SOLSTICE MINERALS LIMITED

ASX Announcement
5 October 2022 | ASX: SLS

Investor Presentation

Solstice Minerals Limited (**Solstice Minerals** or **Company**) is pleased to release the attached Investor Presentation.

This announcement has been authorised for release by the Executive Director.

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SOLSTICE
MINERALS LIMITED

Investor Presentation

October 2022

IMPORTANT NOTICES AND DISCLAIMERS

Nature of Document

The purpose of this presentation is to provide general information about Solstice Minerals Limited (**Solstice**) which is current as at 5 October 2022, unless otherwise specified. It is information in a summary form and does not purport to be complete. The information in this presentation should be read in conjunction with Solstice's other announcements lodged with the ASX.

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JORC 2012 Competent Persons Statement

The information in this presentation that relates to Exploration Results is extracted from the ASX announcements dated 8 September 2022 ("Significant Gold Mineralisation in RC Drilling at Hobbes"), 30 August 2022 ("Gold Anomalies Defined by Soil Sampling at Cosmo Licences"), 14 July 2022 ("Significant Gold Anomalies Confirmed by Infill Soil Sampling at the Nippon Licence, Ponton Project") and 14 March 2022 (Prospectus) which are available at www.solsticeminerals.com.au.

Solstice confirms that it is not aware of any new information or data that materially affects the information included in the original announcements and that all material assumptions and technical parameters underpinning the Exploration Results in the original announcements continue to apply and have not materially changed. Solstice confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original announcements.

A NEW GOLD AND BASE METALS EXPLORER IN WA

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Gold & Base Metals Exploration

- ✓ Gold and base metal exploration focused in the Eastern Goldfields of Western Australia
- ✓ Highly prospective land holding – approximately 2,750km^2 of granted licences and applications
- ✓ Belt scale approach in areas of excellent mineral endowment and existing mining infrastructure
- ✓ Key focus on advanced gold prospect at Hobbes - significant supergene & primary mineralisation
- ✓ Second focus – Ringlock Dam nickel sulphide targets with strong historical intercepts

Current Focus and Upcoming News flow

- ✓ Recent RC and diamond drill program at Hobbes Gold Prospect
- ✓ Maiden Hobbes Mineral Resource Estimate (MRE) due for completion in Q4 2022
- ✓ Planned drill testing of nickel sulphide targets at the Ringlock Dam Licence
- ✓ Interpretation of new proprietary regional aeromagnetic data & new target generation ongoing

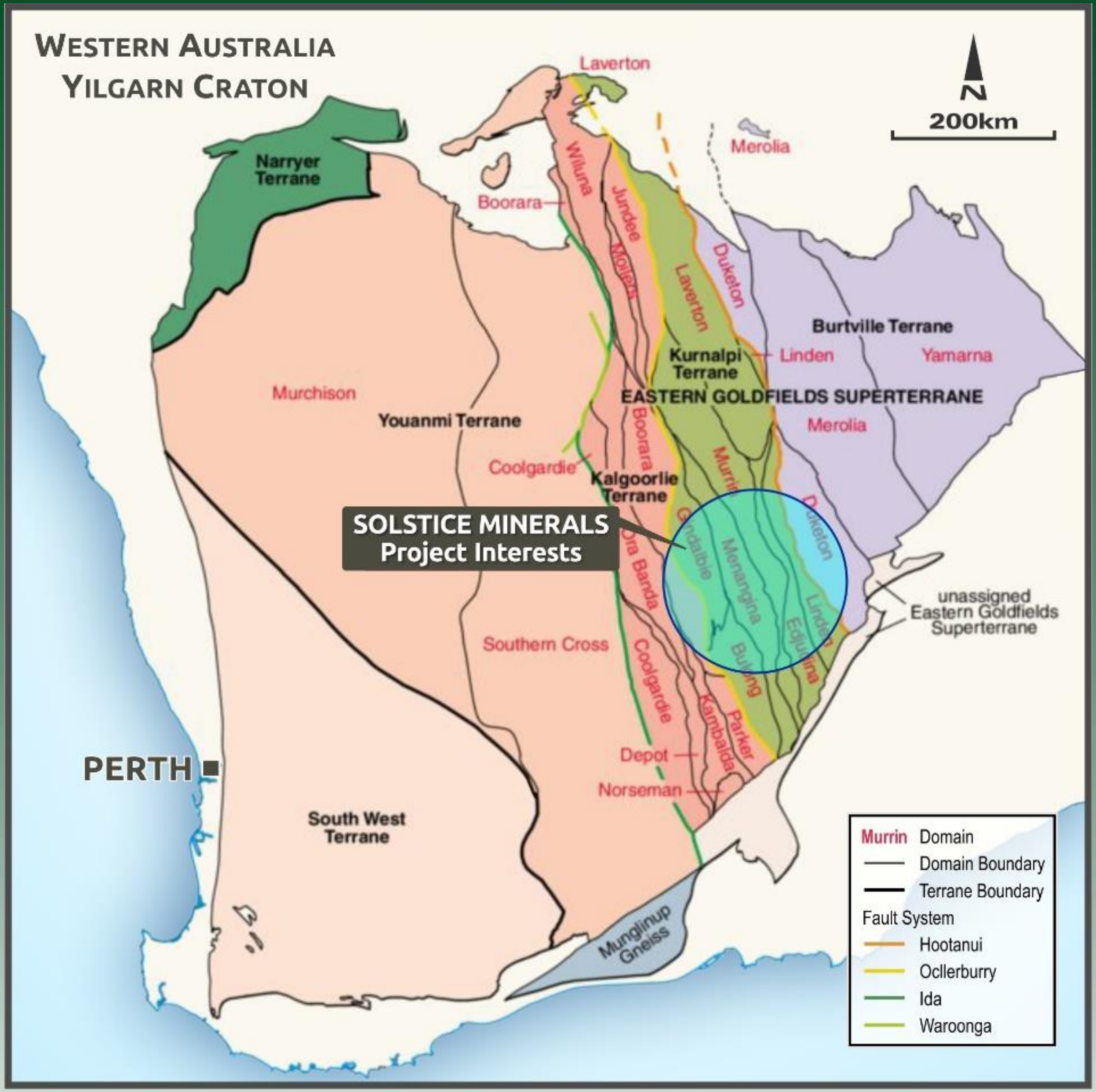
Experienced Board and management team with track record of success

Strong mix of technical and capital markets expertise

Well funded for active exploration programs and corporate development opportunities

LARGE, QUALITY GROUND HOLDING IN HIGHLY PROSPECTIVE TERRANE

- Eastern Goldfields gold and base metal exploration
- Significant ground holding within the highly prospective Keith-Kilkenny and Laverton Tectonic Zones - approximately 2,750km^2 of granted licences and applications
- "Belt style" systematic approach to exploration
- Key asset – advanced Hobbes Gold Prospect
- Exciting base metal opportunity at Ringlock Dam
- Undemanding valuation and well-funded with $15.9m in cash at end June 2022 (audited)
- Significant near-term news flow from Hobbes resource drilling



EXPERIENCED BOARD AND MANAGEMENT TEAM

Craig Williams Non-Executive Chairman	Alastair Morrison Executive Director	Matthew Yates Non-Executive Director	Robert Rigo Non-Executive Director	Mike Klessens Non-Executive Director
+40 years (Geologist) Co-founder and former CEO of Equinox Minerals, acquired by Barrick in 2011 for $7 billion. (Retiring at AGM in Nov 2022)	+30 years (Geologist) Former Exploration Manager of East African Gold Mines, last 18 years as analyst & portfolio manager	+35 years (Geologist) CEO & MD of OreCorp Limited, former MD of OmegaCorp and Joint MD of Mantra Resources	+40 years (Engineer) Former VP Project Development of Equinox Minerals & GM Technical Services for Newcrest	+30 years (Certified Practicing Accountant) Former VP Finance and CFO of Equinox Minerals, extensive industry experience

Tania Cheng Chief Financial Officer	Jessica O'Hara Company Secretary	Dr Mark Alvin Exploration Manager	John McIntyre Chief Geologist
+25 years (Chartered Accountant) CFO of OreCorp Limited, formerly with Myanmar Metals, Apollo Group Pty Ltd, Deloitte & PWC	+15 years (Corporate Lawyer) Co Sec & Legal Counsel for OreCorp Limited, formerly with Allen & Overy, Clayton Utz	+25 years (Geologist) Experienced explorationist, formerly with Rio Tinto, Nyrstar, Strandline & MRG Metals	+35 years (Geologist) multi-commodity exploration experience, formerly with Greatland Gold, Chalice Mining, Liontown Resources & Hunter Resources

