# SILVER CITY MINERALS LIMITED



# Silver City Minerals

Annual General Meeting 15 November 2016

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#### **Competent Person**

Information in this document that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Christopher Torrey, who is the Managing Director and full-time employee and shareholder of Silver City Minerals Limited, and a Member of the Australian Institute of Geoscientists. Mr Torrey has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which 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". Mr Torrey consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

# Silver City Minerals: A Snapshot

#### **BROKEN HILL (Zinc-Lead-Silver and Lithium)**

Project	Work Program
Razorback West	Drilling has commenced (1000 m diamond), Government Grant \$114,800
Stephens Trig	Drilling (7 holes completed),
Balaclava	Drilling (2 holes complete), EM survey completed
Pegmatites	First pass for Lithium completed. Strong base metal anomalies from pegmatite samples

#### **COBAR (Copper-Gold-Zinc-Lead))**

Project	Work Program
Wilga Downs	Geophysics completed, Drilling about to commence (400m)

# Comparison

	2014-2015	2015-2016
Shares (million)	116	158
\$ in bank at AGM	\$1.6 million	\$1.9 million
Share Price at AGM	2.4 cents	2.8 cents
Market Cap	\$2.8 million	\$4.4 million
Area of Tenure (km²)	1200	1200
Admin Expenditure	\$639,000	\$525,000
Exploration Expenditure	\$1.28 million	\$988,000
Locations	Broken Hill, Taupo	Broken Hill, Cobar



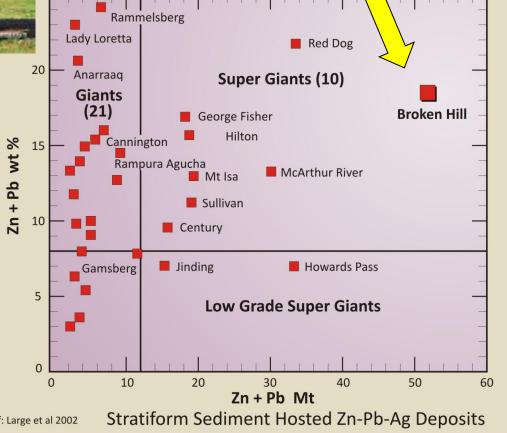
# Zinc @ Broken Hill



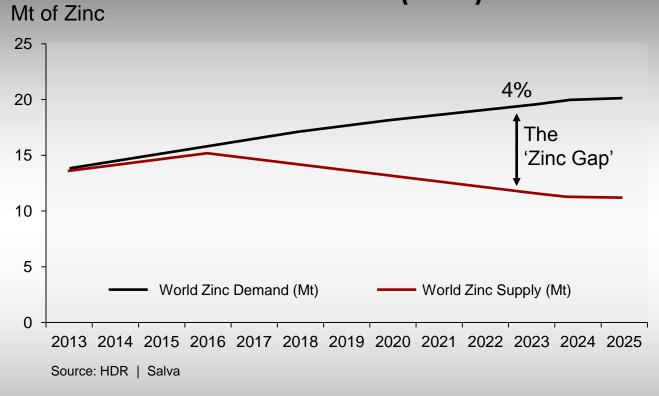
# Where does one look for

# + 1 Billion ounces Silver





# Global Zinc demand supply forecast (Mt)

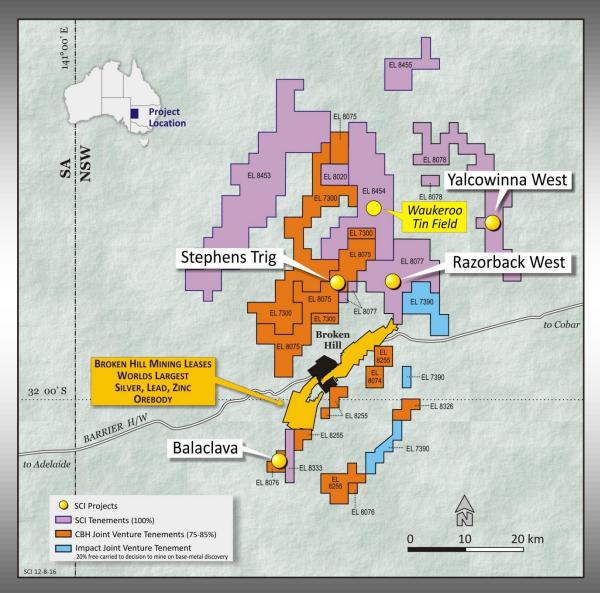


Increasing demand-supply gap forecast for 7inc

- Demand increasing
- Mines closing
- Limited new mine capacity to fill the gap

A new zinc discovery of typical high grade Broken Hill ore (+15% Zn+Pb) will fill a significant part of the shortfall

