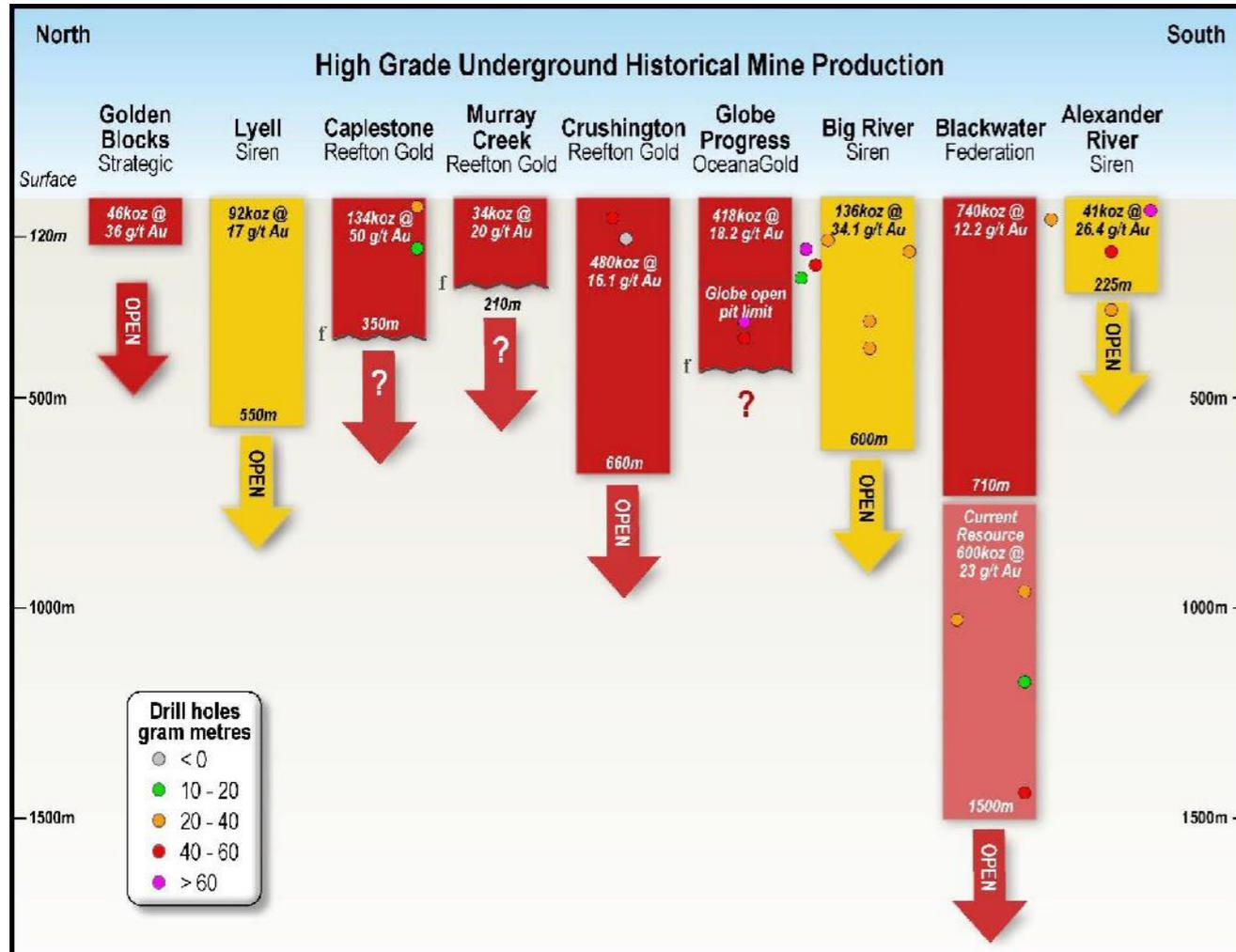
**Underground at Blackwater Mine 1900's**

**Most mining ceased during WWII after recovering  
2Moz gold @ 16g/t Au from underground.**

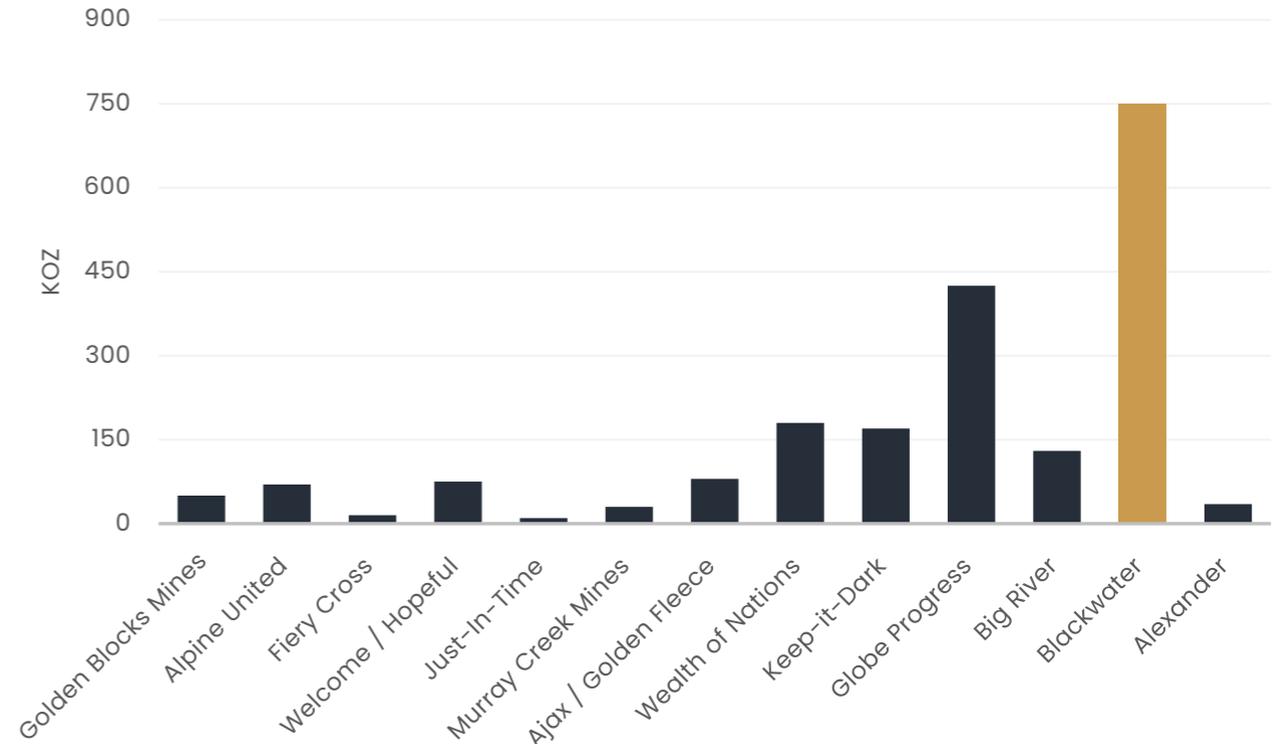
**Alluvial mining produced 8Moz and continuing**

# Reefton Goldfield: Unmined Potential Since WWII

## Entire Reefton Goldfield Unexplored with Modern Techniques



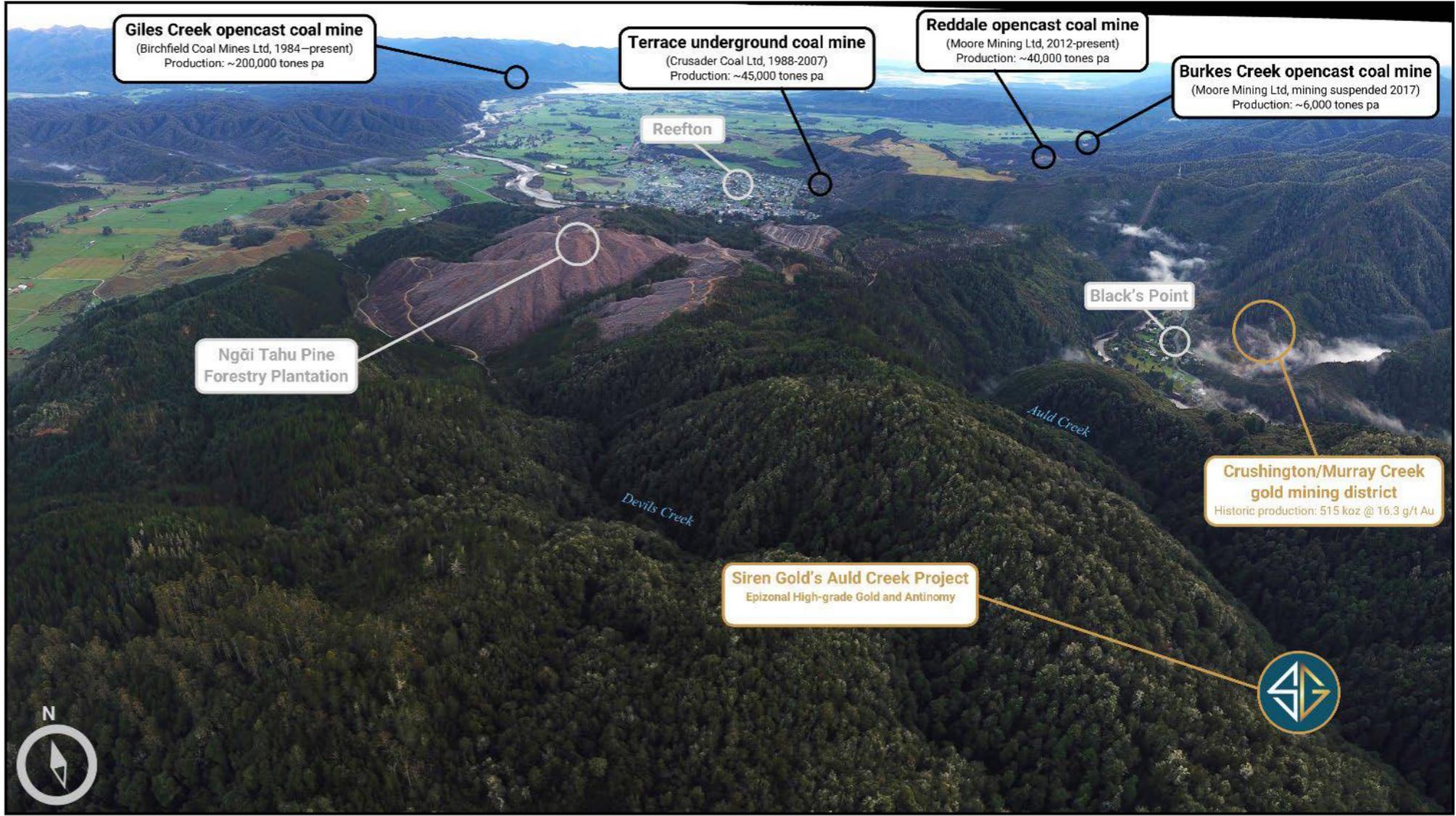
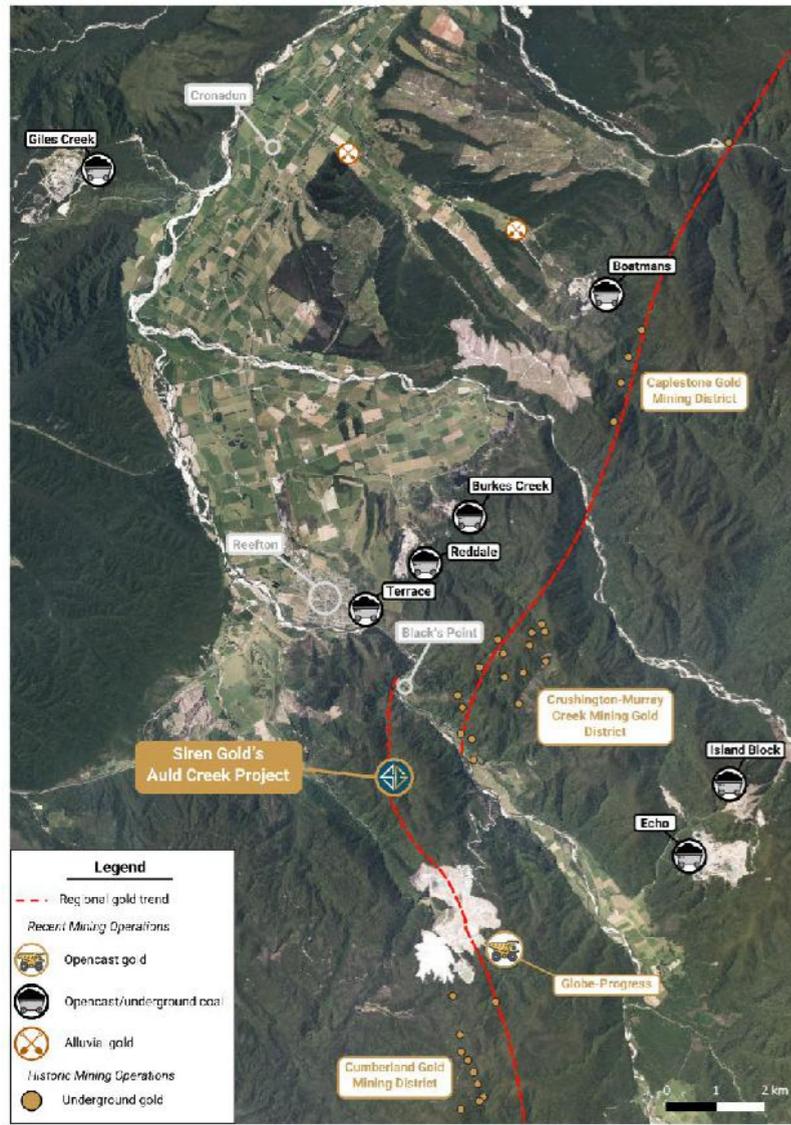
## Blackwater Mine closed 1952.



## Ounces Recovered

- References**
- Barry, J. 1993 . The history and mineral resources of the Reefton Goldfield. Ministry of Commerce Resource Information Report No.15.
  - OceanaGold, 2014. Preliminary Economic Assessment of the Blackwater Gold Project, Reefton NZ.
  - Barry, J. 1995. Mining History and Geology of the Alpine Reef. Lyell Goldfield Procs AIMM NZ Conference 1996.
  - Strategic Elements, 2018. Golden Blocks presentation delivered to the AusIMM NZ. ASX Announcement - 18 September 2018

# Reefton Mining Zone – 18 Mines within 20kms of Auld Creek



# Stibnite: Reefton Goldfield contains significant Antimony

China and Russia combined produce approximately **82%** of current world production.

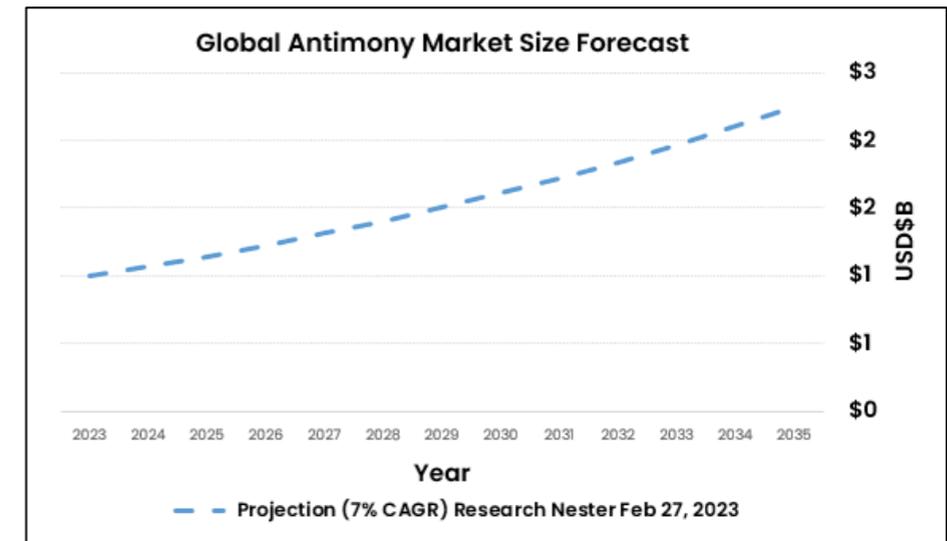
Gold equivalent formula ( $AuEq = Au\ g/t + 2.36 \times Sb\ \%$ ) used by Mandalay Resources Pty Ltd based on the Costerfield Mine VIC.