CORPORATE OVERVIEW

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ASX : SLS

100.3M
Shares on issue

14.7M Listed Options
10.7M Unlisted Options
0.6M Performance Rights

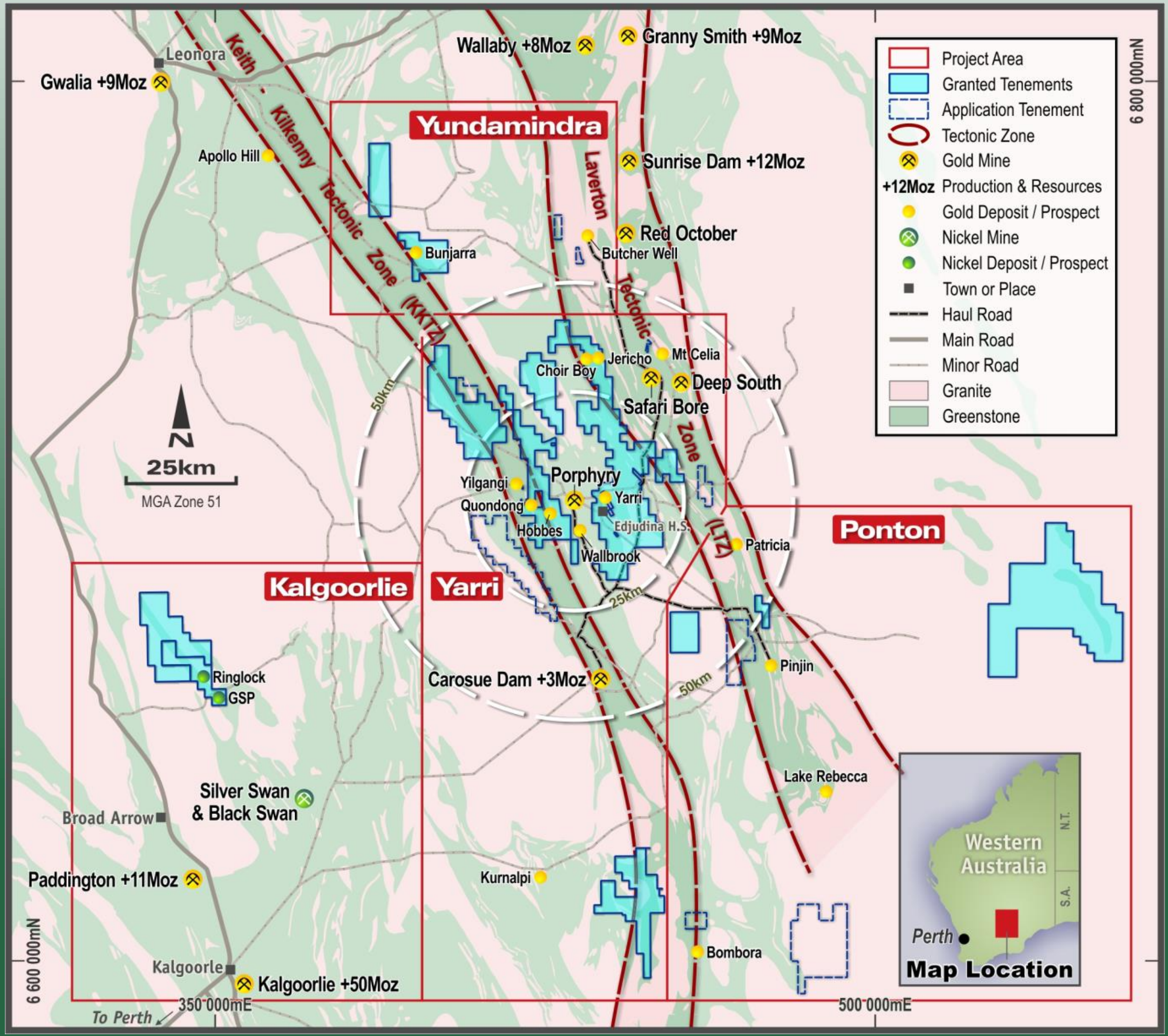
A$14M
Market Cap

A$15.9M
Cash (as at 30 June 2022, audited)

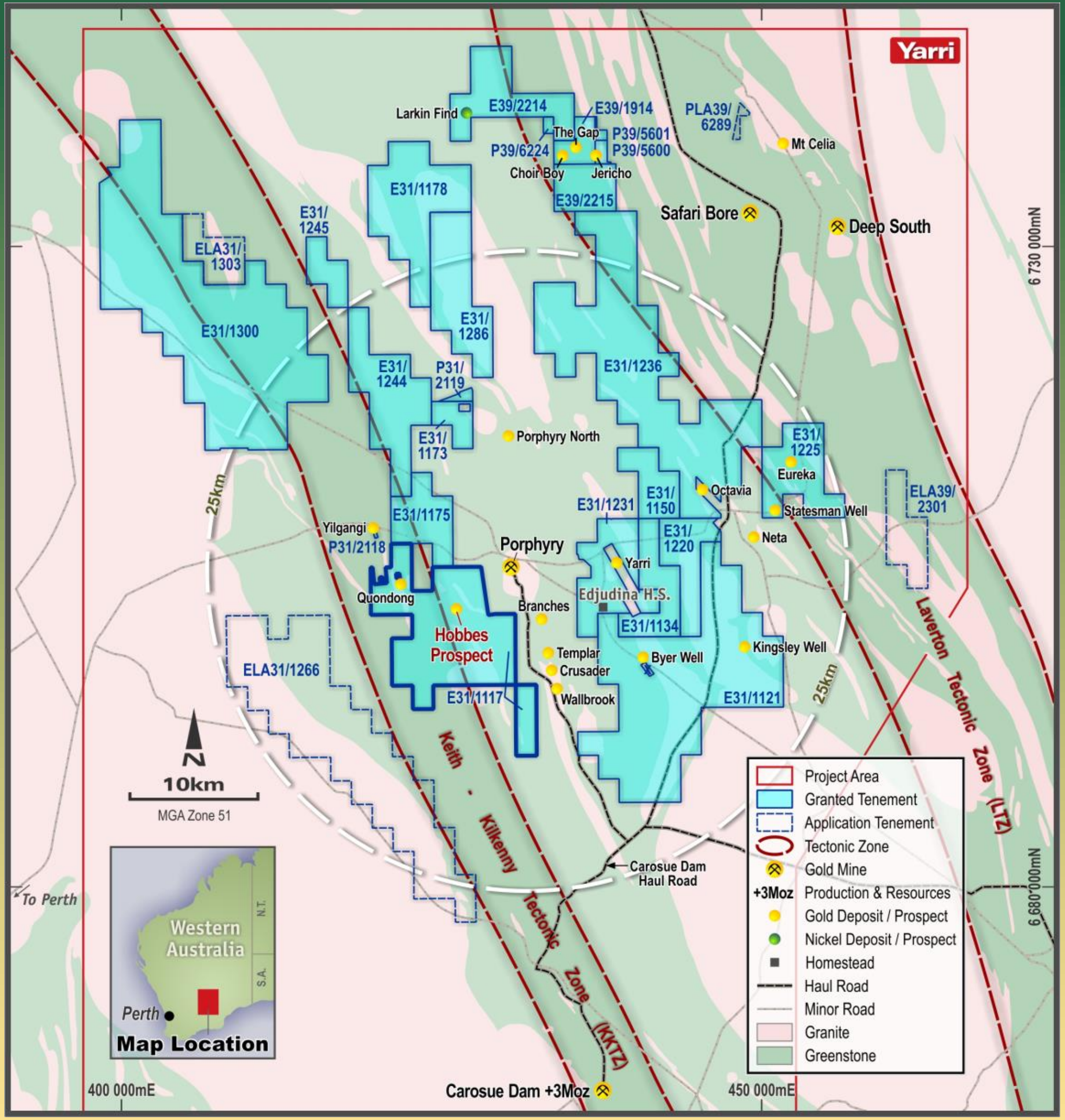
No Debt

BELT SCALE LAND POSITION IN EASTERN GOLDFIELDS

- Proven, high endowment in Eastern Goldfields
- Prospective for both gold and nickel
- Four project areas covering approximately 2,750km^2
- Approximately half of holding in core **Yarri Project**
- Semi-contiguous ground holding built on core Hobbes Gold Prospect
- **Kalgoorlie Project** contains strike extensions of Black Swan Komatiite Complex (BSKC) and Ringlock Dam nickel sulphide prospects
- Other project areas – **Yundamindra** and **Ponton** represent earlier-stage, pipeline opportunities