# Silver City Minerals Broken Hill



- Strong tenure position
- Belt of prospective rocks and major mineralised structures throughout the tenure
- Partnerships with CBH Resources and Impact Minerals

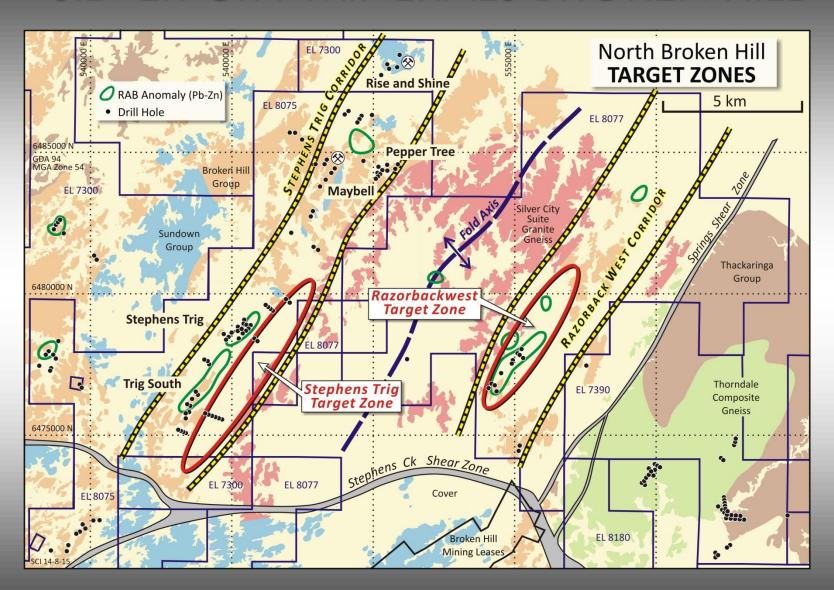
#### Razorback Stephens Zinc RAB **Anomaly Anomaly** Acacia Vale Stephens Ck Shear Wolseley Worlds Largest Zinc-Lead-Silver Deposit Broken Hill Line of Lode Corruga Comstock Consols **Native Dog** Mineralised Corridor Pinnacles Broken Hill Balaclava Thackaringa - Pinnacles Shear Zone Galena Hill Zinc RAB **Anomaly** W Broken Hill - type deposits SCI Tenements

# Important Projects

Evaluation work this year focussed attention on three main areas

- Razorback West
- > Stephens Trig
- > Balaclava

## SILVER CITY MINERALS BROKEN HILL



#### EL 8077 Gravity Maybell EL 7300 Anomaly Razorback EL 8075 West Stephens 🔕 Trig EL 8077 EL 8077 EL 7813 • South Zinc RAB **Anomaly** EL 7300 Stephens Ck | Shear Zone Iron Blow Broken Hill MLs **POTOSI** EL 8077 EL 8180 DEPOSIT Worlds Largest Zinc-Lead-Silver Deposit EL 8074 Broken Hill Line of Lode Mineralised Corridor EL 8255 EL 8077 EL 7390 EL 8074 DEPOSIT EL 8255 **Native Dog** SCI Prospect SCI Tenements 5 km