Gold price of **US\$1,750** per ounce, antimony price of **US\$13,000** per tonne.



Auld Creek AC4: 6.7g/t Au, 20.9% Sb for 56.0g/t AuEq.

**High-grade gold** remains the **primary economic driver** and focal point of **Siren's** prospects, with **Stibnite/Antimony** providing an additional bonus to the company



# Antimony: A Critical Mineral for EVs & Energy Storage

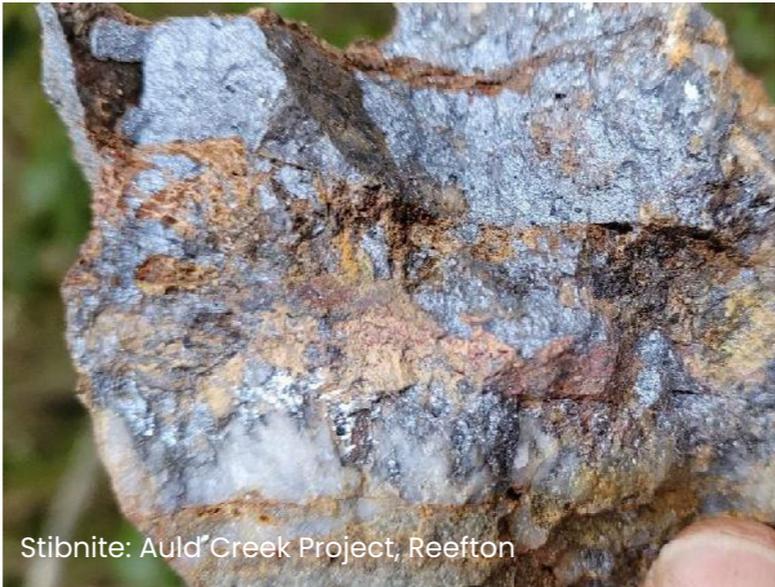


**Strategic  
Defence  
Applications**

**Technology  
coatings &  
semiconductors**



**Ambri liquid  
metal batteries  
for long-life  
energy storage**



Stibnite: Auld Creek Project, Reefton

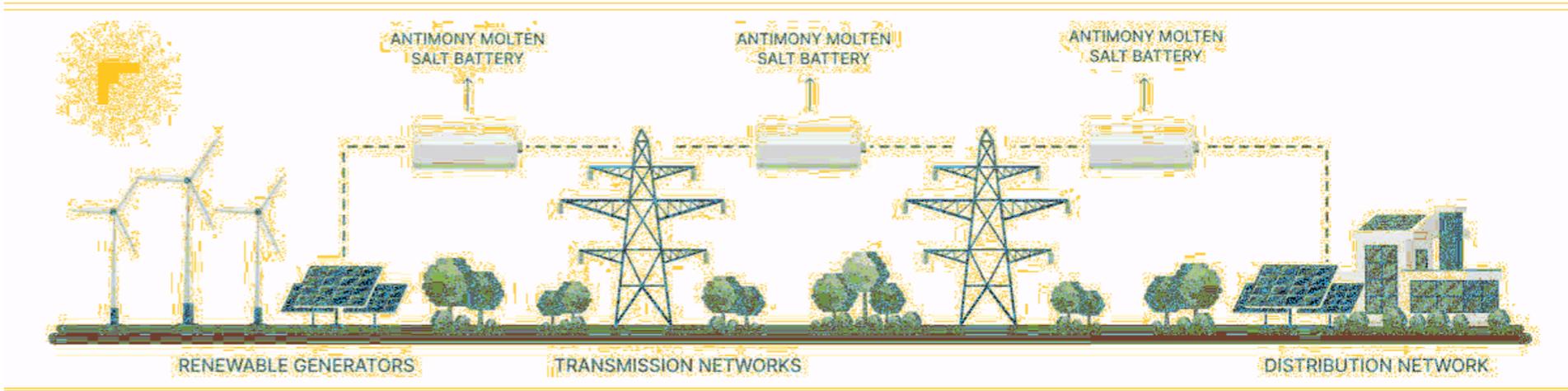
Antimony (Sb) ore is primarily extracted from Stibnite, and typically occurs in association with gold

Antimony is critical to the world’s clean energy transition, especially the semi-conductor and defence sectors.

Antimony is a critical element in lithium-ion batteries and the next generation of liquid metal batteries that lead to scalable energy storage for wind and solar power.