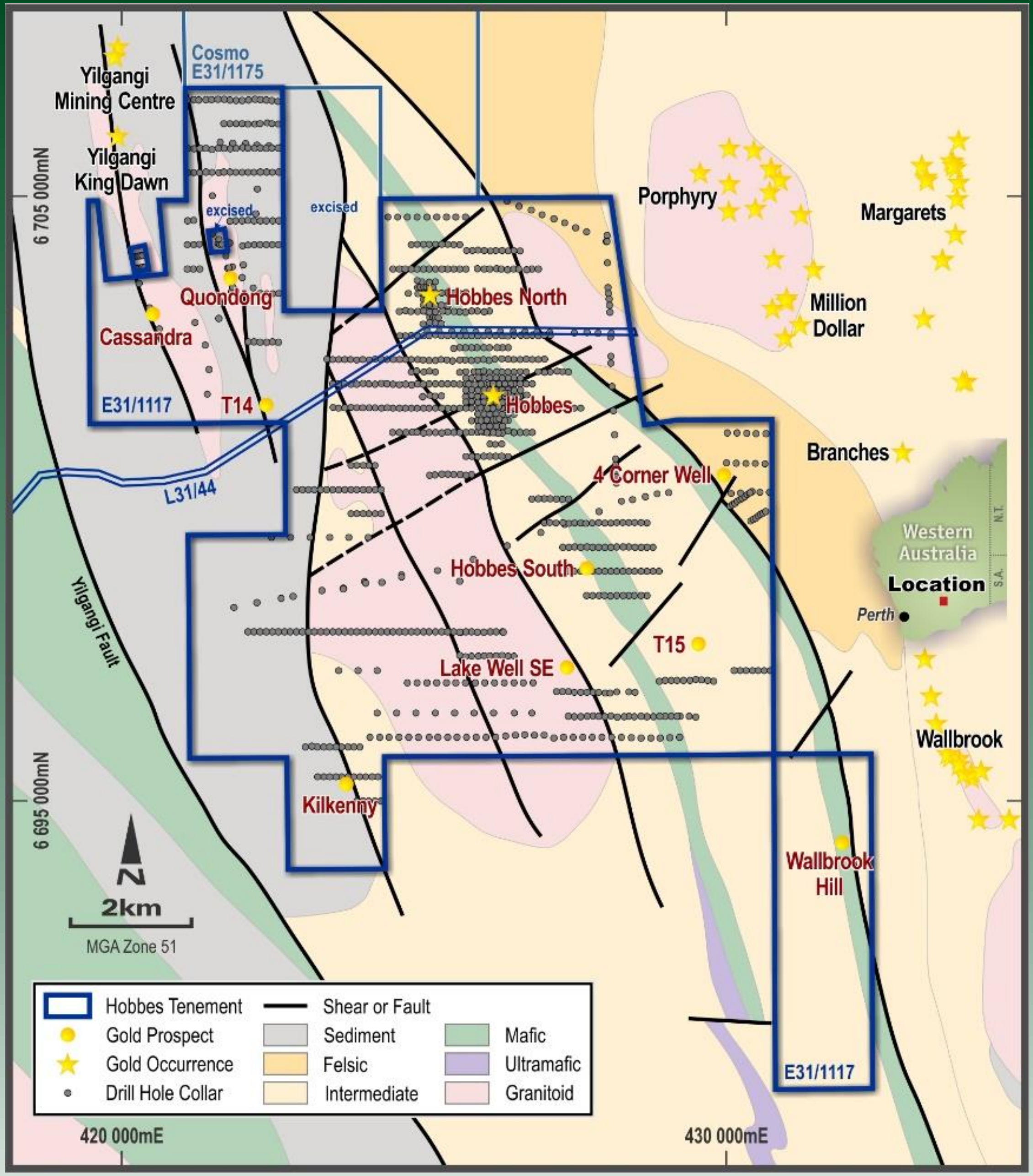
YARRI PROJECT – ADVANCED GOLD OPPORTUNITY NEXT TO EXISTING INFRASTRUCTURE



- Favourably located between Keith-Kilkenny and Laverton Tectonic Zones – host to numerous large gold deposits
- Hobbes Gold Prospect (E31/1117 – 80%) advancing to maiden MRE in Q4 2022, following recent infill drilling
- Hobbes is approximately 5km to SW of NST's Porphyry mining operations, established infrastructure next door
- Nexus Minerals progressing nearby Crusader-Templar discovery

HOBBES LICENCE (80%) – UPCOMING MRE WITH OUTSTANDING SURROUNDING POTENTIAL

- Historical discovery undercover by Newcrest
- Broad thick zones of supergene gold mineralisation
- Wide spaced drill testing of primary mineralisation
- Recent infill RC drill program with follow-up diamond drilling
- Maiden MRE planned for Q4 2022
- Numerous targets in close proximity to Hobbes



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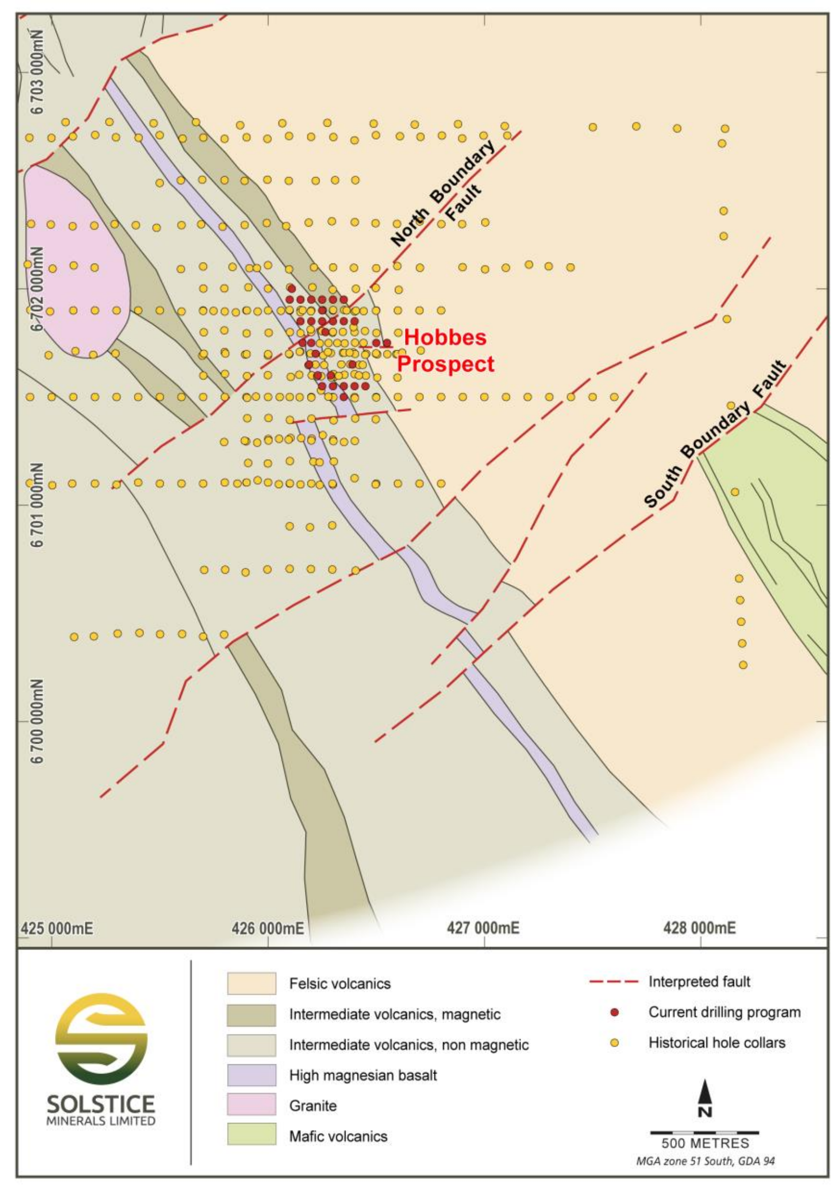
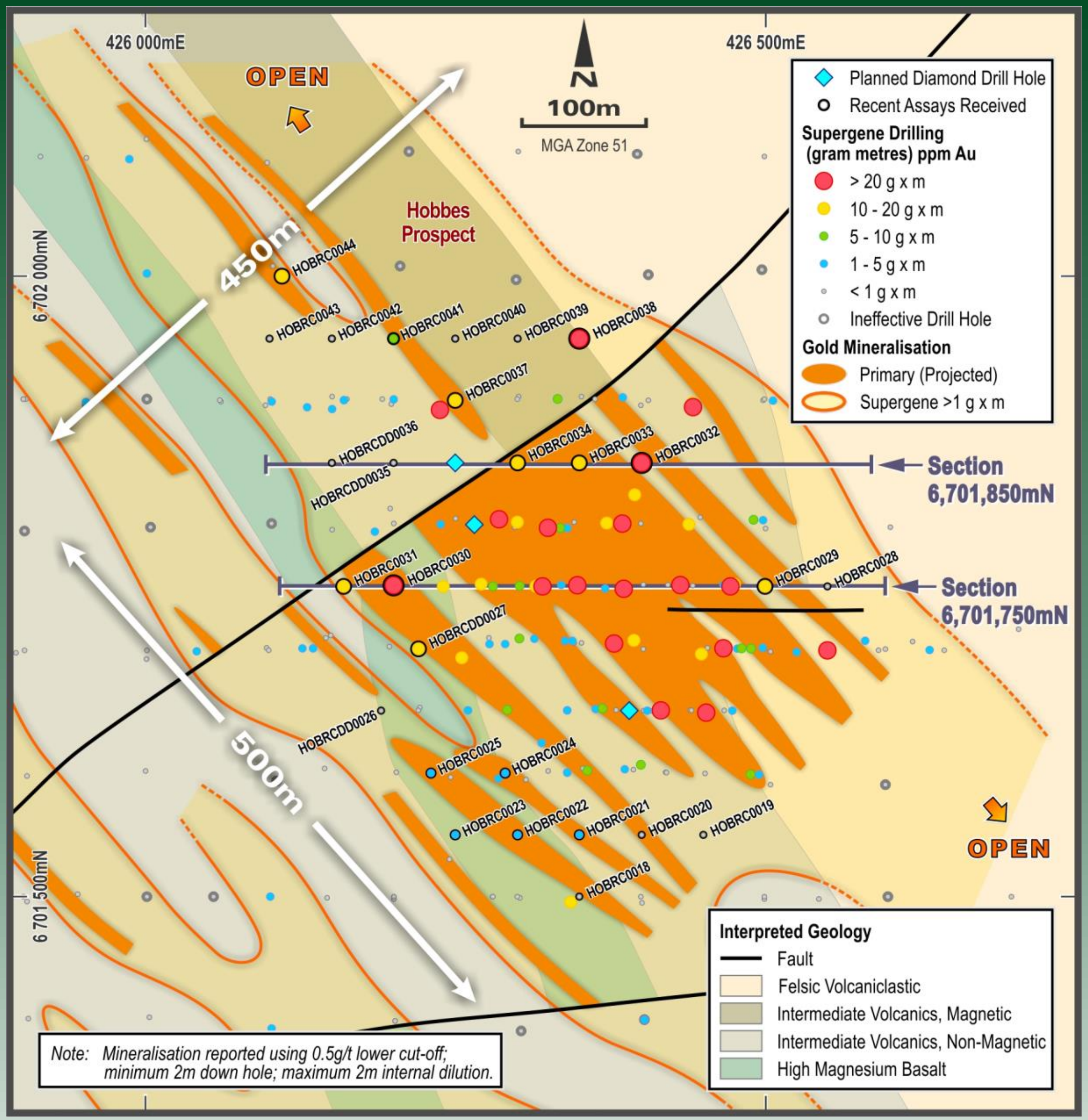
HOBBES LICENCE (80%) – EMERGING GEOLOGICAL MODEL IS KEY ADVANCEMENT