### Razorback West

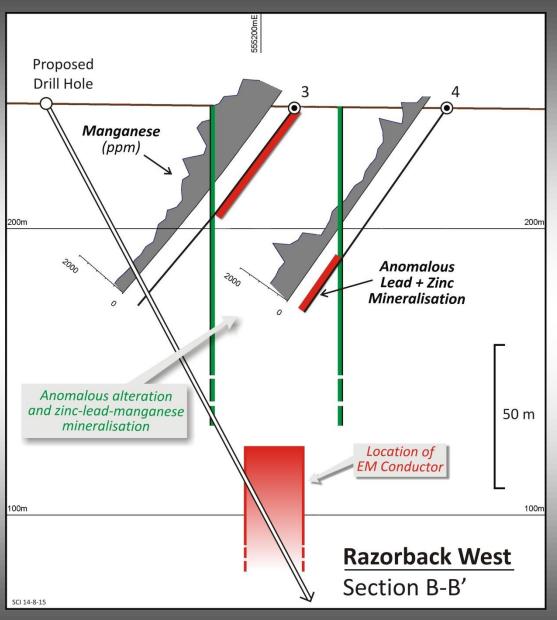
- > Fault offset, northern extension of the Broken Hill mine corridor
- Same geology as Broken Hill under veneer of alluvial cover
- Large untested geochemical and geophysical anomalies

# Proposed drill holes A Fixed Loop **EM Conductor** Moving Loop **EM Conductor Razorback West Project** 400 ppm Zn

# Razorback West Drilling

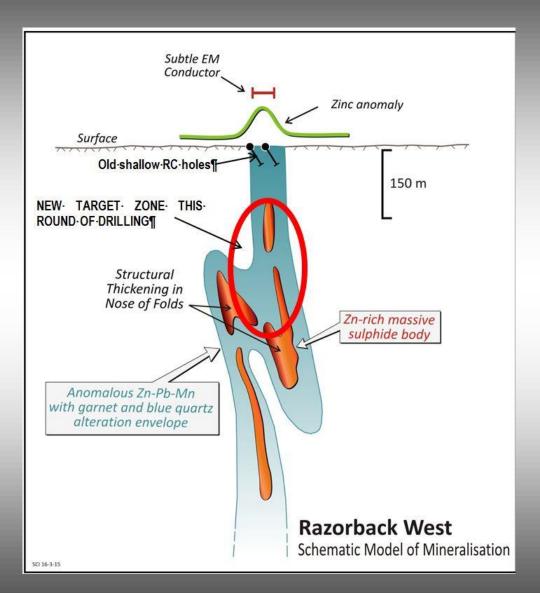
- Drilling underway
- ➤ Holes "A" and "B" test combined geochemical and geophysical anomalies
- ➤ Holes "C" tests favourable part of Broken Hill rock sequence "the Hores Gneiss"

## Razorback West Drilling



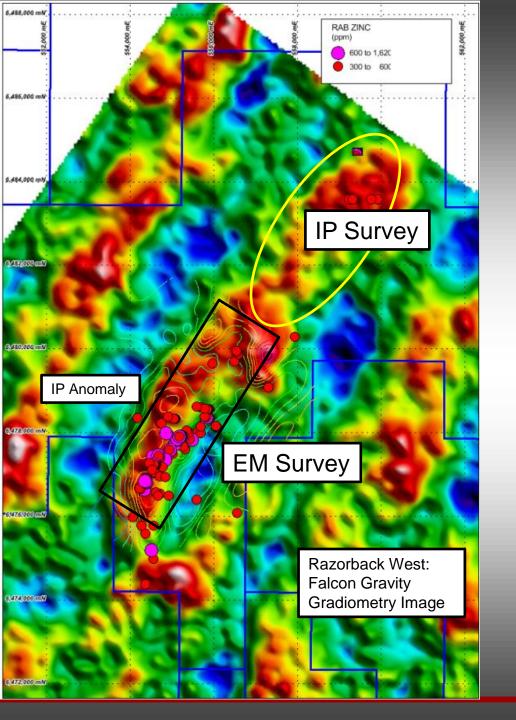
- Existing holes host elevated zinc, lead and manganese
- EM conductor lies beneath zones of geochemically anomalous rock
- EM interpreted to be 120 metres below surface