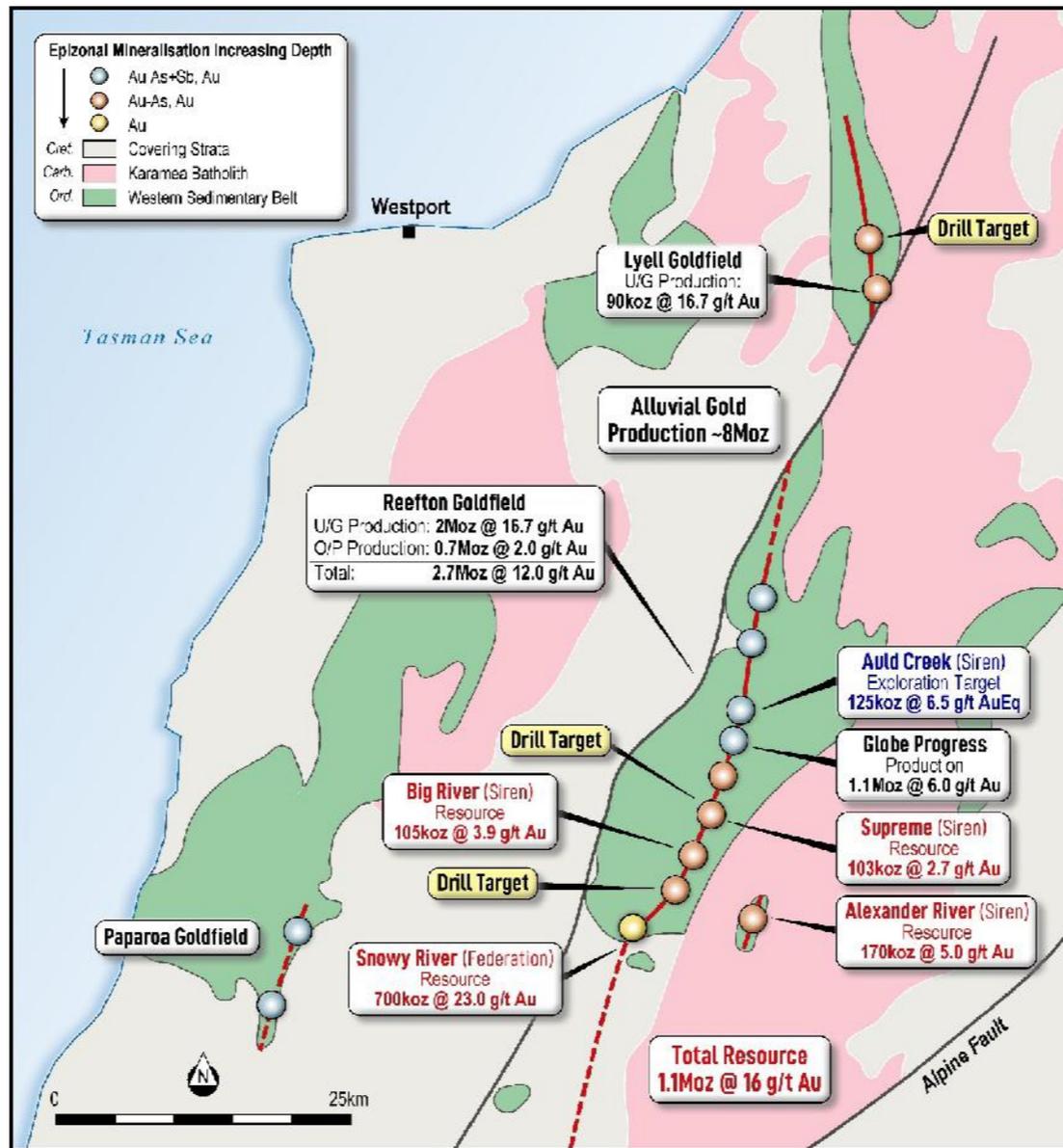
Stibnite: Auld Creek Project, Reefton



# Siren Gold has Seven Key Projects

**Auld Creek**  
**Cumberland**  
**Alexander River**  
**Big River**  
**Lyell**  
**Reefton South**  
**Sams Creek**

# Reefton : Epizonal mineralisation – Vertical Zonation

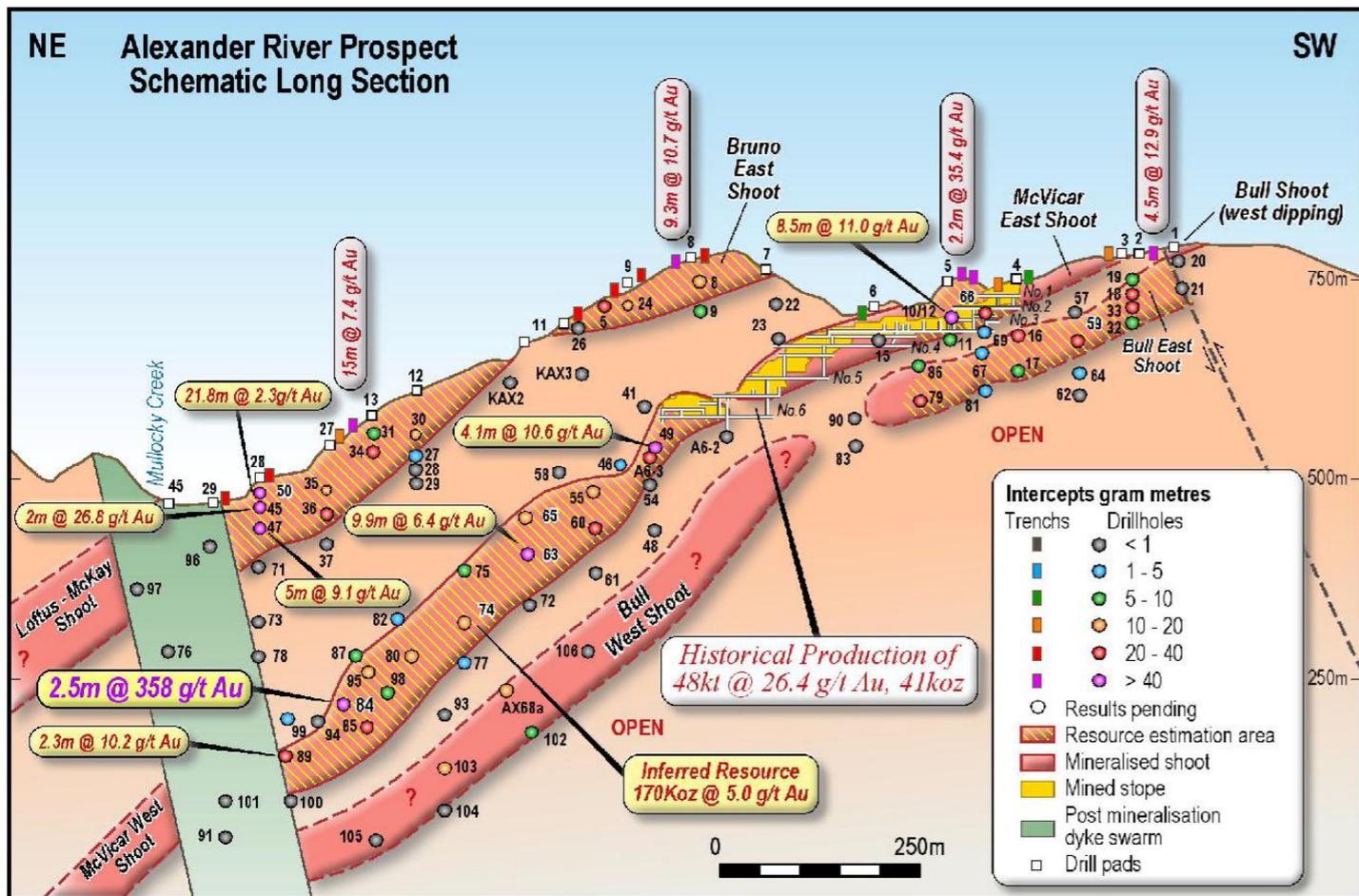




# Reefton : Shoots extend down plunge for km's

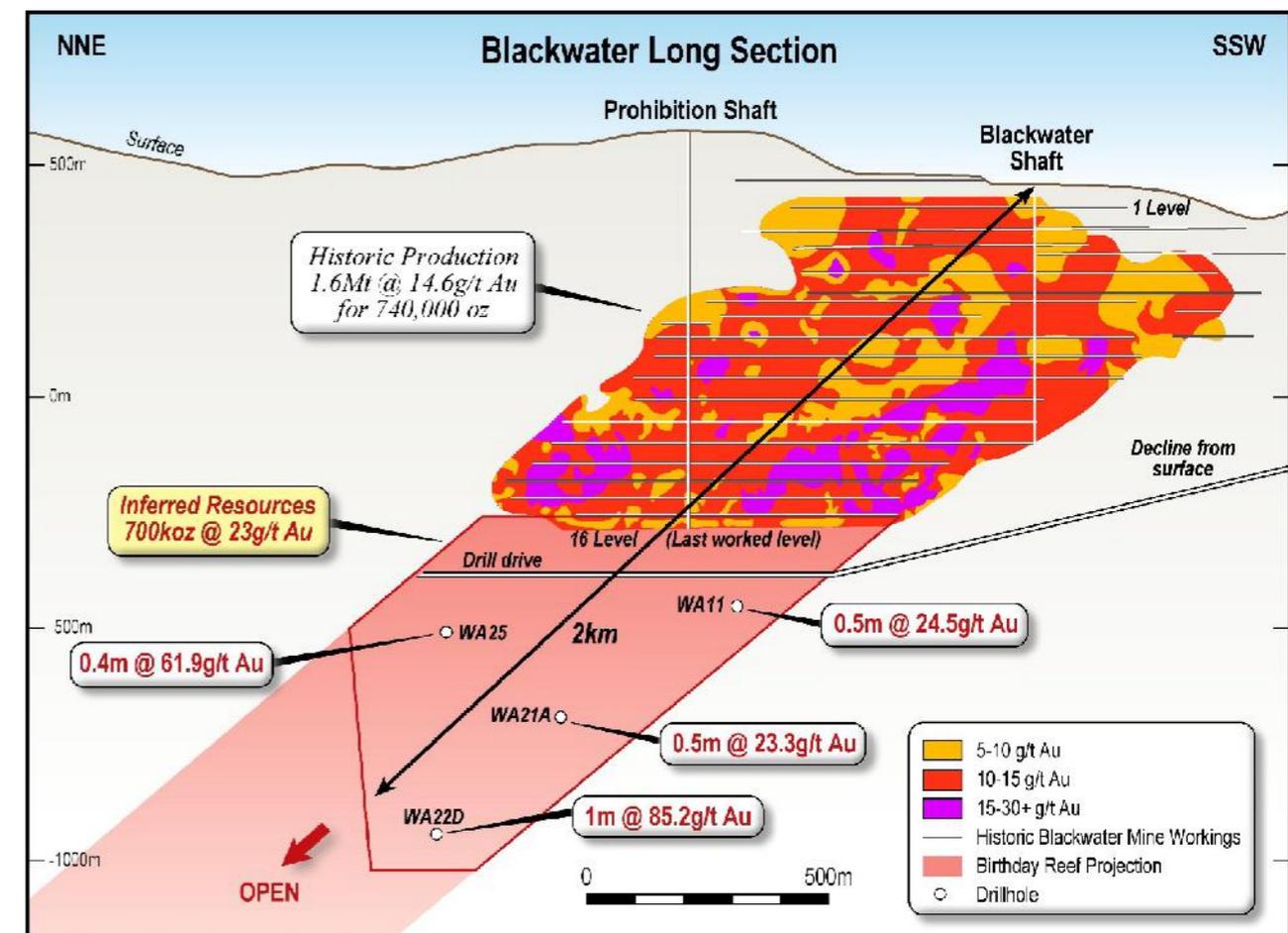
## Sirens Alexander River Project

Shoot extends for **+1.3kms** down plunge



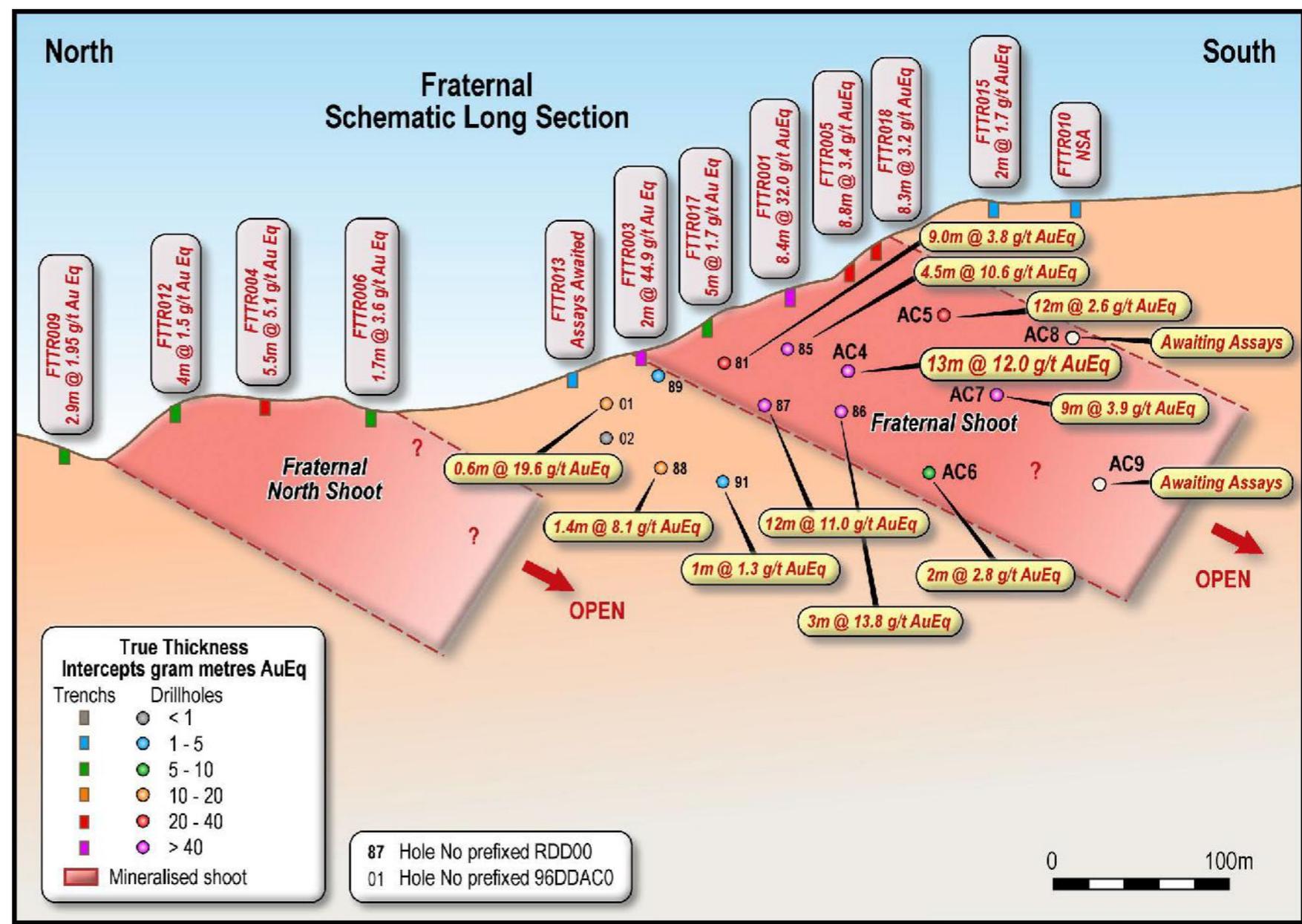
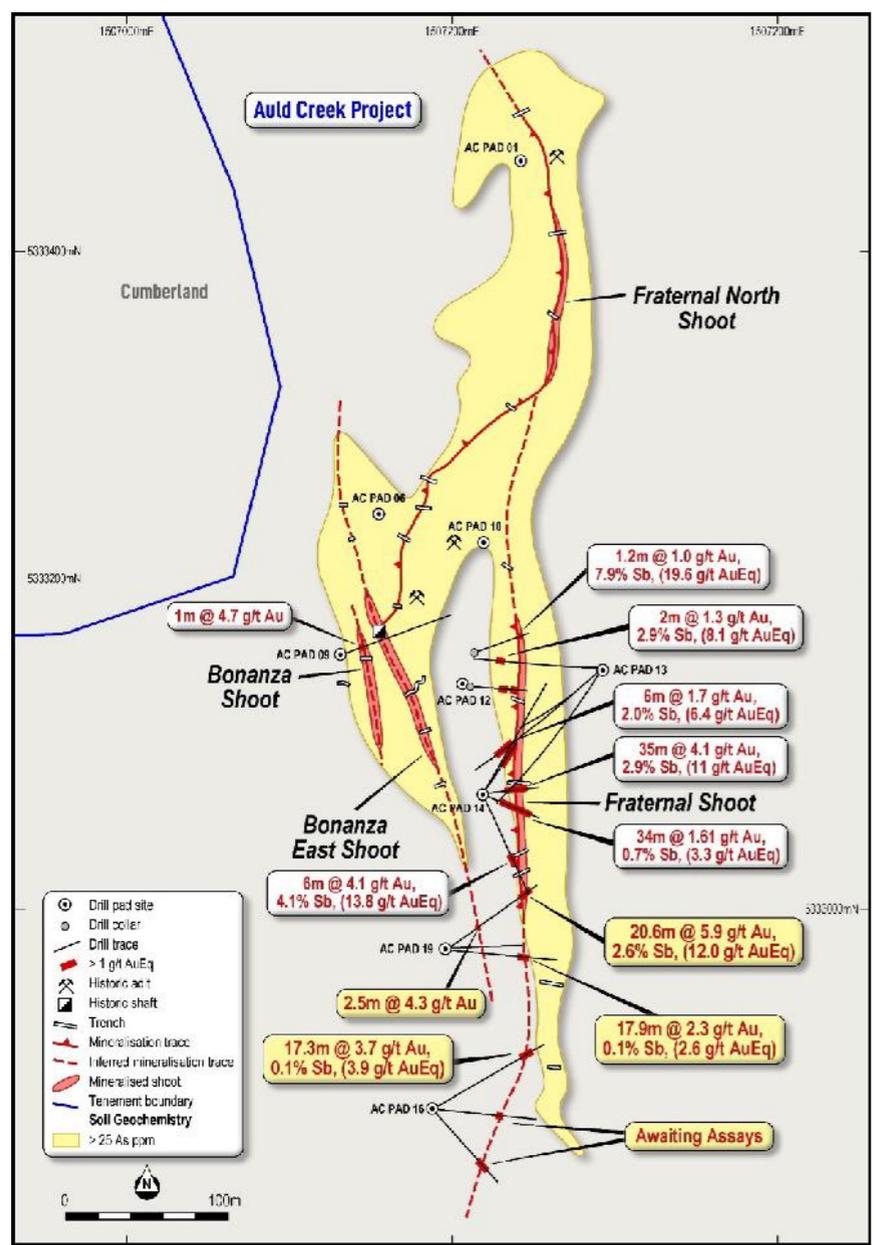
## Federations Snowy River Mine Development

Shoot extends for **+2.0kms** down plunge

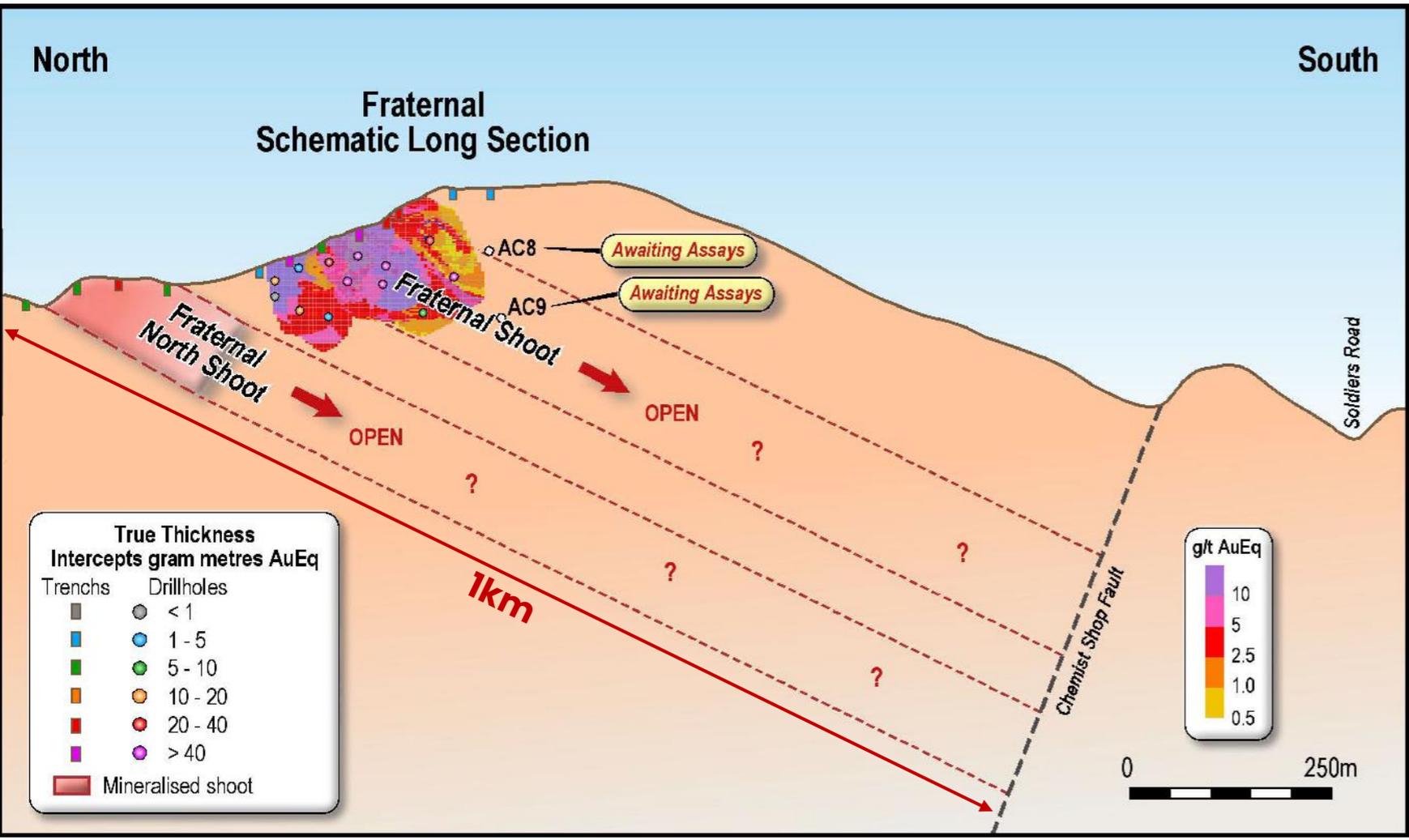




# Reefton: Auld Creek – Four potential Au-Sb Shoots



# Reefton: Auld Creek Initial Exploration Target of 115-125koz AuEq



Auld Creek Exploration Target		
Tonnes	550,000	650,000
Gold (g/t)	3.0	3.5
Sb (%)	1.2	1.5
Gold (oz)	55,000	65,000
Sb (t)	7,500	8,500
AuEq (g/t)	6.0	7.0
AuEq (oz) – based on a 2.36 factor	115,000	130,000



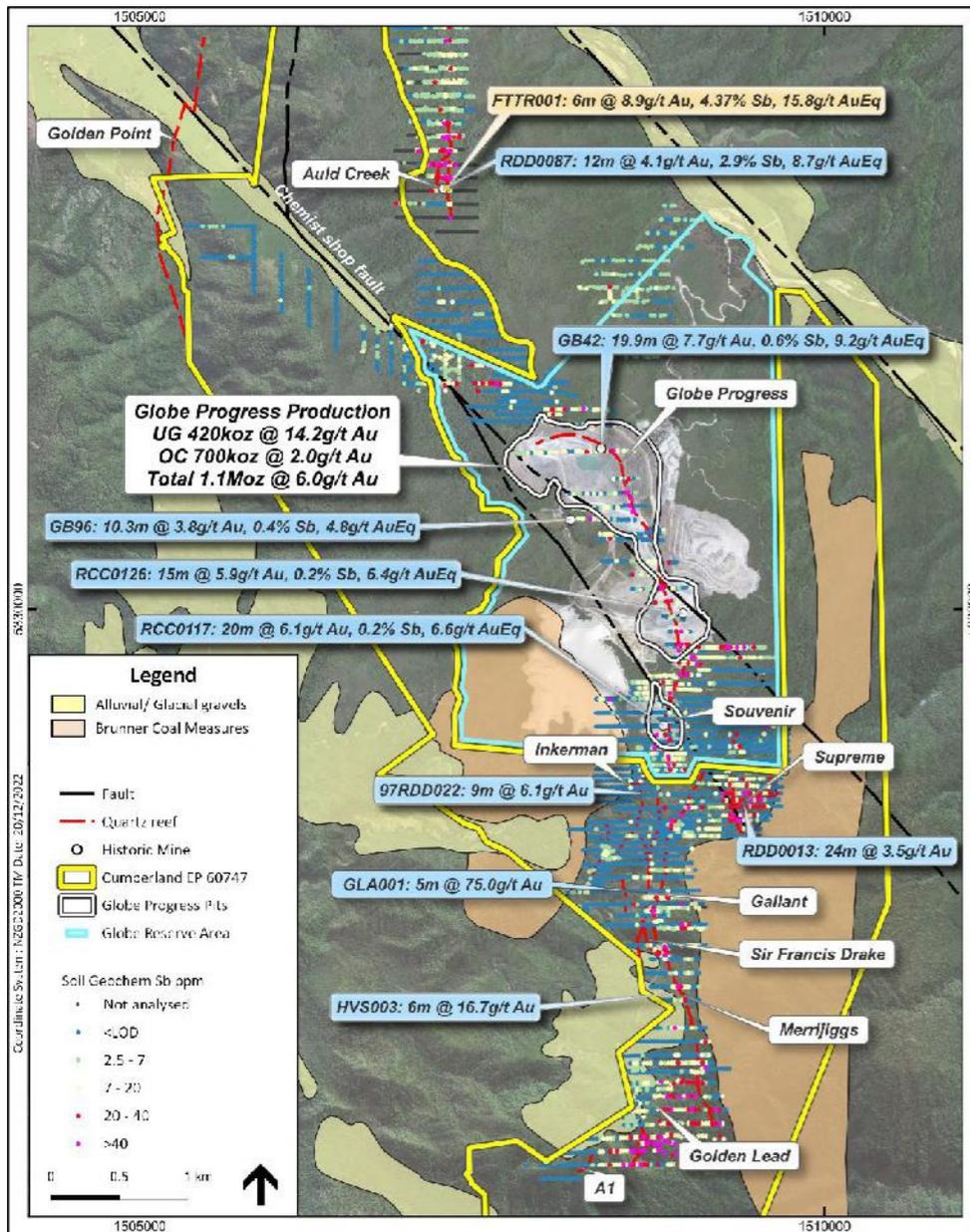
# Auld Creek: ACDDH004: 20.7m @ 5.9g/t Au, 2.6% Sb, 12.0g/t AuEq

From	To	Interval	Au g/t	Sb %	Au Eq
116.2	116.4	0.2	4.7	6.1	19.2
116.4	116.9	0.5	26.2	2.1	31.2
116.9	117.6	0.7	4.2	6.7	19.9
117.6	118.2	0.6	4.5	3.3	12.3
118.2	118.6	0.4	9.6	3.0	16.7
118.6	119.4	0.8	17.3	7.1	34.1
119.4	120.1	0.7	11.1	0.4	12.1
120.1	120.8	0.7	7.2	2.7	13.6
120.8	121.4	0.5	1.6	0.1	1.8
121.4	122.2	0.8	3.6	1.0	5.9
122.2	122.6	0.4	5.1	2.1	10.0
122.6	123.4	0.8	4.6	0.0	4.6
123.4	124.0	0.6	4.6	0.0	4.6
124.0	124.5	0.5	5.6	7.1	22.4
124.5	125.1	0.6	1.1	0.0	1.2
125.1	125.8	0.7	1.9	0.1	2.2
125.8	126.4	0.5	11.5	0.2	12.0
126.4	127.0	0.7	4.1	19.2	49.5
127.0	127.7	0.7	7.1	4.8	18.4
127.7	128.7	1.0	6.1	0.0	6.1
128.7	129.5	0.8	3.3	0.1	3.5
129.5	130.1	0.6	7.0	0.0	7.1
130.1	130.6	0.5	4.1	0.1	4.3
130.6	131.1	0.5	9.4	4.8	20.7
131.1	131.4	0.3	9.9	1.2	12.6
131.4	131.8	0.4	6.7	20.9	56.0
131.8	132.6	0.8	2.2	0.1	2.3
132.6	133.2	0.6	5.5	0.2	6.1
133.2	133.6	0.5	8.2	4.1	18.0
133.6	134.5	0.8	2.0	0.0	2.0
134.5	135.0	0.5	4.3	0.6	5.7
135.0	135.9	0.9	0.8	0.0	0.9
135.9	136.8	0.9	2.8	0.0	2.8
<b>116.2</b>	<b>136.8</b>	<b>20.7</b>	<b>5.9</b>	<b>2.6</b>	<b>12.0</b>



131.4 to 131.8m that assayed 6.7g/t Au, 20.9% Sb for 56.0g/t AuEq.