- Geological interpretation based on combination of lithogeochemistry and aeromagnetics
- NW striking stratigraphic package, cross-cut by NE striking faults
- Primary mineralisation hosted by steeply west-dipping intermediate volcanic package
- Coincident highly altered and demagnetised zone
- Bounded by NE-striking Northern and Southern Boundary Faults
- Northern Boundary Fault may be an important control at Hobbes
- Untested targets immediately north and along the Southern Boundary Fault



HOBBES PROSPECT – SIGNIFICANT HORIZONTAL SUPERGENE BLANKET

- Broad supergene footprint up to 1km in strike length, 400m across strike and up to 30m thick
- Beneath shallow transported cover approx 40m thick
- Recent infill RC drilling has confirmed continuity, with supergene mineralisation within core area
- Better intersections within the supergene include:
    - **12m @ 1.49g/t gold from 58m** (HOBRC0001)
    - **22m @ 3.22g/t gold from 45m** (HOBRC0002)
    - **30m @ 1.08g/t gold from 47m** (HOBRC0014)
    - **17m @ 1.18g/t gold from 56m** HOBRC0032)
    - **20m @ 1.55g/t gold from 53m** (HOBRC0038)
- Recent supergene intersections at east end of lines indicate core area remains open to NE



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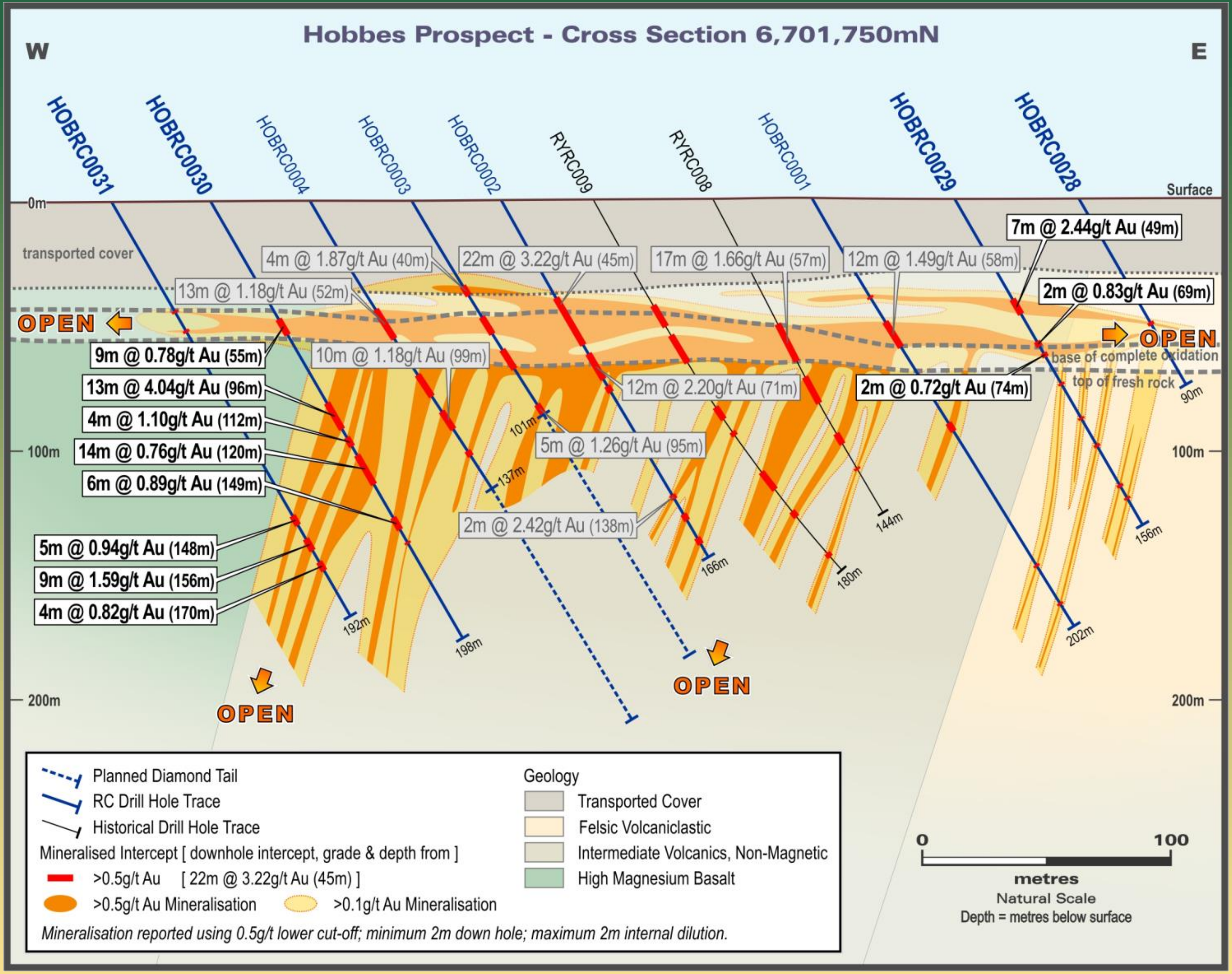
HOBBES PROSPECT – MULTIPLE ZONES OF UNDERLYING PRIMARY MINERALISATION



- Primary mineralisation identified over >500m in strike
- Steep west-dipping primary zones developed within demagnetised, altered intermediate volcanic package
- Multiple zones, developed along hanging wall, footwall and other parallel structures
- Strong primary drill intercepts :
  - **25m @ 2.52g/t gold from 87m** (NHD002)
  - **13m @ 4.04g/t gold from 96m** (HOBRC030)
- Further interpretation required to determine down-plunge potential
- Recent intercept north of NBF suggests potential new primary zone open to north – **8m @ 2.10g/t gold from 88m** (HOBRC044)