#### Razorback West



## Conceptual cross-section through Razorback West shows

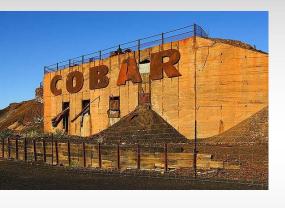
- A surface zinc anomaly in shallow RAB drilling
- Anomalous zinc in shallow reverse circulation drill holes
- The location of an electromagnetic conductor in relation to the zinc anomalism
- A conceptual, zinc-rich massive sulphide body at 120 – 150 metres below the surface; the geophysics suggests this depth
- SCI drill holes intersected the anomalous envelope, but not deep enough to test EM anomaly
- Deeper drilling required



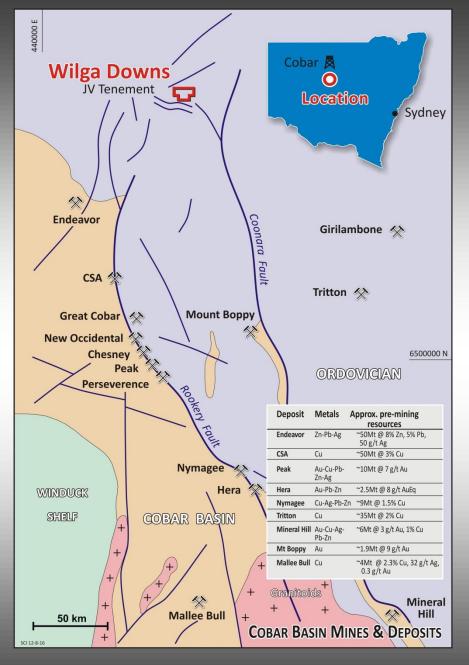
# Razorback West Northern Extension

#### **Proposed Work Program**

- Target massive sulphides under cover
- Further RAB geochemistry
- > IP survey to NE
- Gravity survey