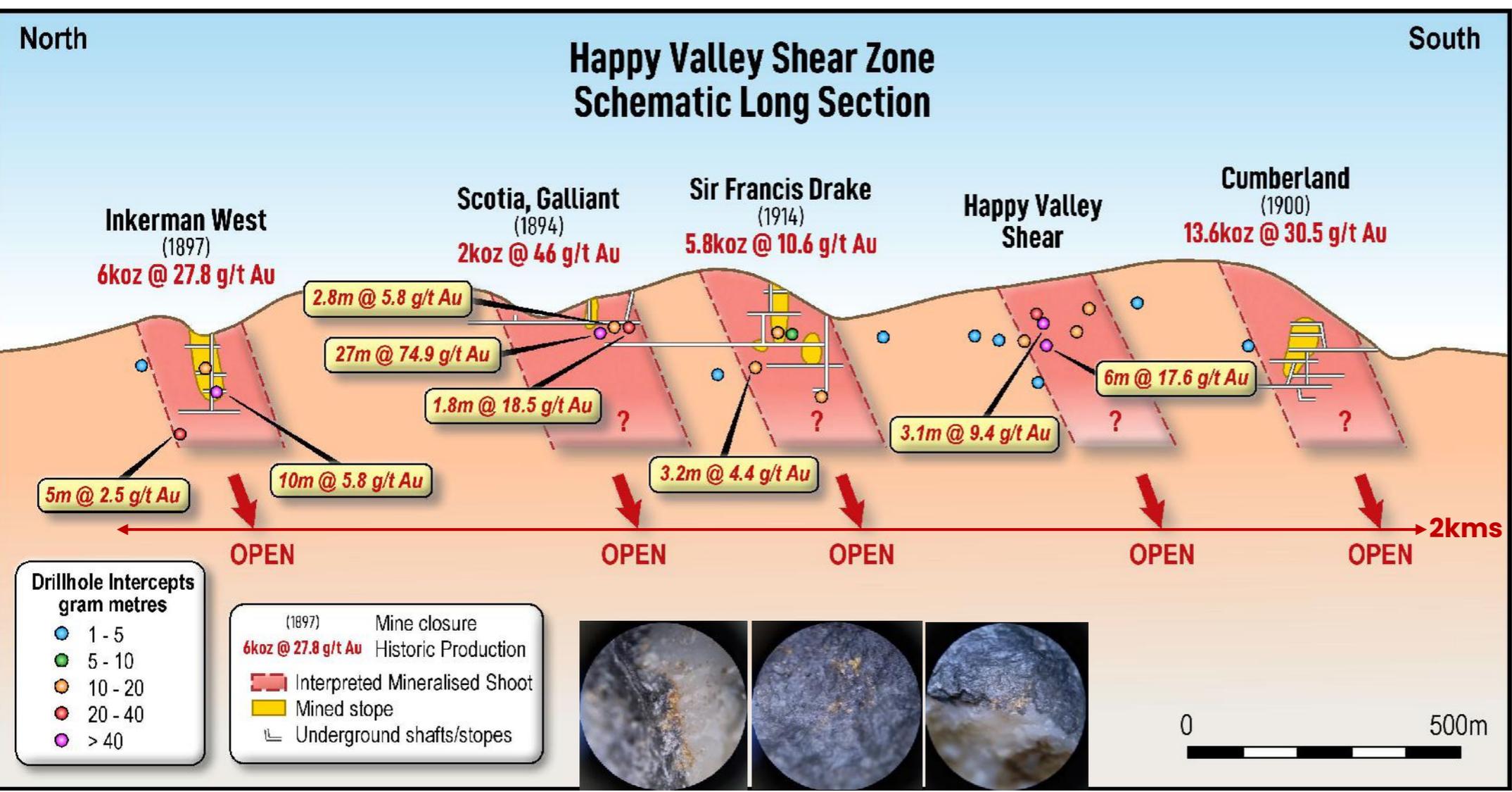
# Cumberland: Historical Production 1.1Moz @ 6g/t Au



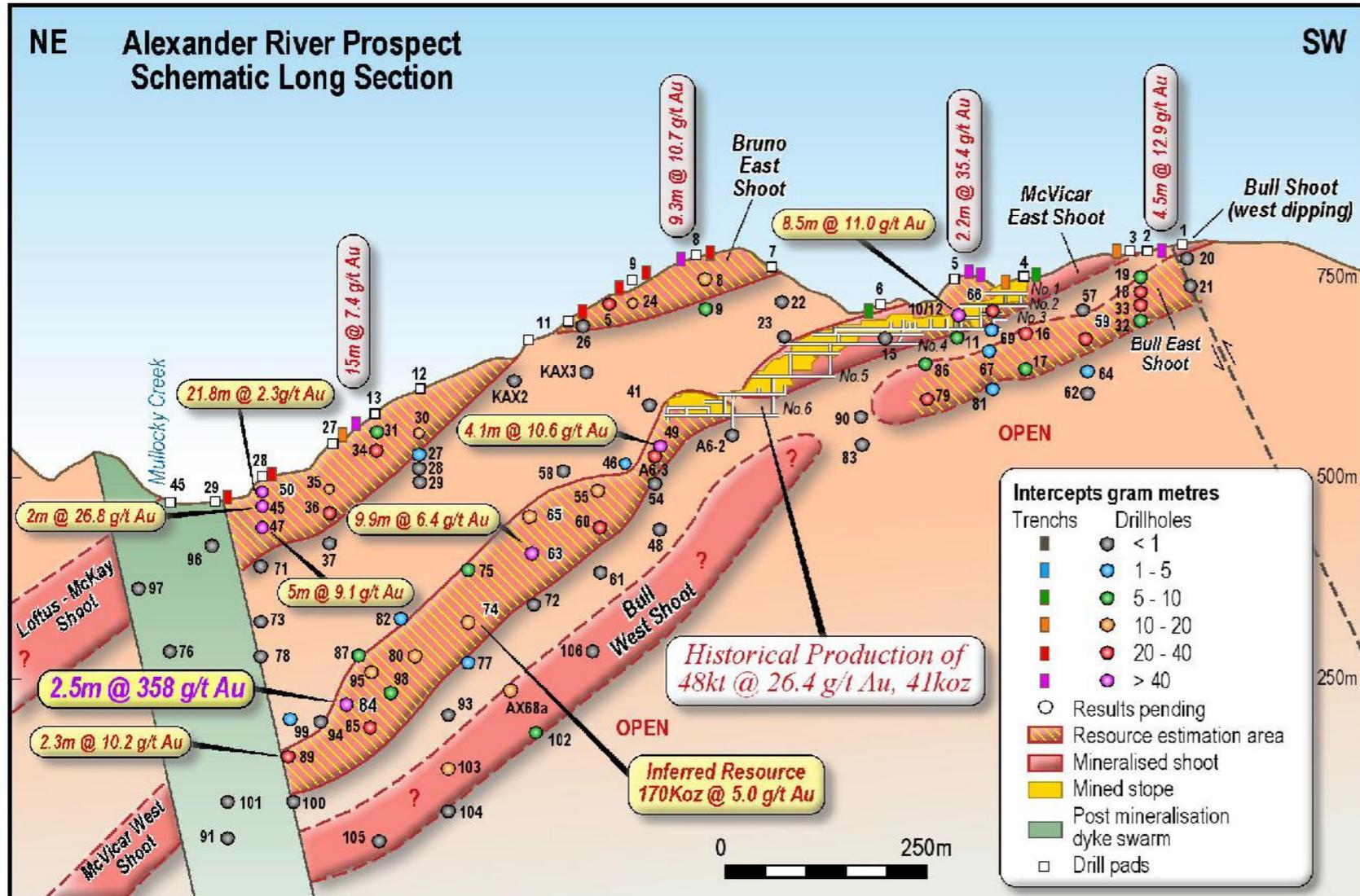
- The Cumberland permit comprises the northern and southern part of Oceana Gold's previous Globe Progress mining permit.
- The total Globe Progress gold production was **1.1Moz @ 6g/t Au** including **420koz @ 12.2g/t Au** underground and **700koz @ 2g/t Au** in an open pit.
- The Cumberland permit has a historic production of **45koz @ 14.2g/t Au**.
- The Cumberland permit mineralisation extends for 3km south of the Globe Progress and is open to the west (under cover) and to the south.
- The Cumberland tenement **follows the main structural corridor** that hosts the larger mines in the Reefion Goldfield and links to Siren very promising Auld Creek Au-Sb prospect.
- The stibnite mineralisation extends for 10kms from Auld Creek south through Globe Progress, Souvenir, Supreme and Big River



# Reefton: Cumberland Project – 2km Drill Ready Target



# Alexander River Mine: MRE 170koz @ 5.0g/t Au



Mine closed in 1942 due to WWII

1.2km quartz Reef trenching +800m long,  
4m wide @ ~8g/t Au.