HOBBES PROSPECT – PRELIMINARY METALLURGICAL TESTWORK AND PLANNED WORK

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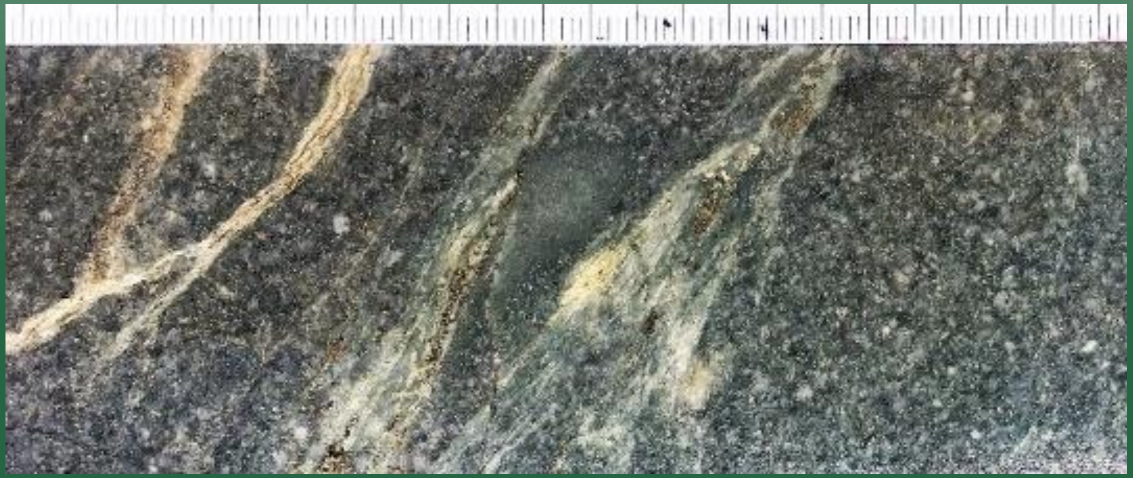
Metallurgical Testwork

- Favourable preliminary metallurgical testwork results – 97% and 89% recovery for oxide and primary gold mineralisation, respectively

Upcoming Work

- Structural interpretation from new diamond drilling and further lithogeochemical analysis of recent RC drill pulps
- Results to assist with finalisation of geological model
- Maiden MRE planned for completion by end Q4 2022
- Assessment of additional targets in wider Hobbes Licence

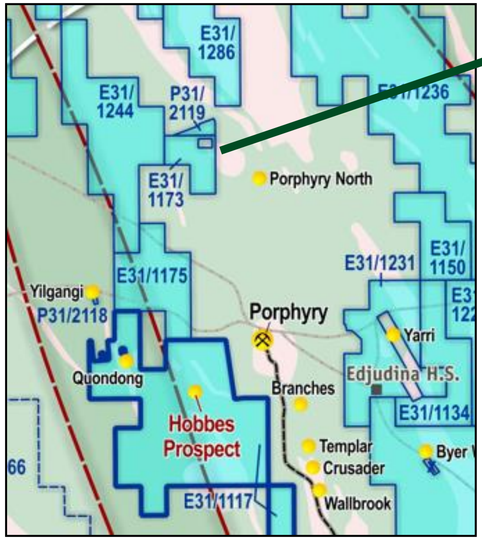
Silica-pyrite alteration

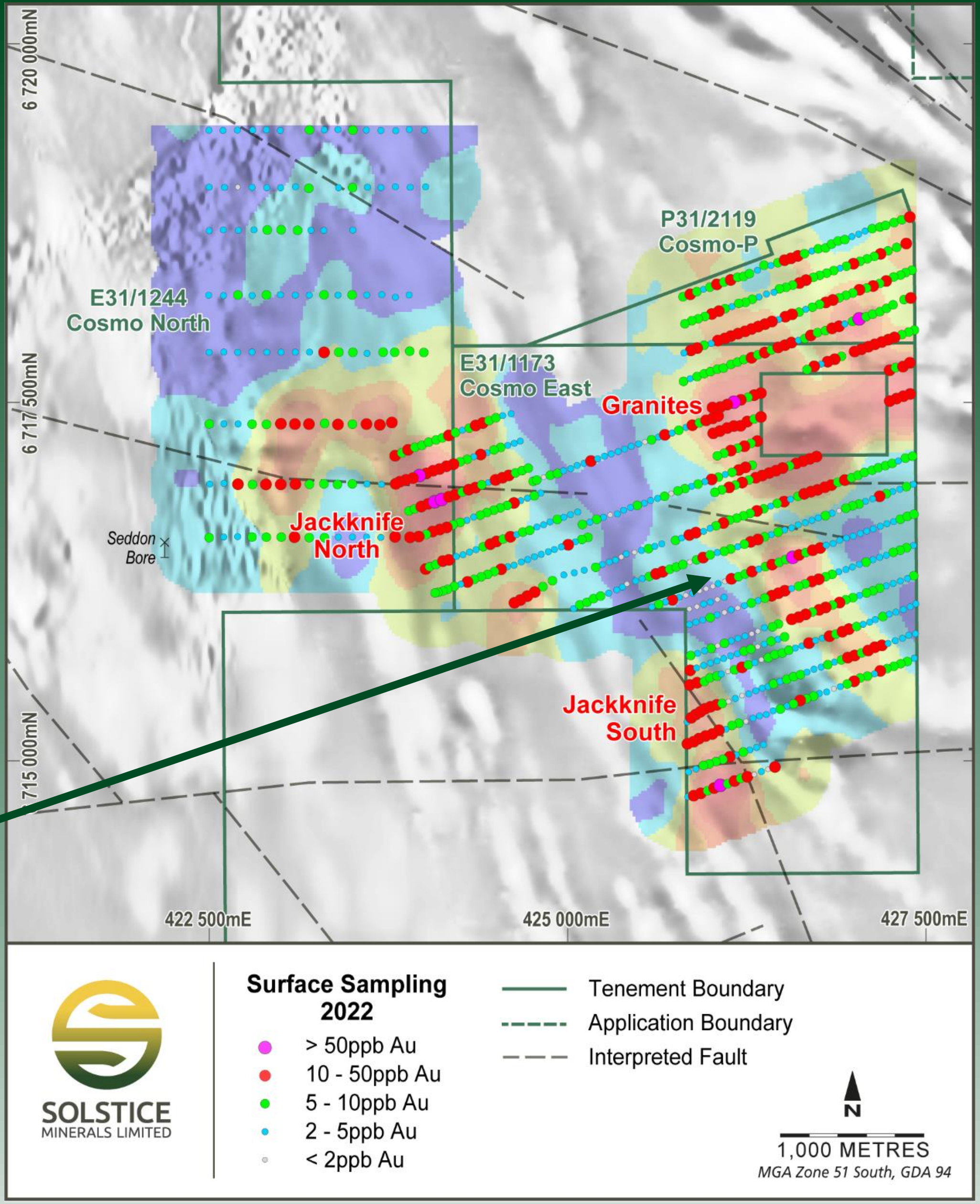


Coarse pyrite-albite alteration

YARRI PROJECT – COSMO GROUP LICENCES

- Approximately 15km NNW of Hobbes Licence
- Recently identified gold-in-soil anomalies at the **Granites**, **Jackknife North** and **Jackknife South Prospects**
- Extensive (3km x 0.9km) > 10ppb Au anomaly defined at Granites Prospect, with peak 65ppb Au assay
- Historical RAB drilling at the Granites returned 5m @ 1.94g/t gold from 9m, but majority of anomaly untested
- Jackknife North (peak 100ppb Au) and Jackknife South (peak 81ppb Au) also represent high priority anomalies with less than 10% of the areas tested by previous drilling





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YARRI PROJECT – STATESMAN WELL PROSPECT, LAKEVIEW LICENCE (E31/1225)