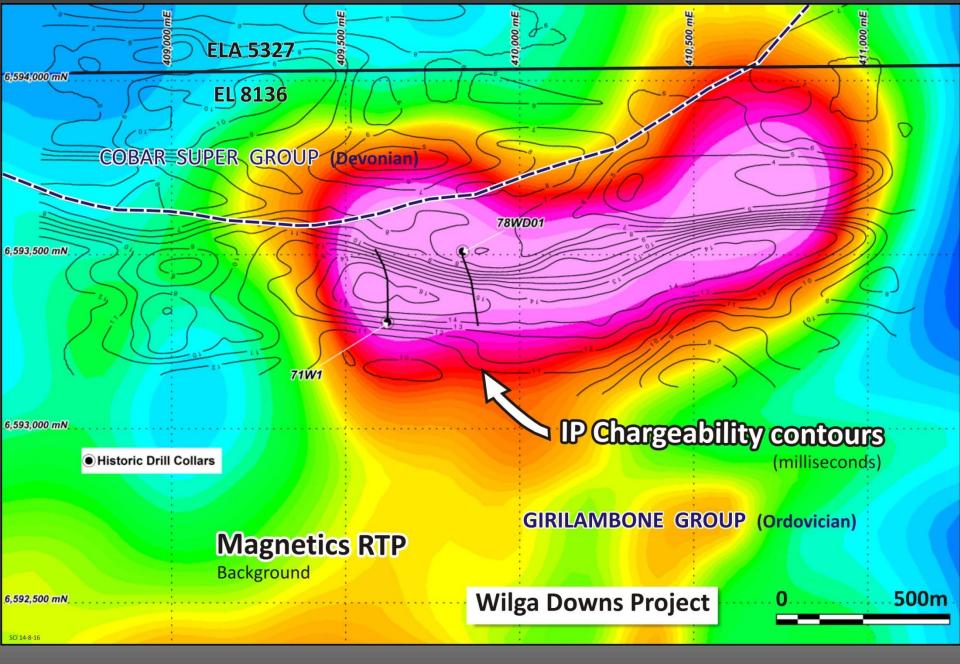


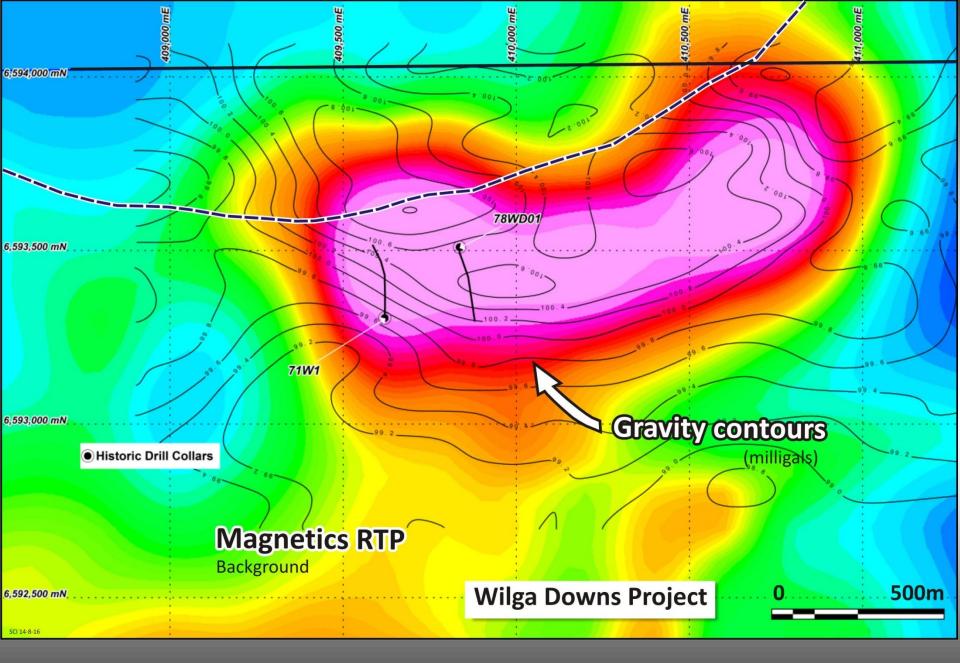
# Copper-Gold @ Cobar

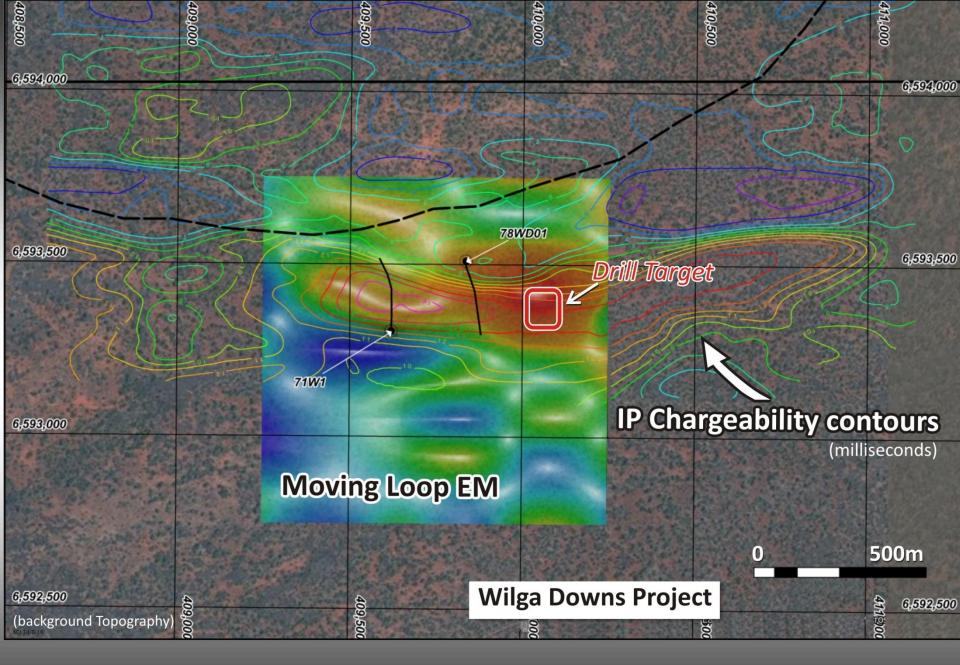


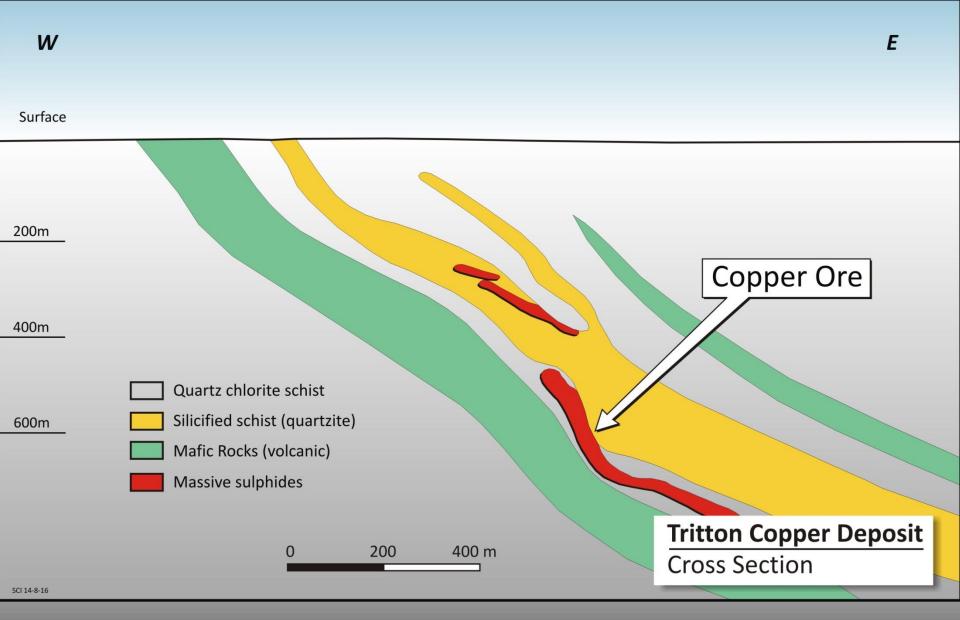
## Wilga Downs

- Cobar Mining District
- Numerous, long-lived mines
- Copper, Lead, Zinc, Silver and Gold
- Coincident geophysical anomalies (magnetics, gravity, induced polarisation, electromagnetics)
- Proximity to a regionally important geological contact/fault