Mineral Resource Estimate

- 170koz @ 5.0g/t Au

## Best Drill Holes Alexander River

2.5m @ 358g/t Au

3.0m @ 10.8g/t Au

8.0m @ 11.0g/t Au

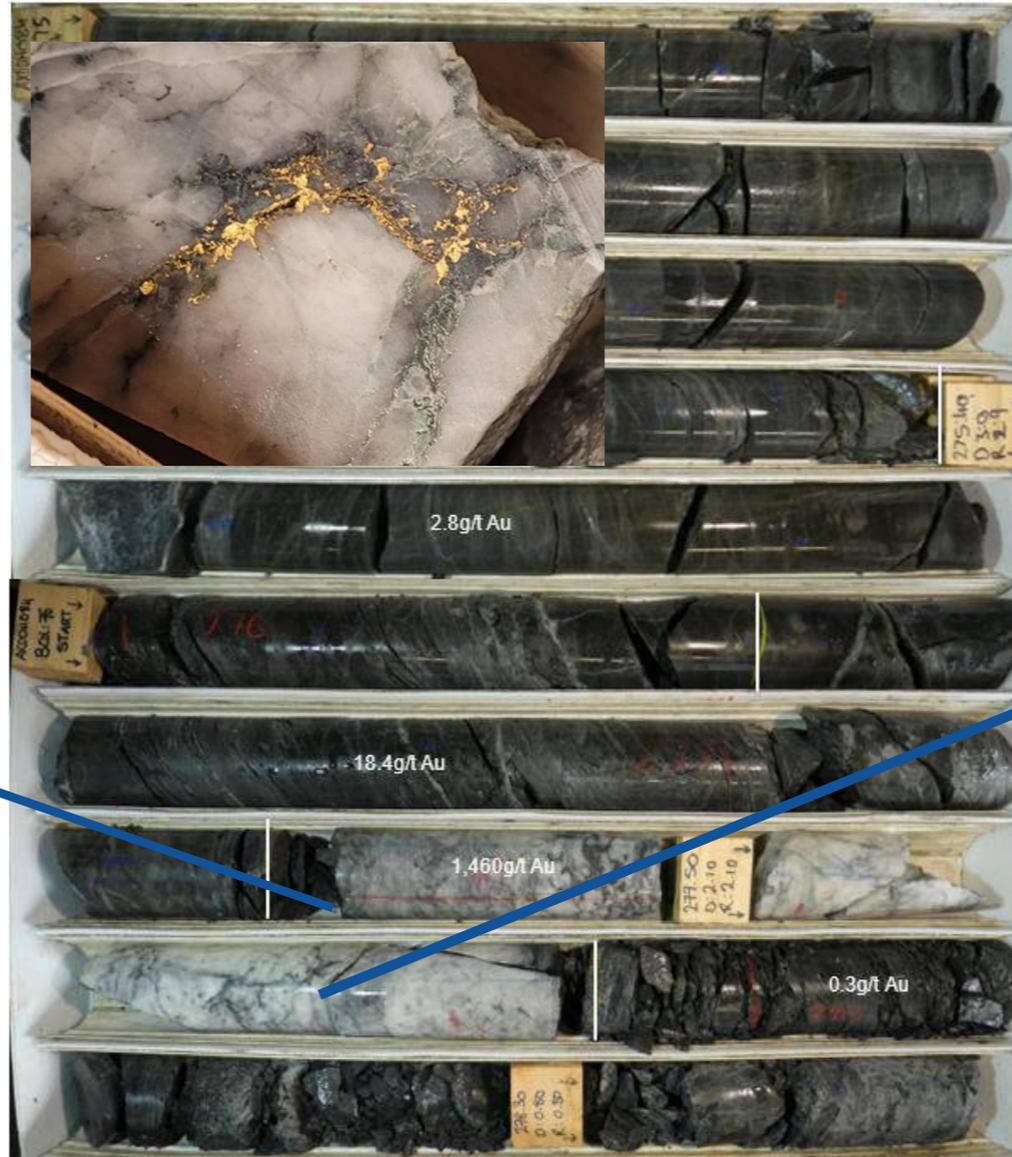
2.0m @ 26.8g/t Au

4.1m @ 10.6g/t Au

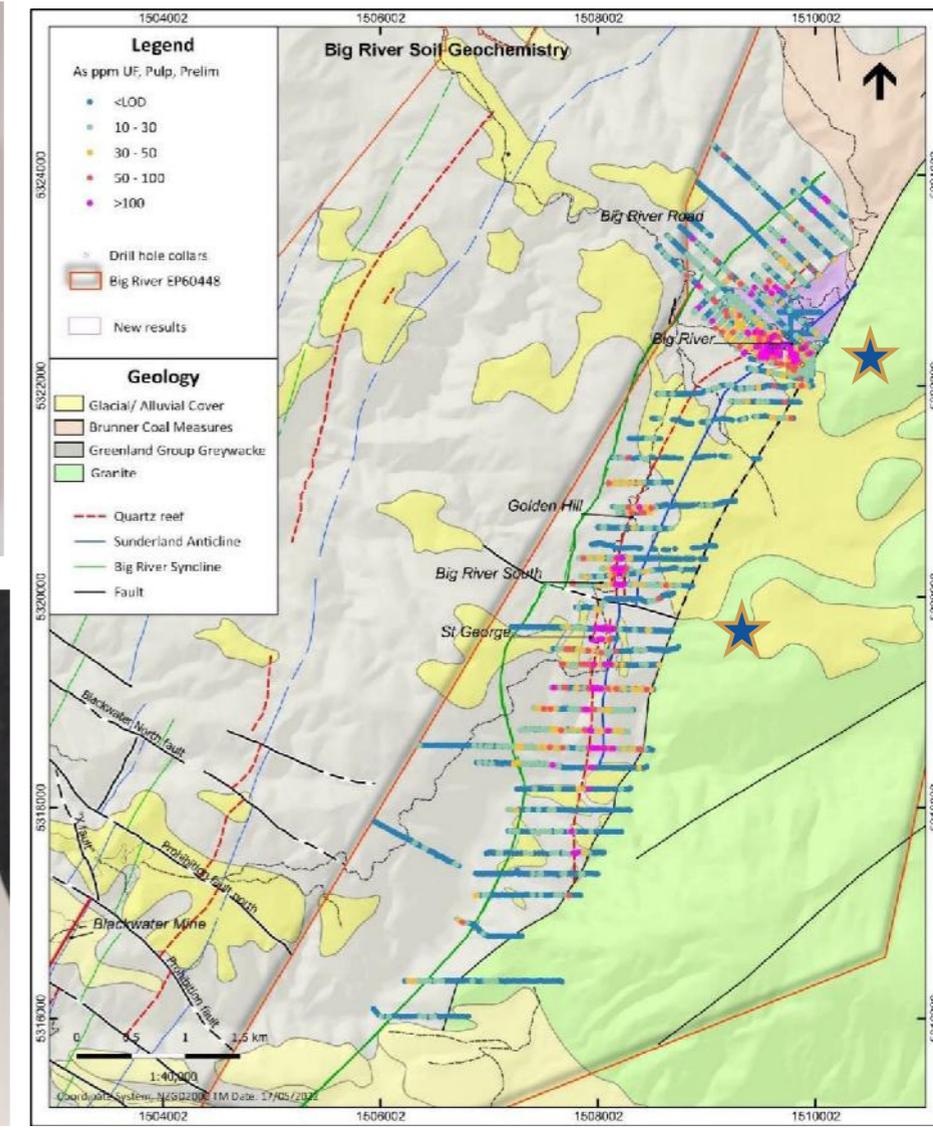
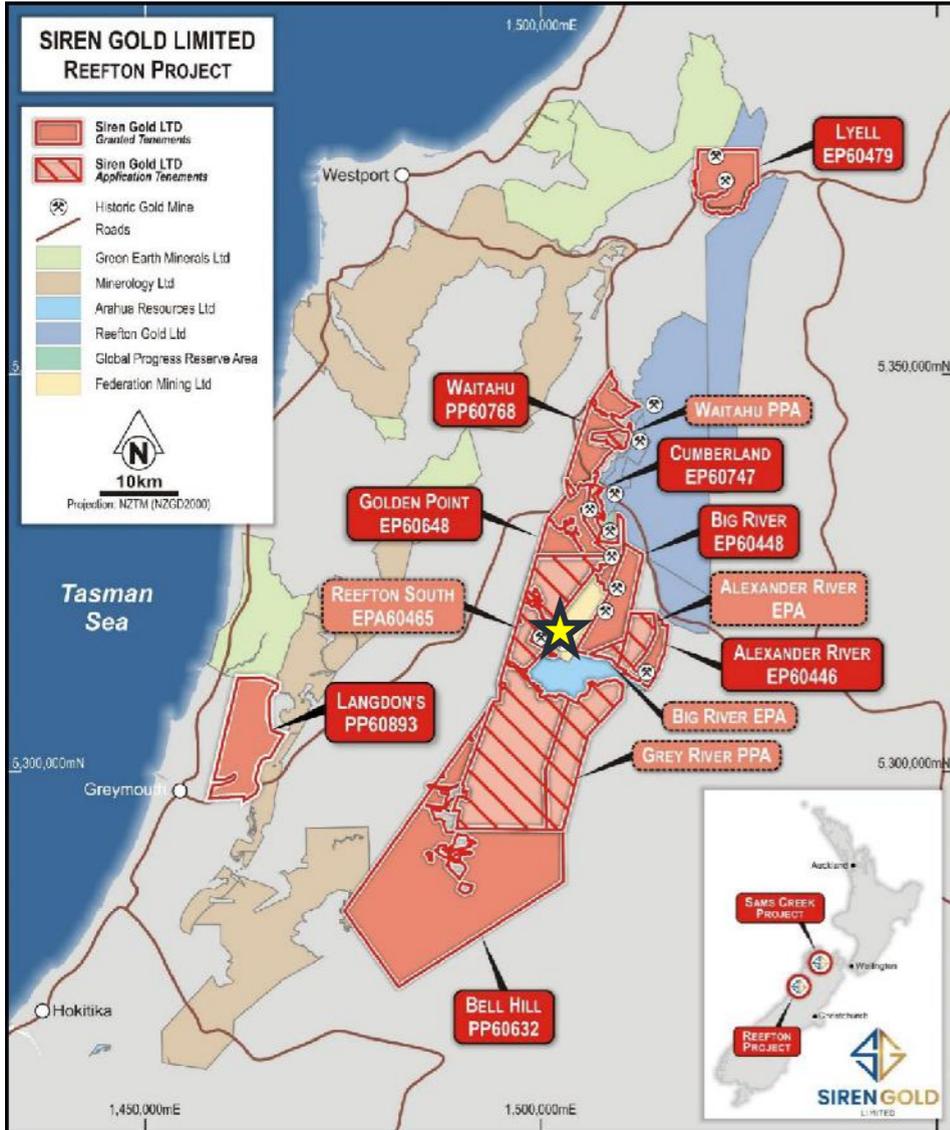
5.0m @ 8.7g/t Au

2.1m @ 19.3g/t Au

# Alexander River: McVicar West shoot 2.5m @ 358g/t Au



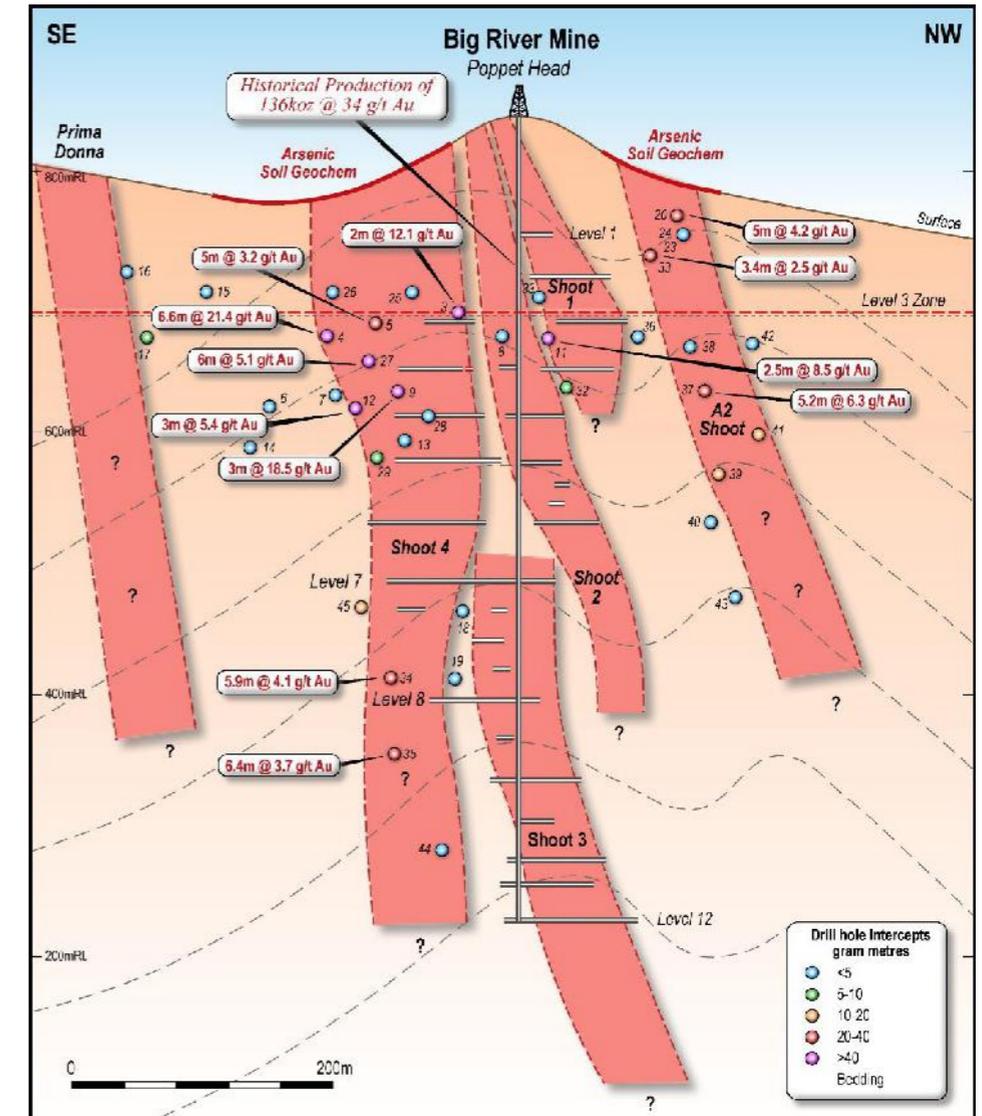
# Big River: 4km+ Strike Length of Gold & Antimony



# Big River: Historical Production 136koz @34.1g/t Au Rec

- Mined closed during WW II in 1942 producing **136koz @ 34.1g/t Au**
- **Inferred MRE 105koz @ 3.94g/t Au**
- Big River contains massive high-grade **Stibnite/Antimony**

Big River Drill hole Intercepts	
6.6m @ 21.4g/t Au	Shoot 4
3.0m @ 18.5g/t Au	Shoot 4
2.0m @ 12.1g/t Au	Shoot 4
6.0m @ 5.1g/t Au	Shoot 4
5.9m @ 4.1g/t Au	Shoot 4
5.2m @ 6.3g/t Au	A2 Shoot
5.0m @ 4.2g/t Au	A2 Shoot
2.5m @ 8.5g/t Au	Shoot 1



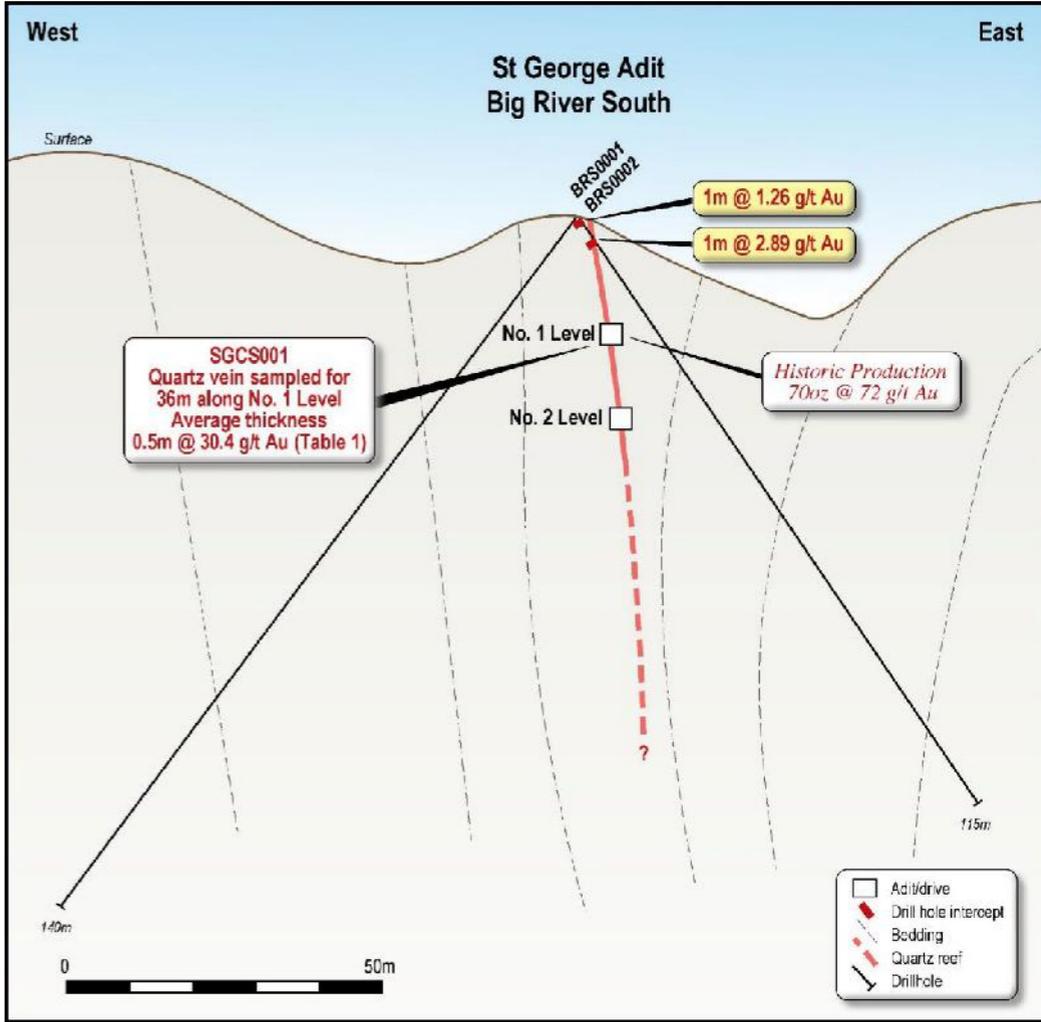
# Big River South: UG Quartz Reef Sampling 30.7g/t – 144g/t Au



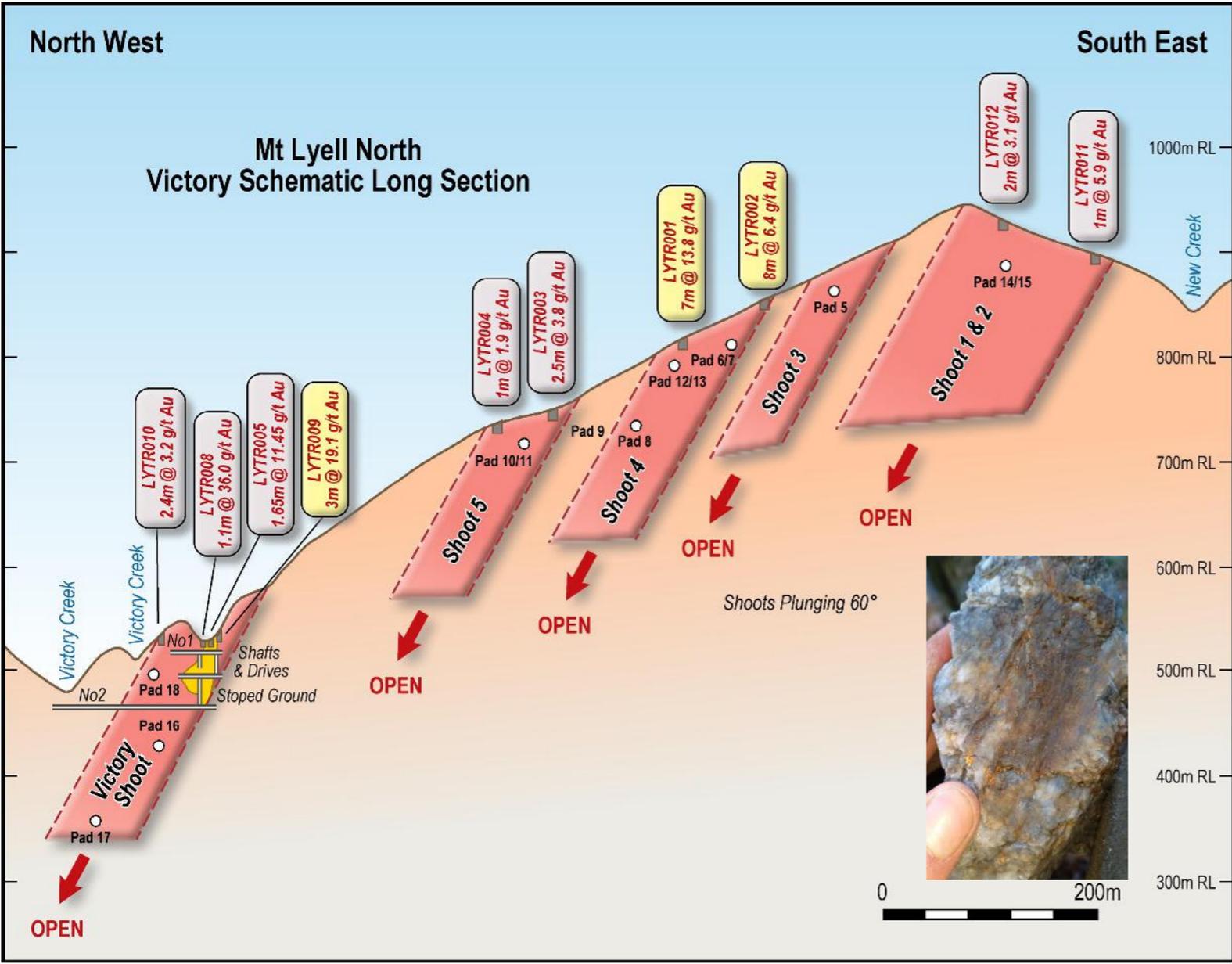
Recent rock chip sampling at Big River South confirms high grade gold mineralisation with visible gold evident at the St George target. Sampling of the quartz reef in Level 1 of the historic St George mine, returned grades up to 144.0g/t Au, with an average grade of 30.7g/t Au.