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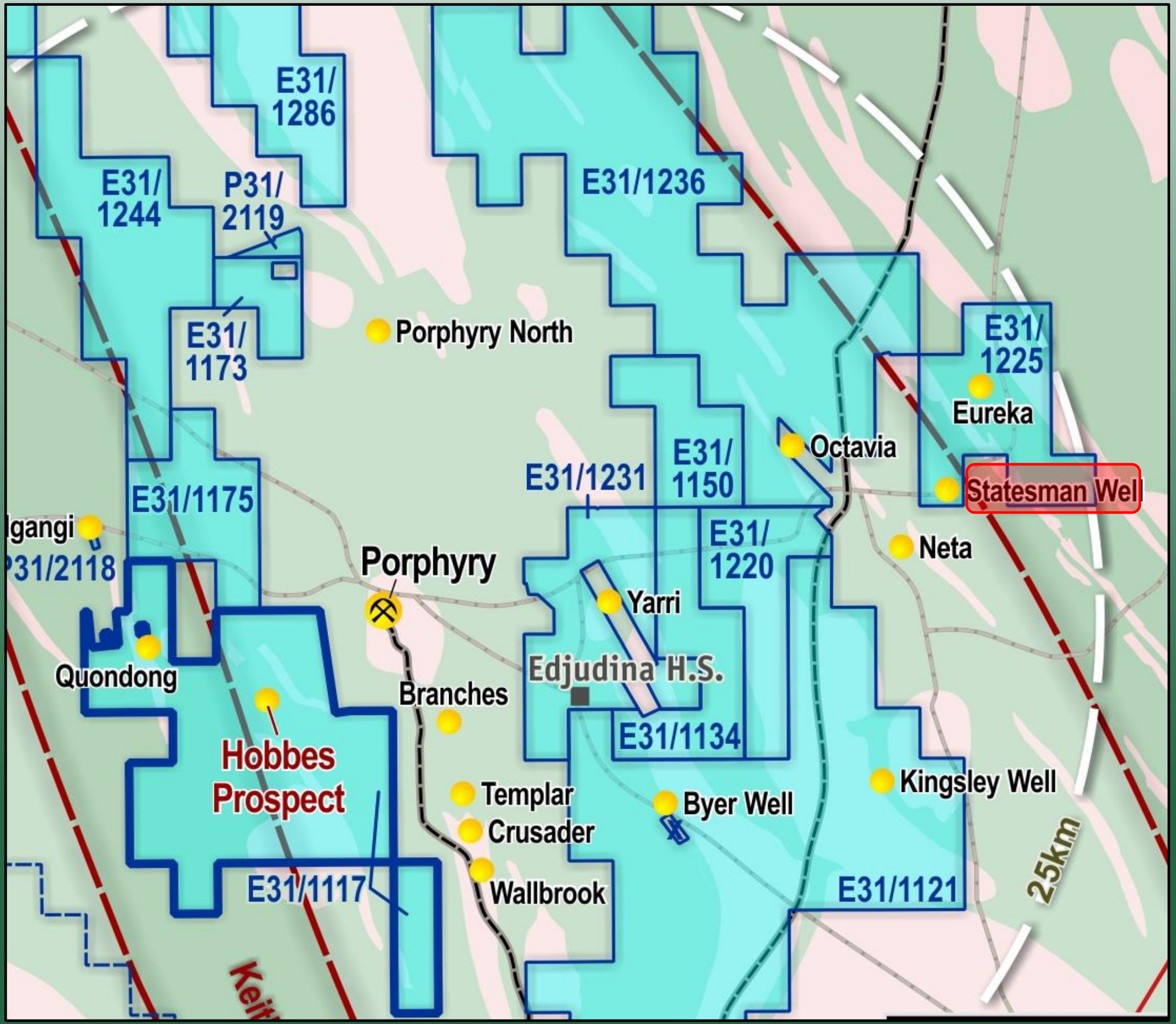
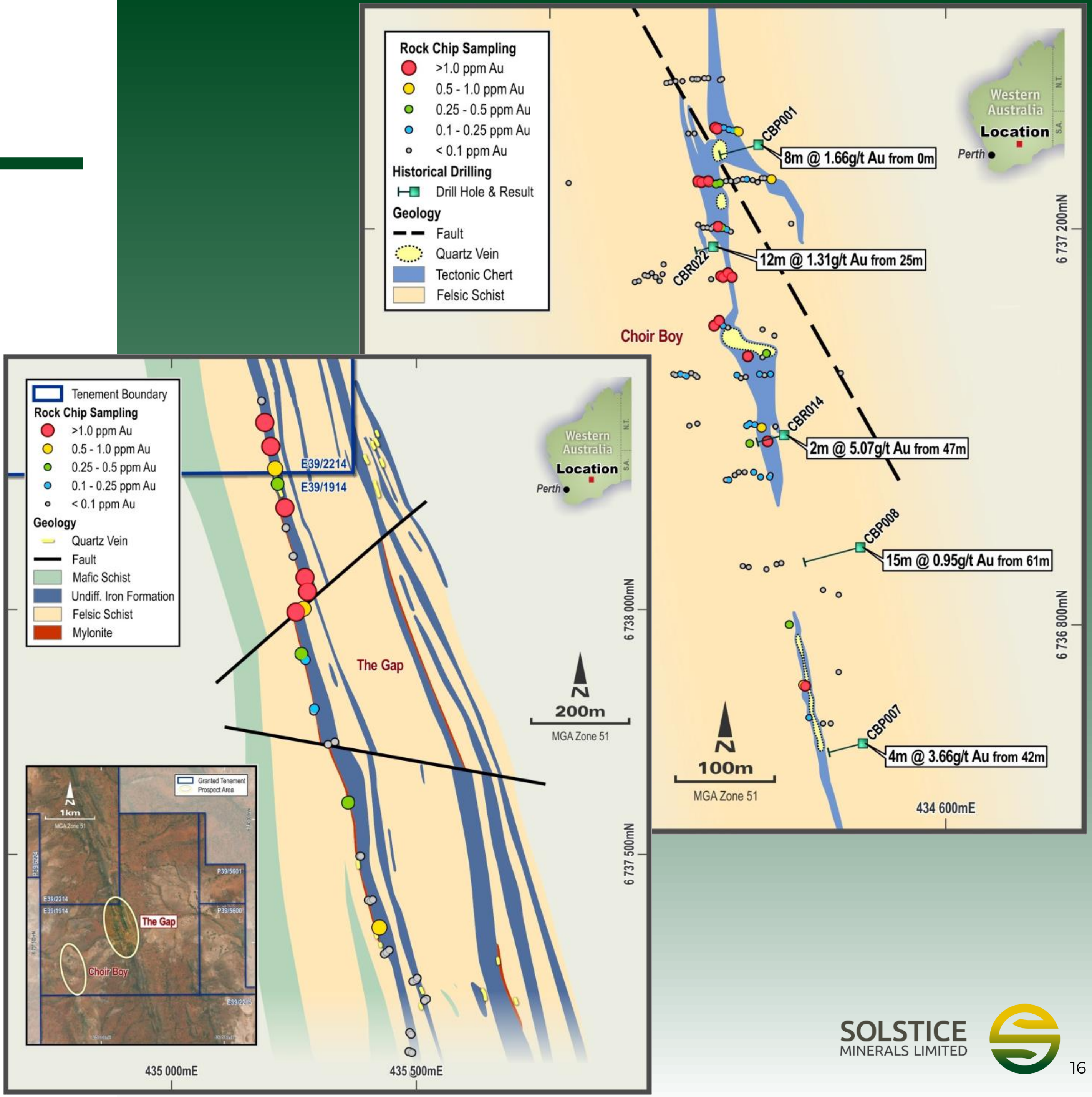
- Lies along the western margin of the LTZ, approximately 25km ENE of Hobbes Licence
- Gold mineralisation hosted in high grade quartz veins and along the contact between BIF and felsic schist
- Striking NW >900m along strike and open to the north and south
- Significant drill intercepts identified from historical exploration include:
  - **5m @ 1.25 g/t gold from 21m** (SWRC004)
  - **7m @ 1.32 g/t gold from 31m** (SWRC010)
  - **10m @ 1.63 g/t gold from 58m** (SWRC018)
- Potential walk-up drill targets



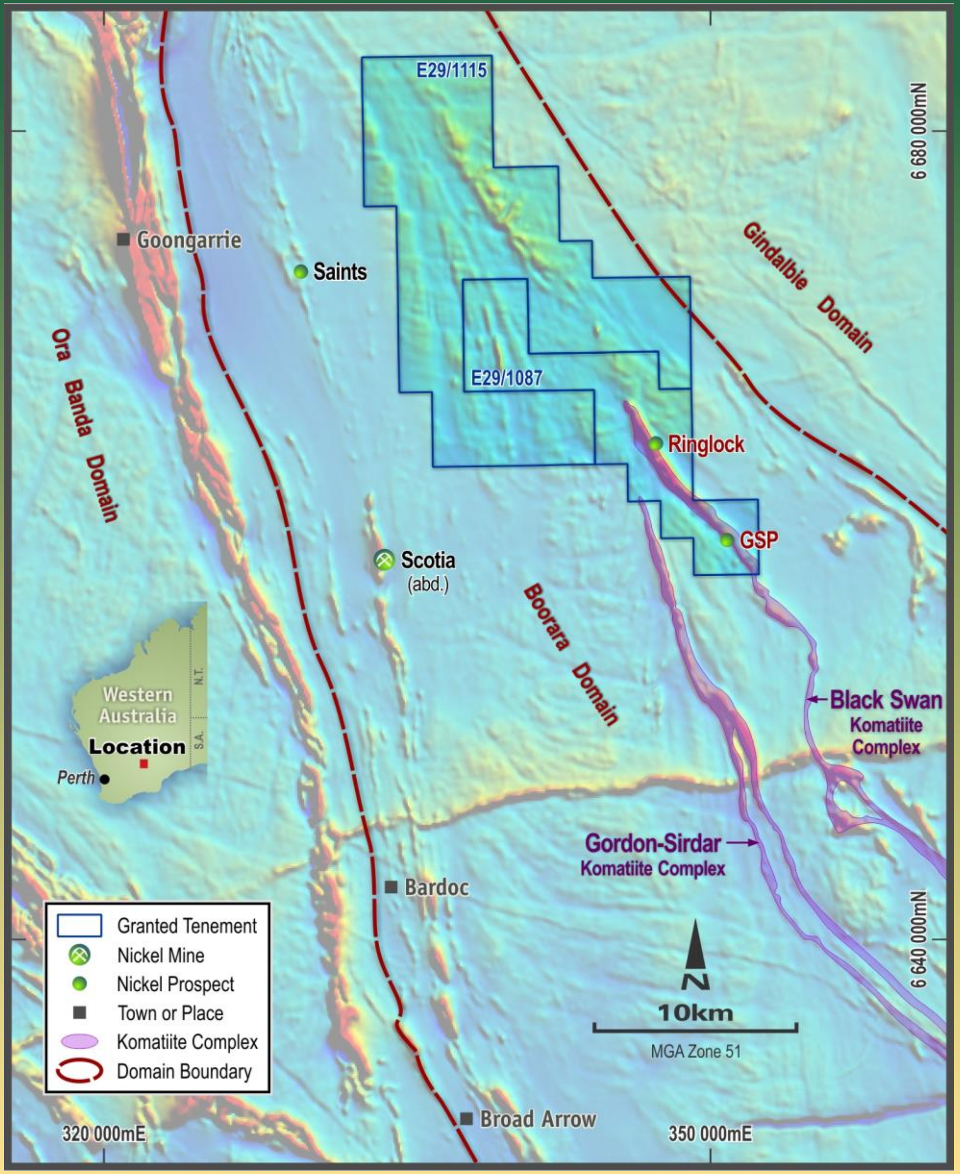
YARRI PROJECT – CHOIRBOY, JERICHO AND THE GAP PROSPECTS (E39/1914)