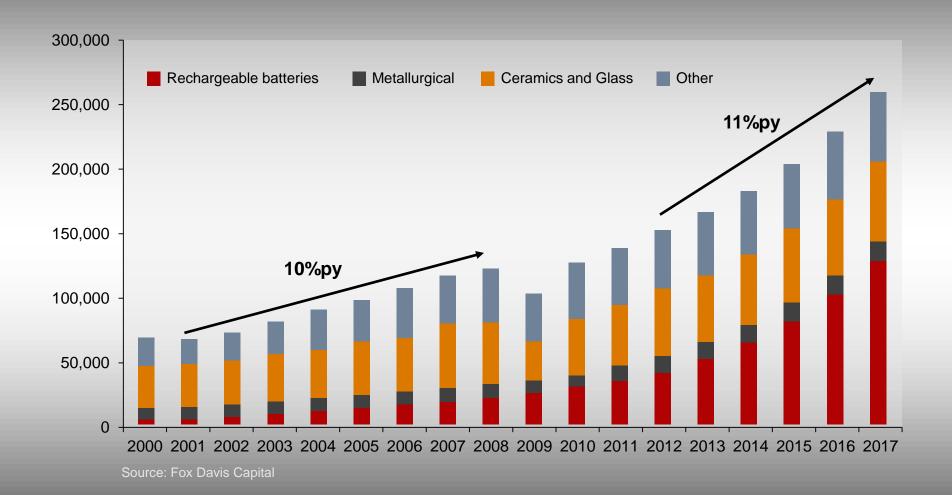


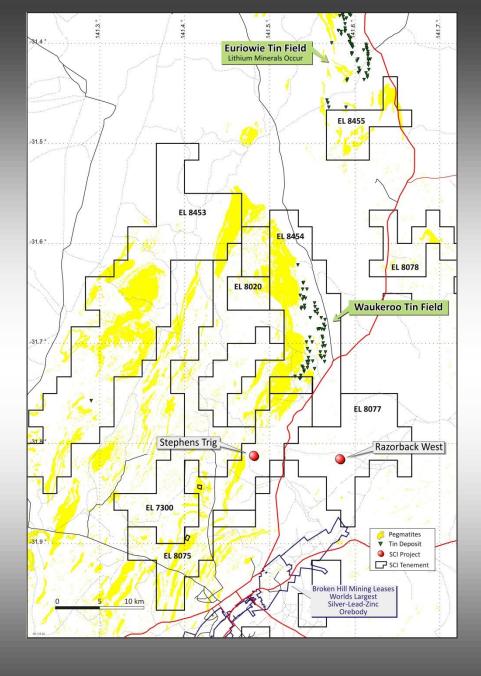
Hoping Wilga Downs is a Tritton analogue
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# Lithium @ Broken Hill

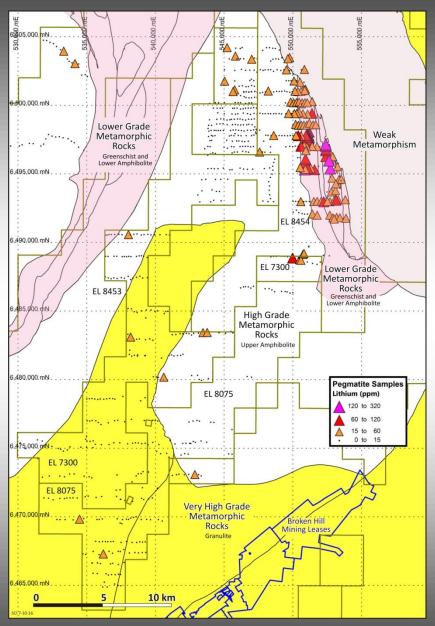
## Global Lithium demand





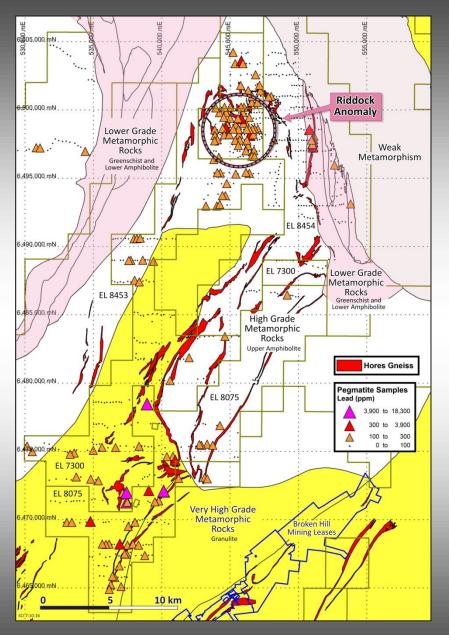
## Lithium

- ➤ 1200 square kilometres tenure
- ➤ 100 square kilometres of outcropping pegmatite
- Euriowie & Kantappa tin fields host lithium minerals
- Prior to Silver City work no lithium exploration undertaken



# Pegmatite Samples

- Lithium and associated indicator elements (Rb, Cs, Sn, Ta, Be, Ga, Tl, P) elevated and anomalous within Waukeroo tin field
- Located in low grade metamorphic rocks



# Pegmatite Samples

- Lead-Silver-Zinc associated with old mines and Hores Gneiss
- Located in high to very high grade metamorphic rocks
- New Lead-Silver-Zinc anomalies recognised and as yet unexplained
- Potential for new discoveries

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## Conclusions

#### **Broken Hill**

- Large focused land tenure position
- Potential for high grade giant base metal and silver-rich orebodies
- Focus on Razorback , Stephens Trig and Balaclava
- New base metal-silver anomalies from pegmatites
- Lithium still an unknown; geological setting defined

#### Cobar

- Producing mining district
- Wilga Downs; excellent geological setting, untested geophysical anomalies: Copper-Gold target.

## Near Future News Flow

#### **Broken Hill**

- ✓ Drilling Razorback West (1000m; Government funding assistance)
- ✓ Results of EM survey at Balaclava
- ✓ Follow-up results of pegmatite samples (base metals and lithium). New zones identified.

#### Cobar

✓ Drilling Wilga Downs

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