Image Above. Quartz from St George Adit showing sulphitic stylolites within white quartz veins, comprising numerous grains of arsenopyrite. A large cluster of native gold is seen beside the lower stylolite (Shand 20154)



# Lyell: 4km strike from Alpine to United Victory – Drill Ready



## Mt Lyell North Trenches

**7.0m @ 13.8g/t Au**

**8.0m @ 6.3 g/t Au**

## United Victory Channels

**3.0m @ 19.1g/t Au**

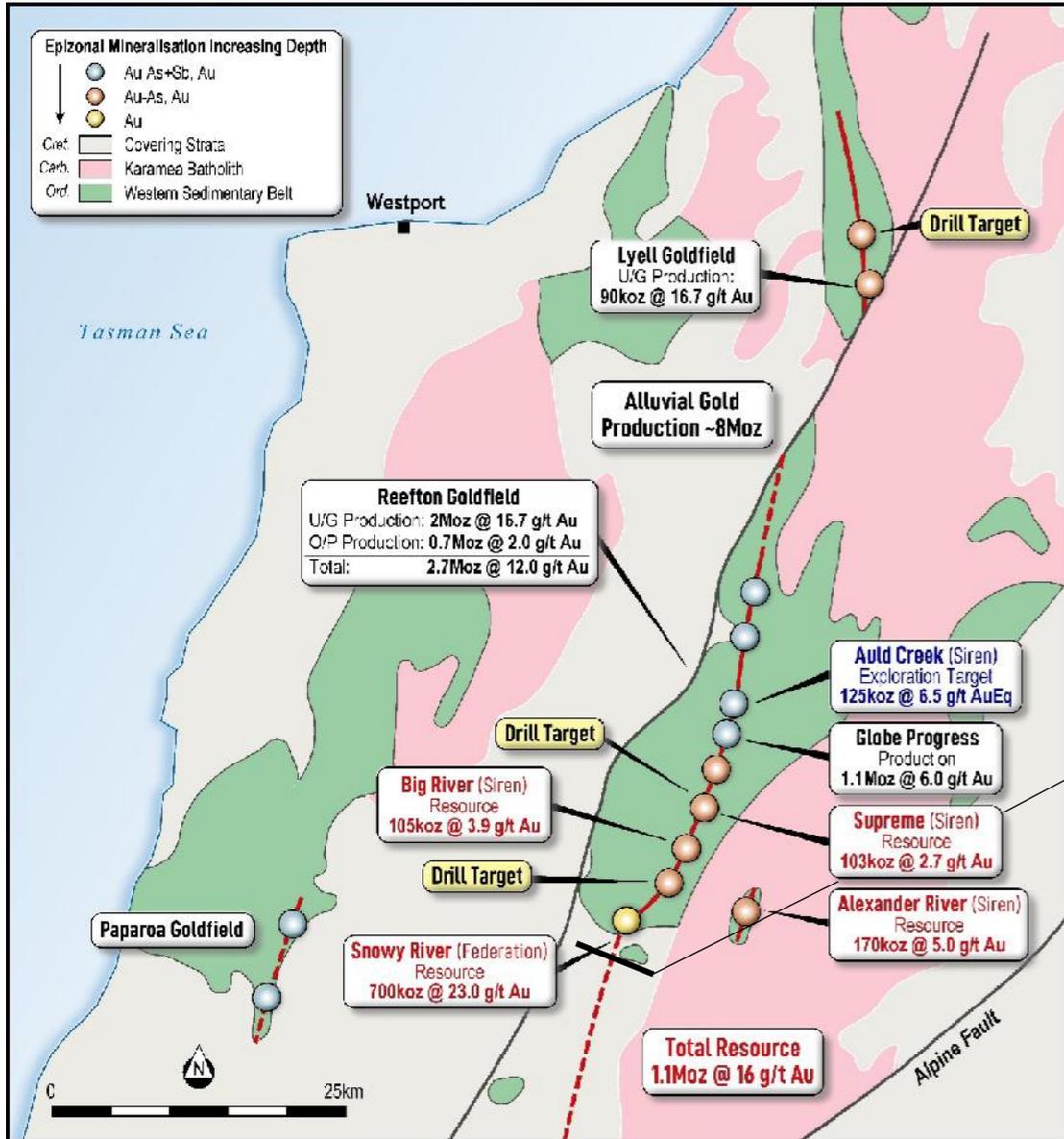
**1.1m @ 36.0 g/t Au**



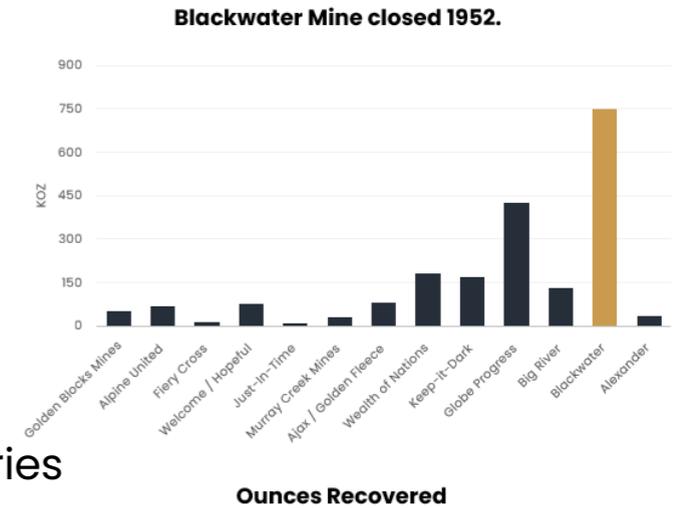
# Lyell: United Victory Reef Gold Specimen Pieces



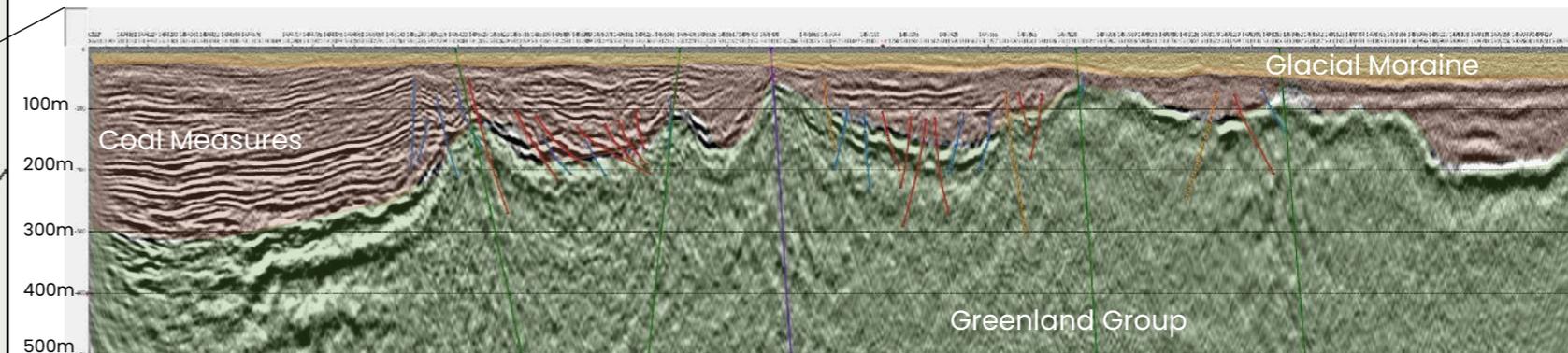
# Reefton South: Significant 20km Long Exploration Corridor



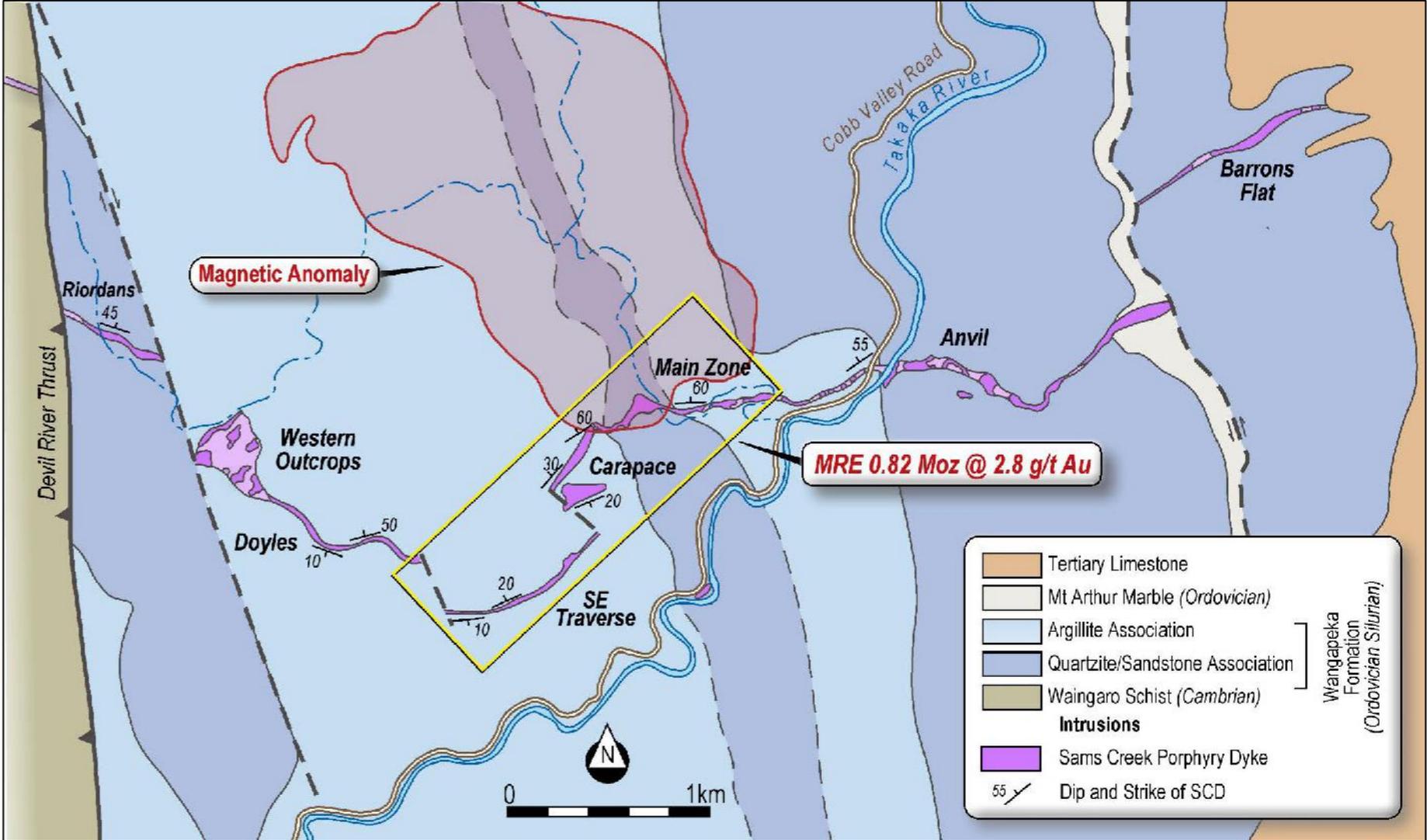
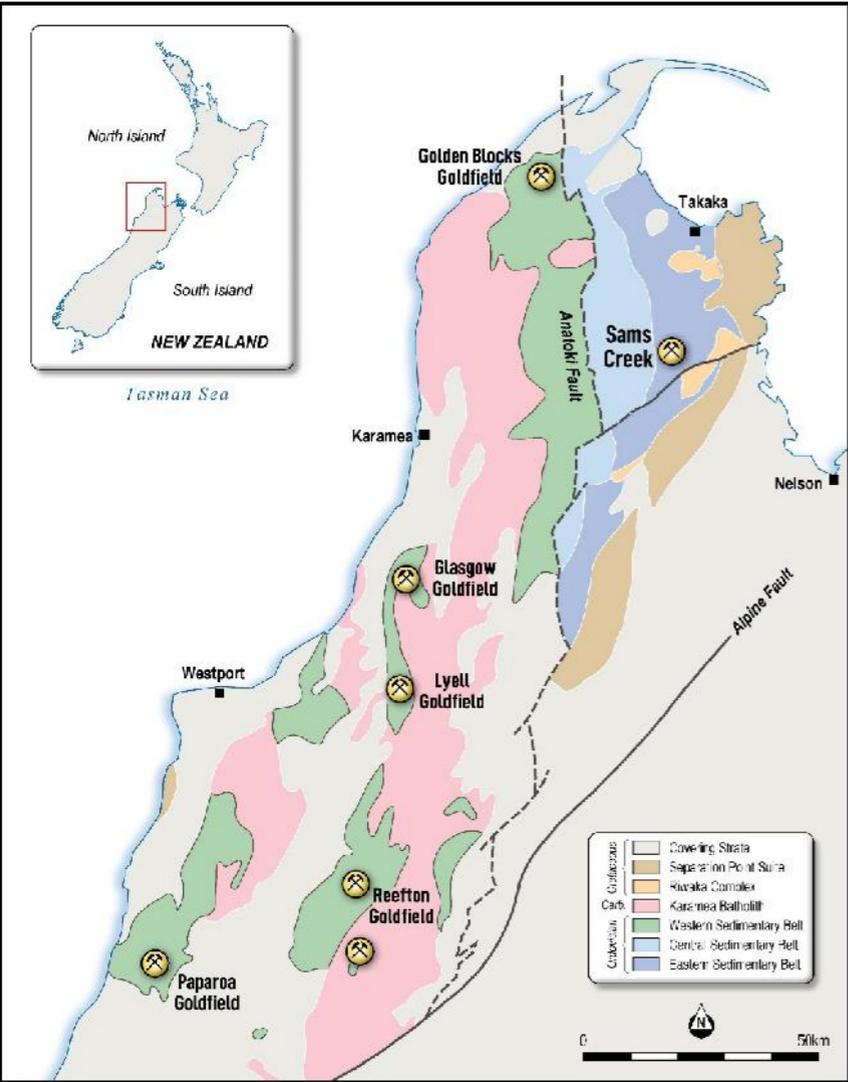
- The Reefton South Tenement is ~333sq. km and is considered to be an ~20km+ extension of the Reefton Goldfield, but undercover.
- These Greenland Group rocks lie beneath a glacial moraine cover which has masked outcrop from previous explorers.
- **Huge opportunity** exists for new discoveries by applying modern techniques.