- Western margin of the LTZ, approximately 35km north-northeast of Hobbes Licence
- **Choirboy Prospect** >800m strike
  - **8m @ 1.66g/t gold from surface** (CBP001)
  - **4m @ 3.66g/t gold from 42m** (CBP007)
  - **15m @ 0.95g/t gold from 61m** (CBP008)
  - **2m @ 5.07g/t gold from 47m** (CBR014)
- Systematic rock-chip sampling defined 570m discontinuous strike of >1.0g/t gold up to 16m wide. Maximum 19.65g/t gold
- **The Gap Prospect** - selected rock-chip sampling defined 180m continuous strike of >1.0g/t gold
- **Jericho Prospect** – sparsely drilled with up to 1.7g/t gold (max downhole) over anomalous zone up to 900m long
- **Jericho North Prospect** - sparsely drilled with up to 6.71g/t gold (max downhole)



KALGOORLIE PROJECT – NICKEL SULPHIDE POTENTIAL

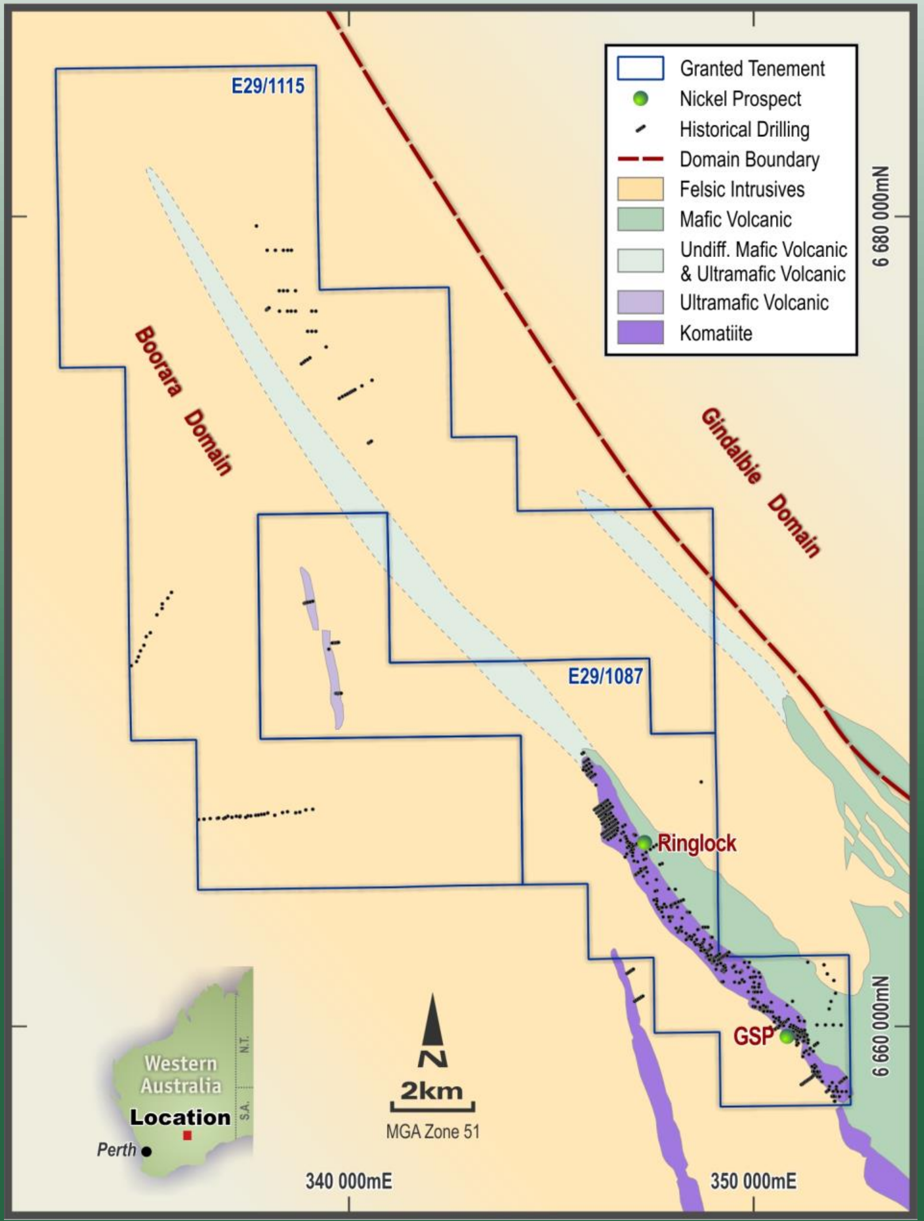
- Located approximately 80km NW of Kalgoorlie in the Kalgoorlie Terrane, host to significant gold and nickel deposits
- Interpreted strike extension of the Black Swan Komatiite Complex (**BSKC**) - 30km along strike from Silver Swan nickel deposit (previous UG production 2.7Mt @ 5.1% Ni*)
- E29/1087 hosts approximately 10km strike of BSKC
- BSKC proven to host primary massive and disseminated nickel sulphide mineralisation defined from historical drilling



Source: Poseidon Nickel Presentation – Australian Nickel Conference 5 October 2021

KALGOORLIE PROJECT – GSP PROSPECT

- **GSP Prospect** is the most advanced target with numerous significant historical nickel sulphide drill results
  - **26.01m @ 1.04% nickel from 95m** (Inc. 1.5m @ 6.8% (GS033))
  - **6.71m @ 1.61% nickel from 162.15m** (GS013)
  - **4m @ 1.0% nickel from 193m** (GS022)
  - **6m @ 2.3% nickel from 85m** (RPD002)
- Several other nickel prospects are defined and significant zones of prospective BSKC remain poorly tested



YUNDAMINDRA PROJECT – BUNJARRA WELL LICENCE (E39/1976)

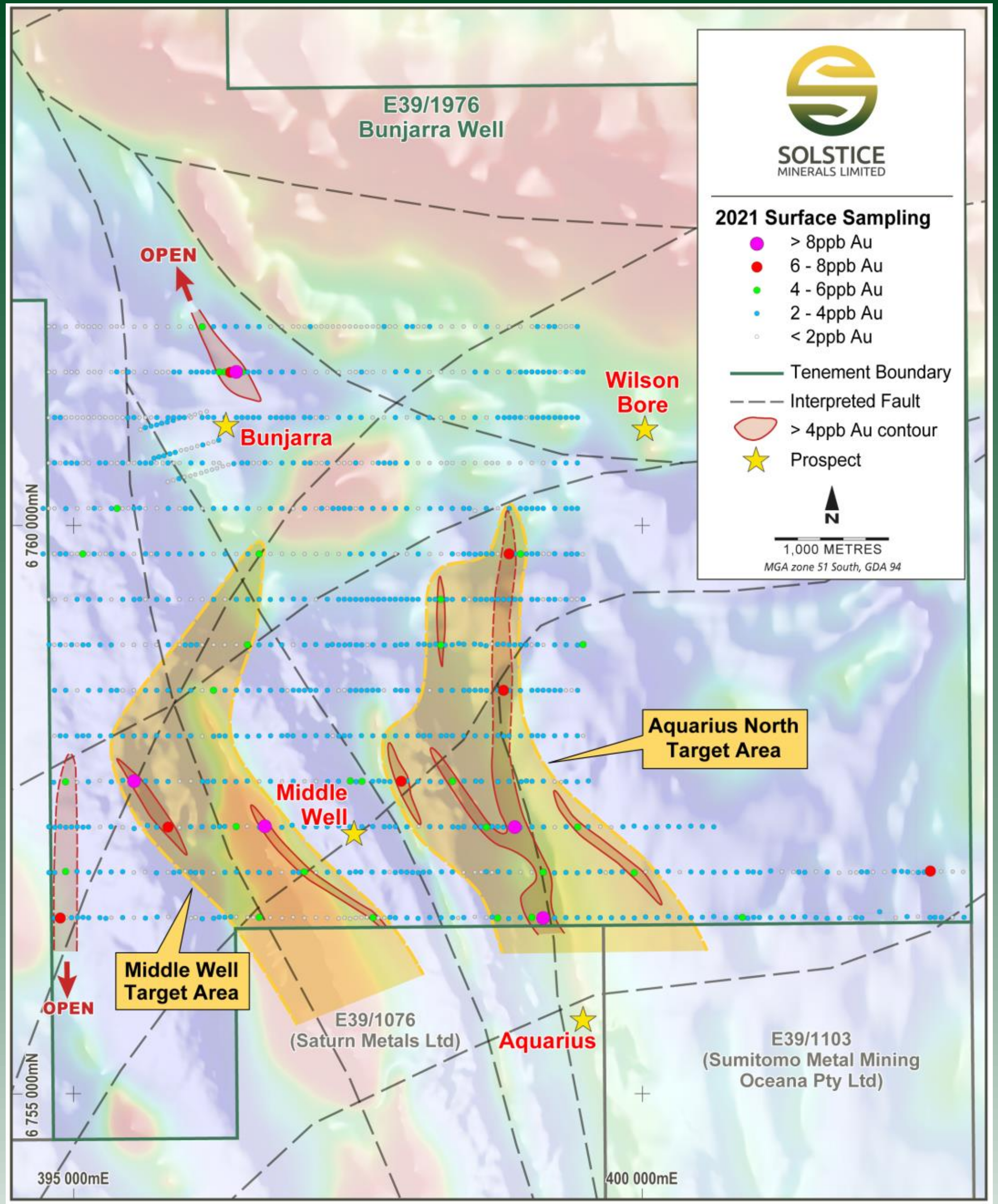
- Eastern margin of the KKTZ, approx 60km NW of Hobbes
- 15km E of Saturn's Apollo Hill deposit & within 50km radius of Genesis
- Undercover, limited historical gold exploration