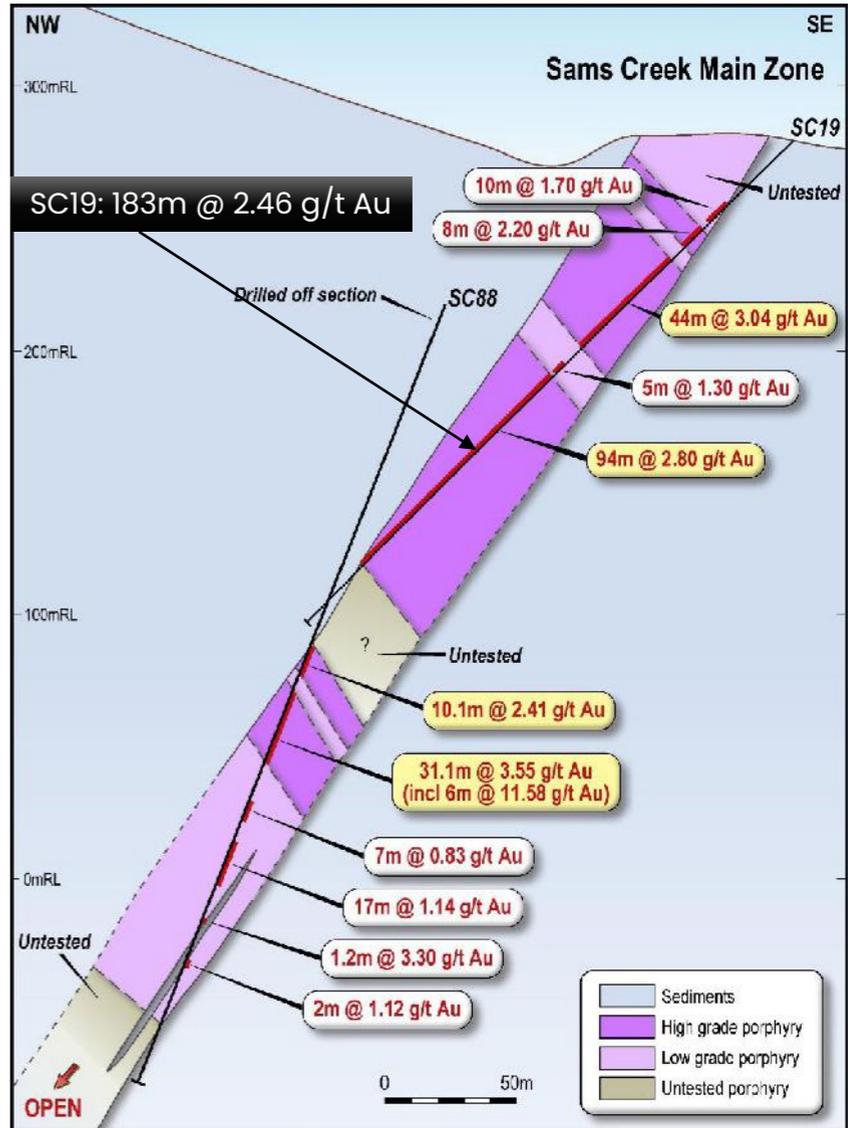
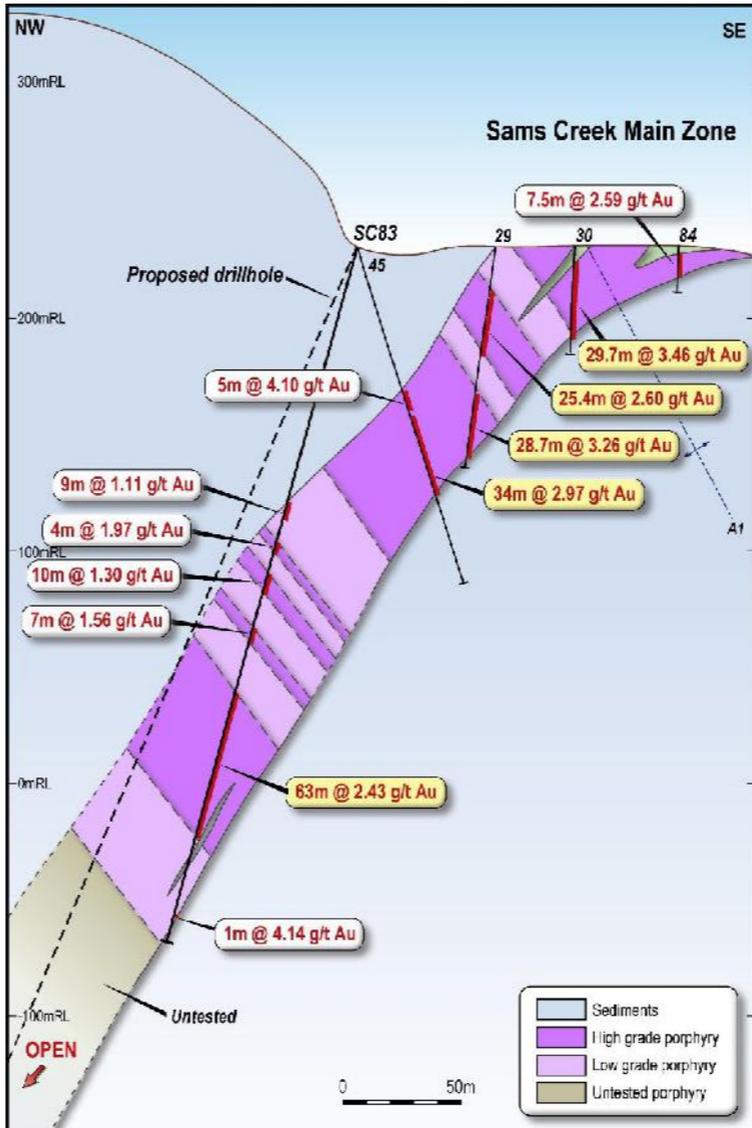
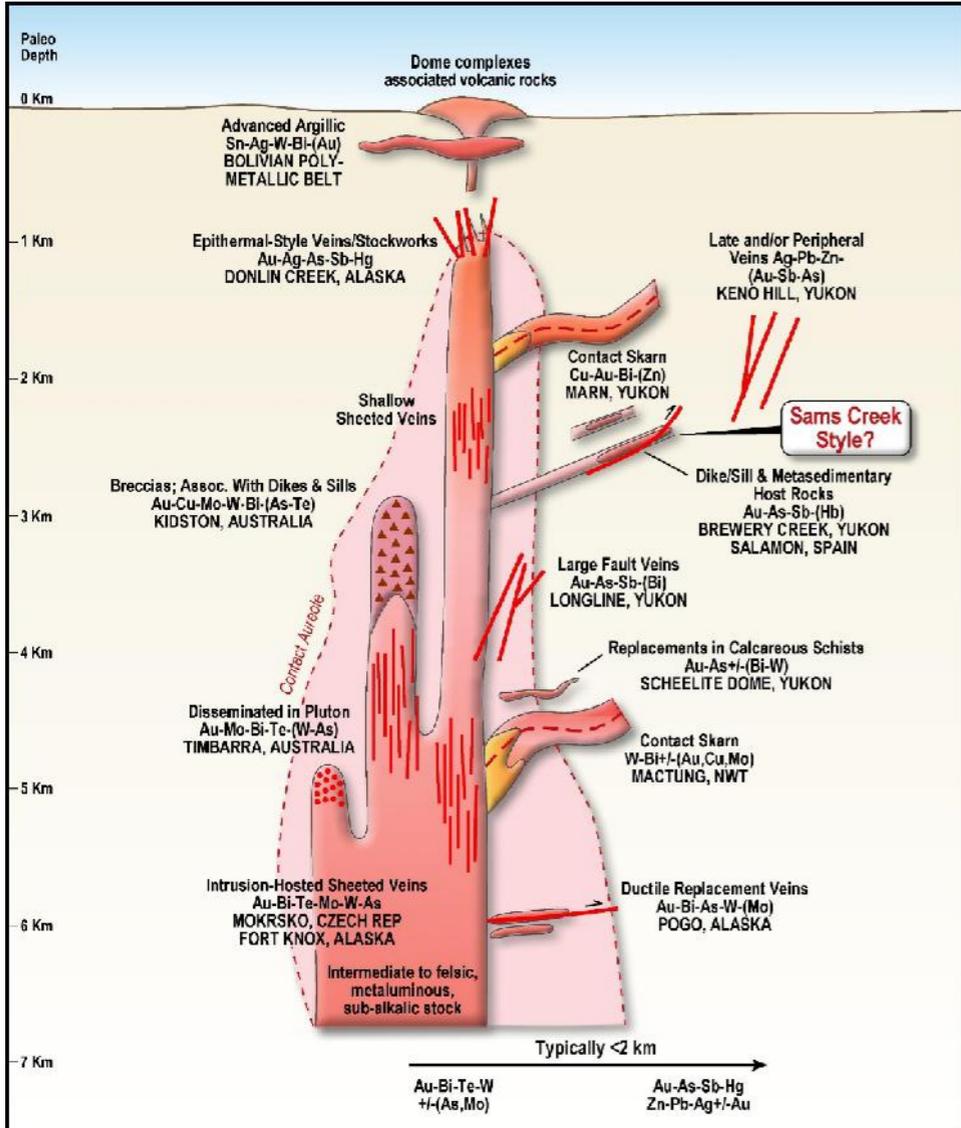
## Seismic Section



# Sams Creek: 7km long mineralized dyke – 800,000oz resource



# Sams Creek: Intrusive Related Gold Deposit (IRGD)



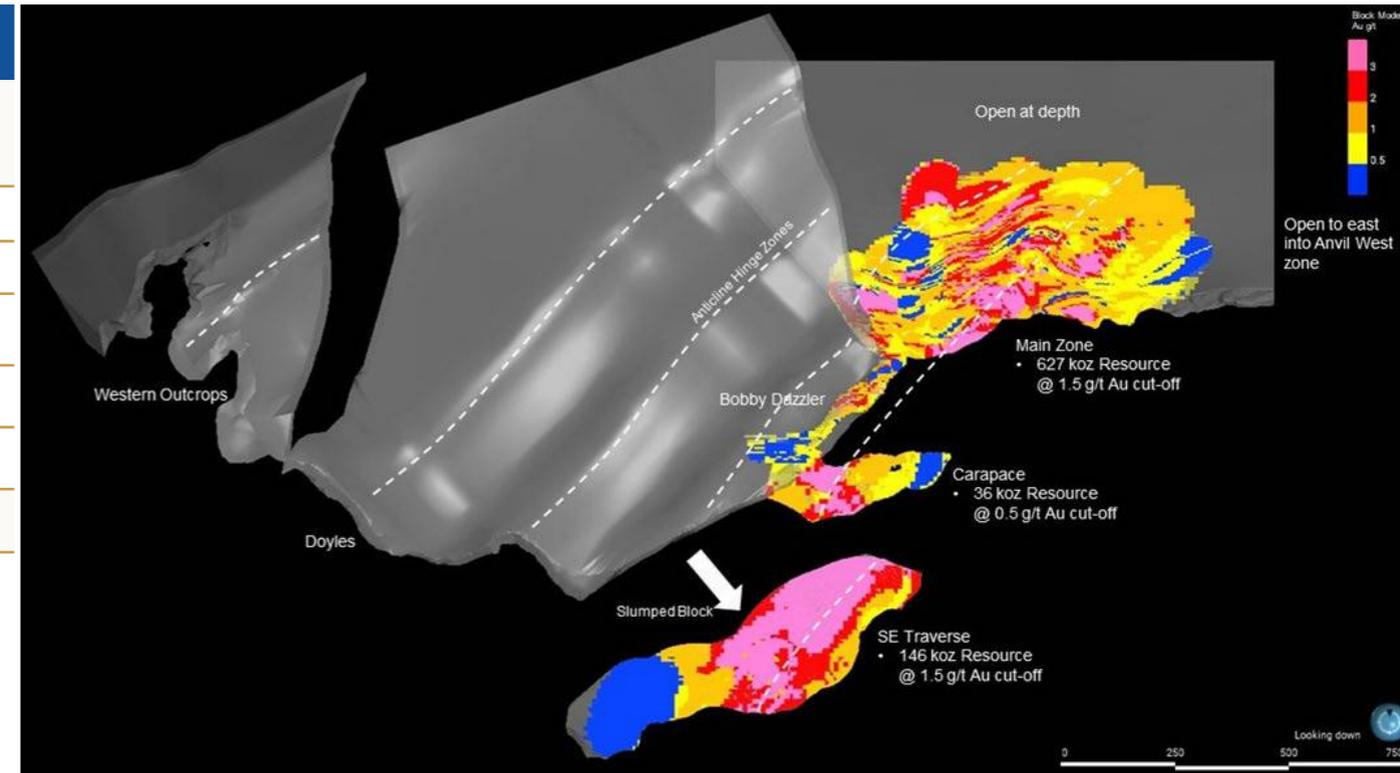
# Sams Creek Mineral Resource: Open in all Directions

## 2022 Sams Creek Mineral Resource Estimate – 1.5g/t cut-off

Prospect	Status	Cut-Off (g/t)	Tonnes (Mt)	Au (g/t)	Ounces (koz)
Main Zone	Indicated	1.5	3.29	2.80	295.6
Main Zone	Inferred	1.5	3.79	2.71	330.0
SE Traverse	Inferred	1.5	1.17	3.56	146.1
Carapace	Inferred	0.5	0.54	2.06	36.0
Bobby Dazzler	Inferred	1.5	0.20	2.59	16.7
<b>Total</b>	<b>I &amp; I</b>		<b>9.10</b>	<b>2.82</b>	<b>824.4</b>

## 2022 Sams Creek Mineral Resource Estimate – 1.85g/t cut-off

Prospect	Status	Cut-Off (g/t)	Tonnes (Mt)	Au (g/t)	Ounces (koz)
Main Zone	Indicated	1.85	2.68	3.05	262.6
Main Zone	Inferred	1.85	2.68	3.10	266.5
SE Traverse	Inferred	1.85	1.17	3.72	140.6
Carapace	Inferred	0.5	0.54	2.06	36.0
Bobby Dazzler	Inferred	1.85	0.16	2.76	14.9
<b>Total</b>	<b>I &amp; I</b>		<b>7.23</b>	<b>3.10</b>	<b>720.6</b>

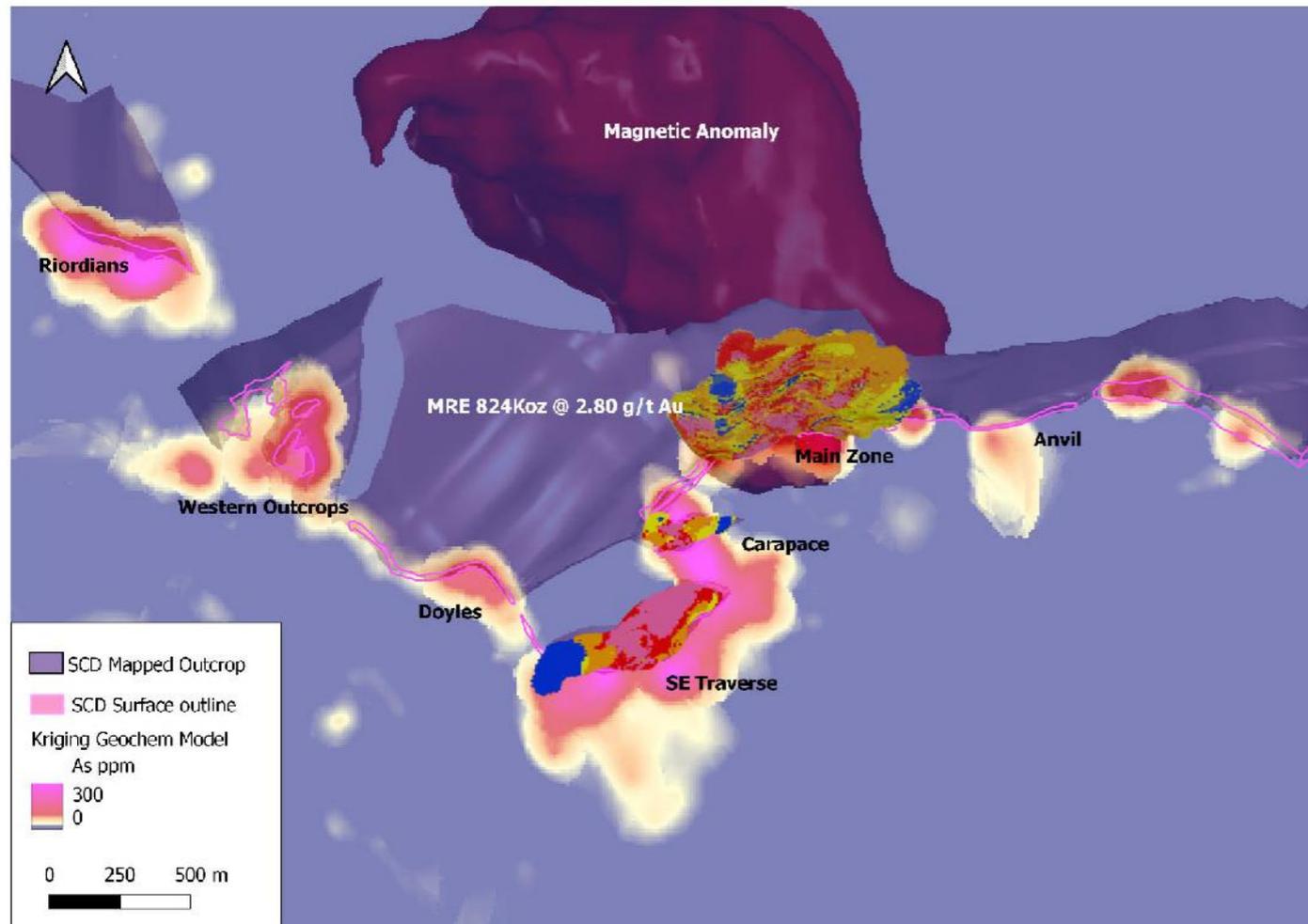


Plan view of undrilled SCD (grey) and new MRE block model (magenta high grade, blue low grade).