- **Bunjarra Prospect**
  - Wide spaced historical drilling >100ppb (max downhole gold) over >900m strike
    - **3m @ 5.35 g/t gold from 34m** (BWAC18-007)
    - **4m @ 1.06 g/t gold from 36m** (YEAC0084)

- **Middle Well Prospect**
  - Historical drilling indicates 2km anomalous corridor
  - UFF sampling peak anomalism of 11.6ppb gold
  - Coincident with a NW trending aeromagnetic anomaly, parallel to KKTZ

- **Aquarius North Prospect**
  - Along strike from Saturn Metals' Aquarius Prospect
  - Gold anomalism (up to 10ppb) defined in UFF surface geochemistry over 3.5km

- **Wilson Bore Prospect**
  - WNW 5km long zone of drill intercepted anomalism



PONTON PROJECT – NIPPON LICENCE (E39/2184)

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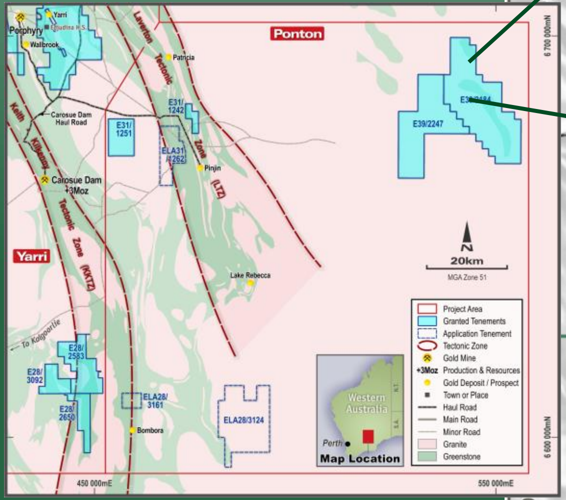
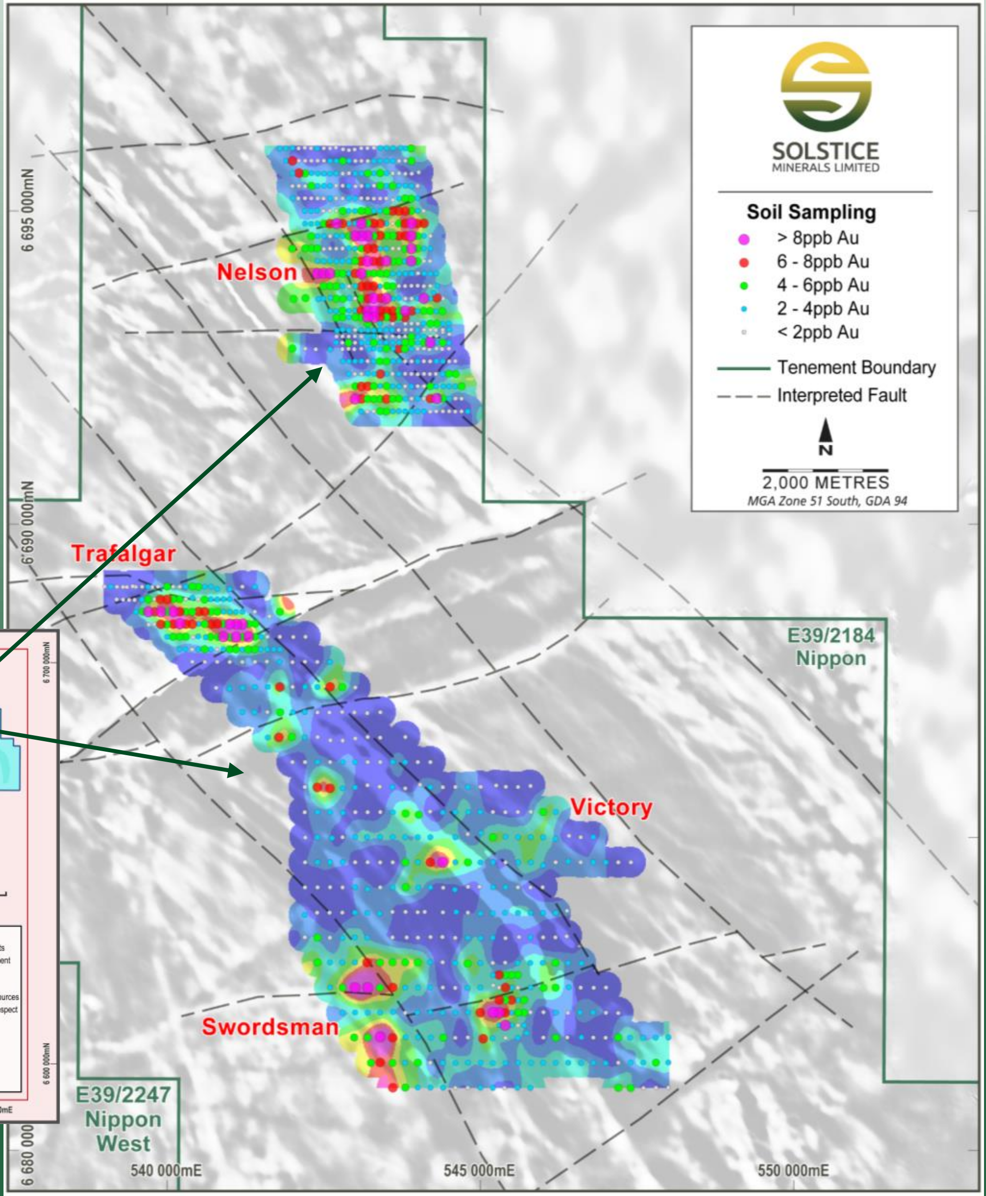
- Located 200km NE of Kalgoorlie
- Largely unexplored, frontier opportunity at margin of Yilgarn Craton
- Gold-in-soil anomalies identified, low level anomalism but significant considering the aeolian sand cover
- **Nelson** – 1.7kmx 0.5km, peak 19ppb Au
- **Trafalgar** – 1.8km x 0.8km, peak 15ppb Au
- **Swordsman** – 1.1km x 0.5km, peak 11ppb Au
- Coincident aeromagnetic anomalies and multi-element anomalism
- Untested by previous drilling





NEAR TERM NEWS FLOW AND UPCOMING CATALYSTS

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Hobbes Gold Prospect
Diamond drill program results and maiden MRE (Q4 2022)

Ringlock Dam Nickel Sulphide
Initial drill program at the GSP Prospect targeting high-grade historical intercepts

Regional
Numerous regional targets at Hobbes, Cosmo, Bunjarra and Nippon being advanced towards drilling

SUMMARY

- Extensive, hard to replicate and prospective ground package in Eastern Goldfields
- Advanced Hobbes Gold Prospect – significant supergene and primary gold mineralisation
- Next door to existing infrastructure
- Maiden MRE at Hobbes in Q4 2022 – a potential share price re-rate catalyst
- Exciting targets in close proximity around Hobbes
- Komatiite-hosted nickel sulphide mineralisation at Ringlock Dam provides second focus with drilling follow-up of historical high-grade intercepts currently being planned
- Pipeline of other exciting drill ready and greenfields targets