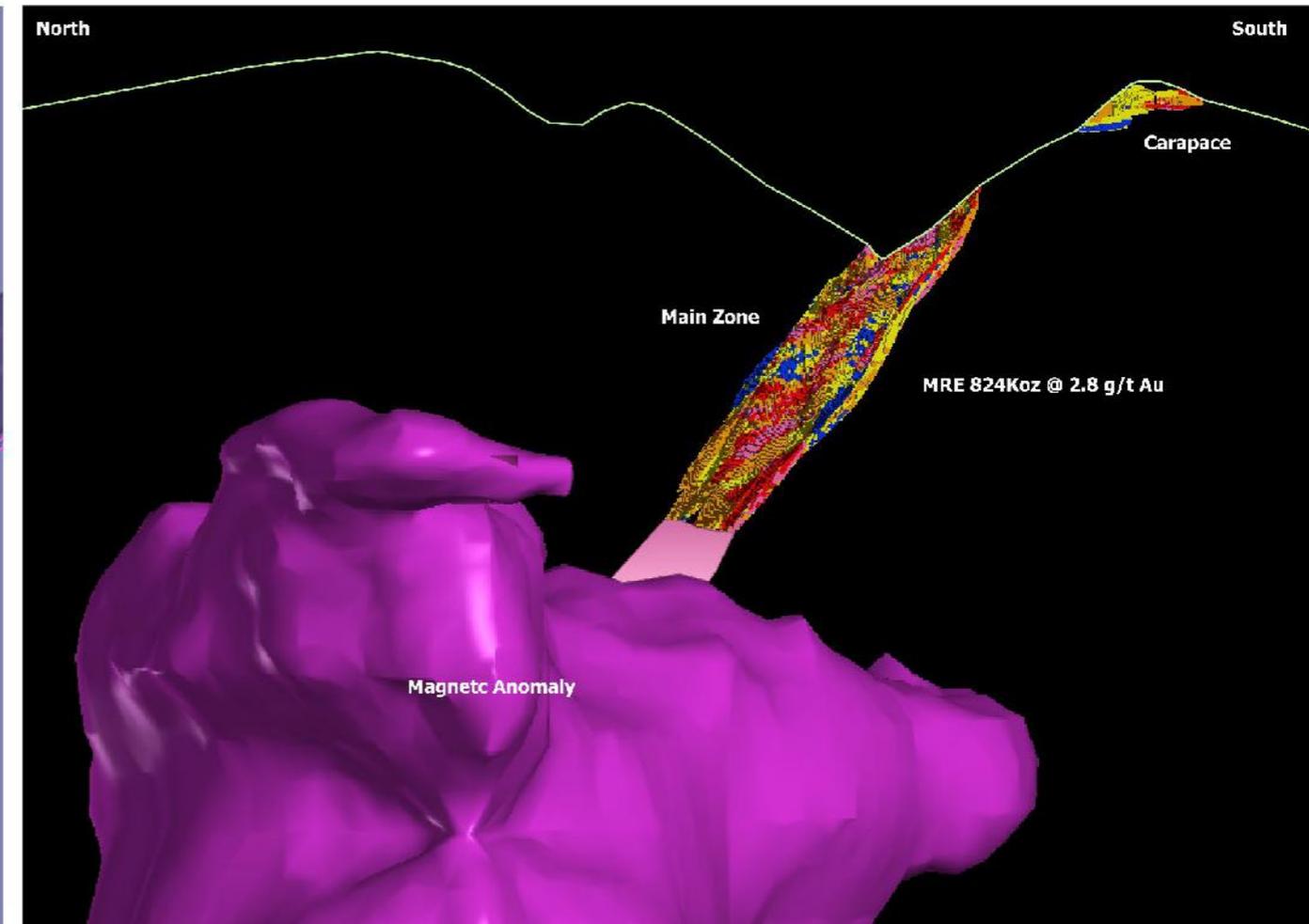
Sams Creek remains open in all directions with significant potential for resource growth

# Sams Creek: Soil Geochemistry, MRE and Magnetic anomaly

## Plan View

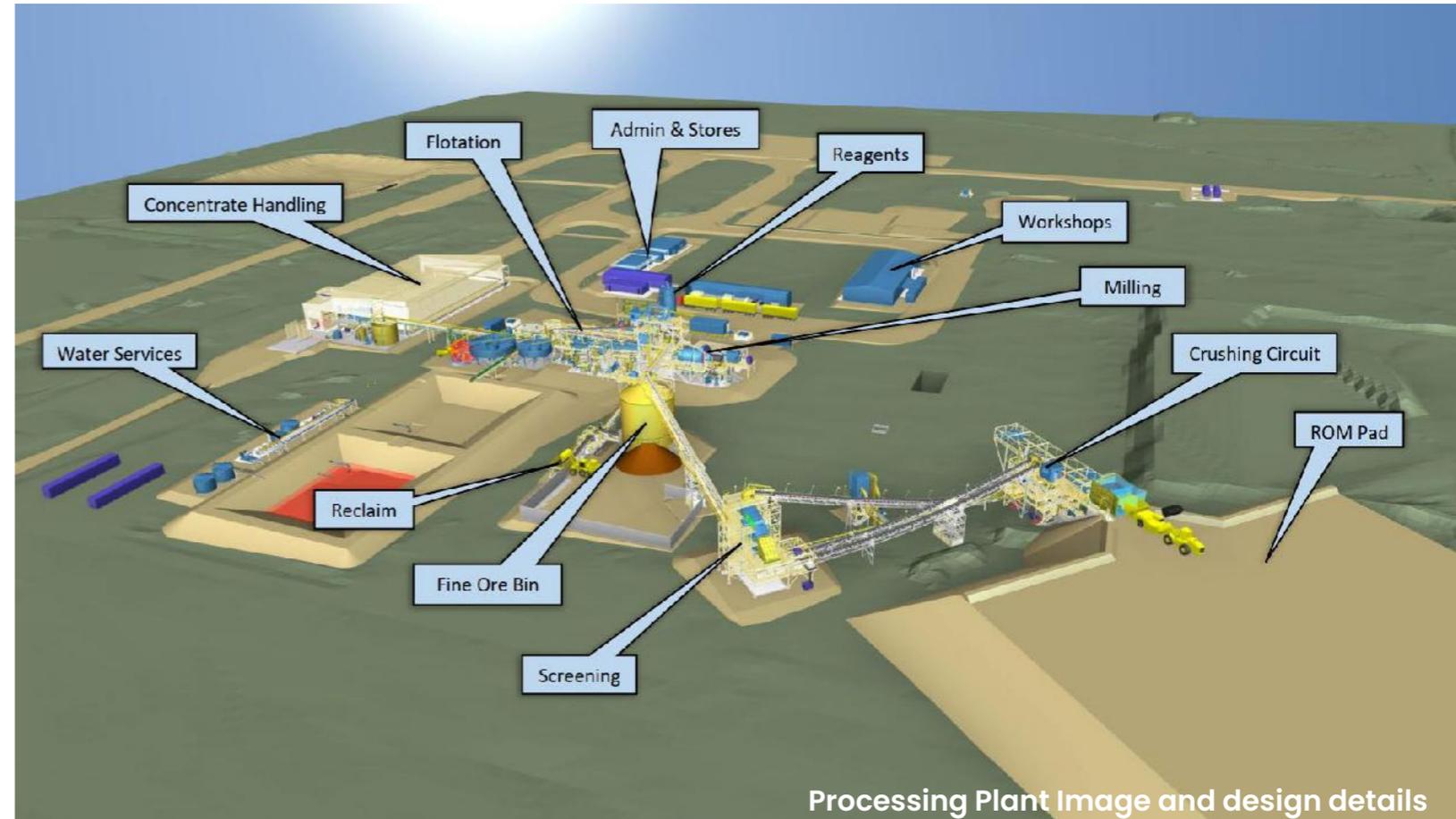


## Oblique View



# Metallurgical Testwork & Process Plant Design

- **Positive preliminary metallurgical testwork results** from samples from Alexander River and Big River Projects
- Total recovery of 90% to 93% is estimated if processed with POX
- Preliminary pressure oxidation of the flotation concentrate tests followed by cyanidation gave **gold extractions 92-98%**
- Scoping Study reflects the test results with a **conventional crush, grind, gravity and flotation flowsheet to produce a saleable concentrate**
- Sams Creek testwork (2004) indicates that a recovery of 90-95% could be achieved with flotation and POX and a similar flowsheet to Reefion would be applicable
- Sams Creek recoveries achieved 89% to 96% by flotation and POX
- Ore Sorting testwork indicates Reefion and Sams Creek samples are amenable to the technology



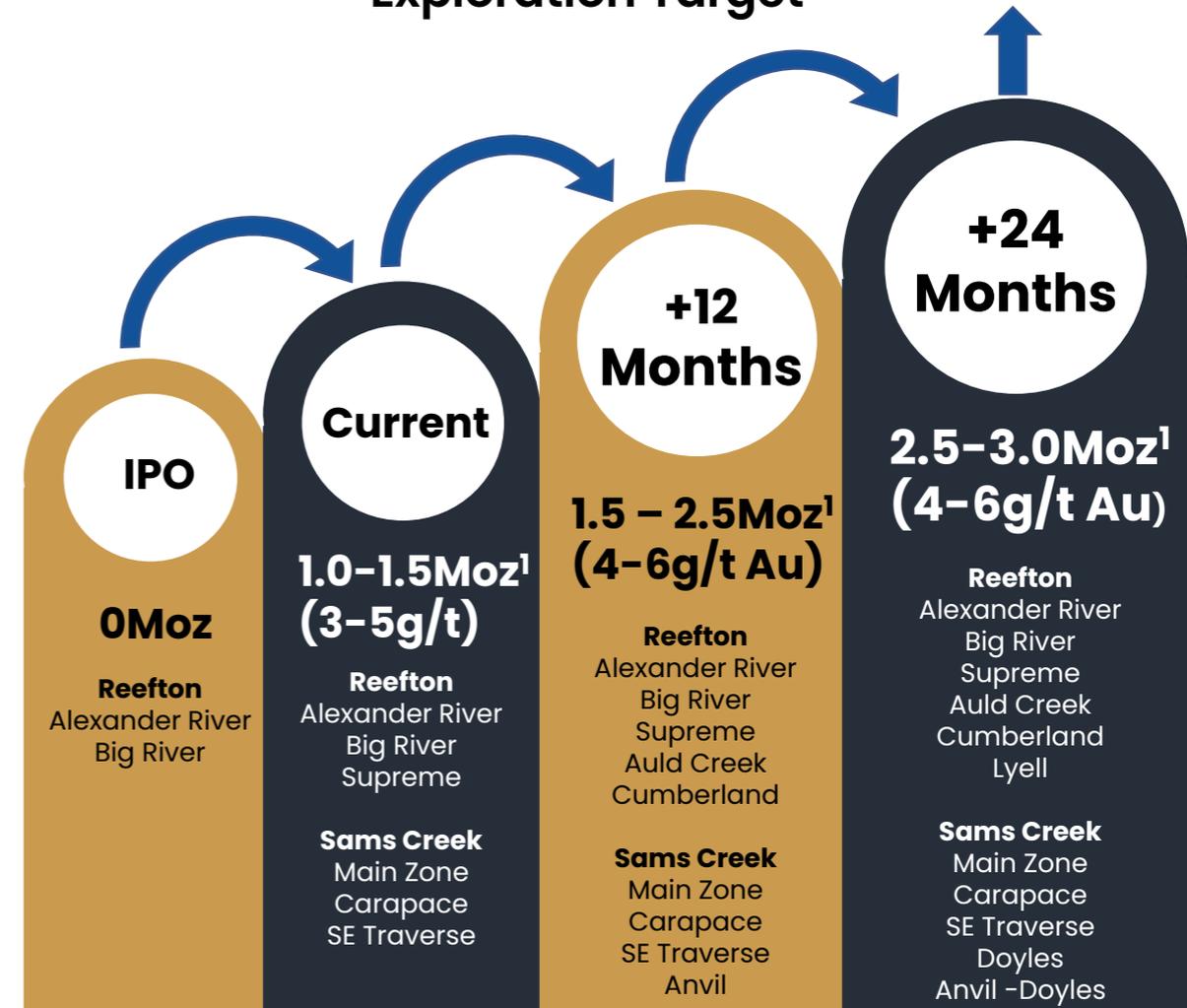
# Why Invest in Siren Gold?

- Siren has achieved significant growth since listing with a Global MRE **zero to 1.2Moz @ 3.1g/t Au** with **500koz @ 4.2g/t Au** added in the last 12 months.
- Significant potential at both Reefton and Sams Creek to grow resource base to over **2.5–3.0Moz** over the next **24 months**.
- Exposure to **high-grade Antimony**, a key critical & strategic metal that is controlled by China and Russia.
- Siren is significantly undervalued with a low Market Cap of \$15M.

## Global Resource Estimate at a 1.5g/t Au cut-off (100% basis)

Project	Status	Cut-off (g/t)	Tonnes (Mt)	Au (g/t)	Ounces (koz)
Sams Creek*	Indicated	1.5	3.29	2.80	295.6
<b>Total</b>	<b>Indicated</b>	<b>1.5</b>	<b>3.29</b>	<b>2.80</b>	<b>295.6</b>
Sams Creek*	Inferred	1.5	5.81	2.83	528.8
Alexander River*	Inferred	1.5	1.07	4.95	169.6
Big River*	Inferred	1.5	0.83	3.94	105.5
Supreme	Inferred	1.5	1.05	2.71	103.3
<b>Total</b>	<b>Inferred</b>	<b>1.5</b>	<b>8.76</b>	<b>3.18</b>	<b>907.2</b>
<b>Total</b>	<b>Indicated + Inferred</b>	<b>1.5</b>	<b>12.05</b>	<b>3.08</b>	<b>1,203</b>

## Drilling over the next 12–24 months to build the Exploration Target



**Note 1:** The potential quantity and grade of this Exploration Target is conceptual in nature as there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.



**Brian Rodan**  
FAusImm  
**Executive Chairman**

Fellow of the Australian Institute of Mining and Metallurgy (FAusIMM) with 45 years of contract mining experience globally.



**Paul Angus**  
BSC Hons Geology  
MAusIMM  
**Executive Technical Director**

Geologist with 30+ years of mining & geology experience in NZ  
Responsible for >3Moz discoveries at Macraes, Reefton and Sams Creek  
Graduate from Otago University.



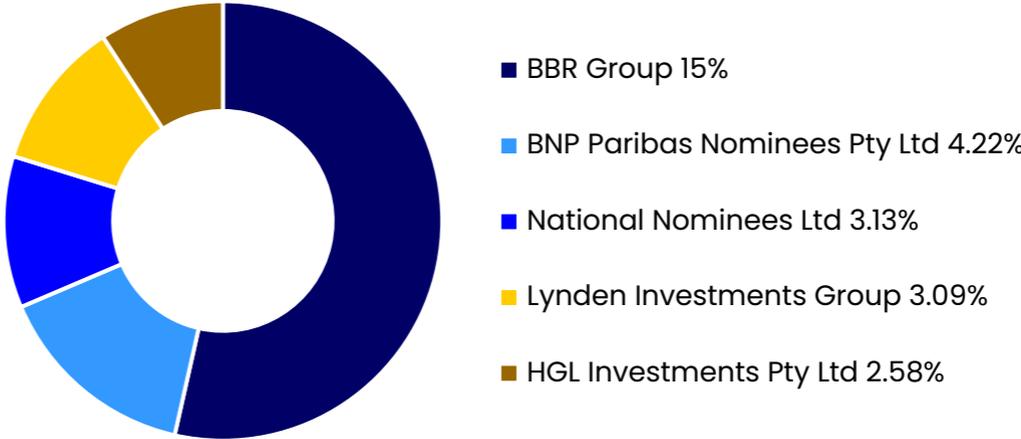
**Keith Murray**  
Bacc CAANZ  
**Non-Executive Director**

Chartered accountant with 40 years experience at General Manager level in audit, accounting, tax, finance, treasury and corporate governance.

### Capital Structure

ASX Code	SNG
Share Price	13 cents
Shares on Issue	135,525,475
Options/Performance Rights	9,293,262
Market Capitalisation	\$15m

### Major Shareholders





# SIREN GOLD

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ASX CODE: SNG

