



# Australian Potash Limited (ASX:APC)

Annual General Meeting Presentation

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30 November 2017





# Cautionary Statement & Disclaimer

## **Scoping study – cautionary statement**

The Study referred to in this announcement is a preliminary technical and economic investigation of the potential viability of the Lake Wells Potash Project. It is based on low accuracy technical and economic assessments, (+/- 35% accuracy) and is insufficient to support estimation of Ore Reserves or to provide assurance of an economic development case at this stage; or to provide certainty that the conclusions of the Study will be realised.

Approximately 86% of the existing Mineral Resource is in the Indicated category, with the remainder in the Inferred category. There is a low level of geological confidence associated with Inferred mineral resources and there is no certainty that further exploration work will result in the determination of Indicated or Measured Mineral Resources. Furthermore, there is no certainty that further exploration work will result in the conversion of Indicated and Measured Mineral Resources to Ore Reserves, or that the production target itself will be realised.

The Scoping Study is based on the material assumptions outlined below. These include assumptions about the availability of funding. While Australian Potash Limited considers all the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be accurate or that outcomes indicated by the Study will be achieved.

To achieve the outcomes indicated in this Study, initial funding in the order of A\$175m/US\$135m will likely be required. Investors should note that there is no certainty that Australian Potash Limited will be able to raise funding when needed. It is also possible that such funding may only be available on terms that may be dilutive to or otherwise affect the value of Australian Potash Limited's existing shares.

It is also possible that Australian Potash Limited could pursue other value realisation strategies such as sale, partial sale, or joint venture of the Project. If it does this could materially reduce Australian Potash Limited's proportionate ownership of the Project.

Given the uncertainties involved, investors should not make any investment decisions based solely on the results of this Scoping Study.

## **Forward looking statements disclaimer**

This announcement contains forward-looking statements that involve a number of risks and uncertainties. These forward-looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more of the risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. No obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments.



# Competent Persons Statement

The information in the announcement that relates to Exploration Targets and Mineral Resources is based on information that was compiled by Mr Jeffery Lennox Jolly. Mr Jolly is a principal hydrogeologist with AQ2, a firm that provides consulting services to the Company. Neither Mr Jolly nor AQ2 own either directly or indirectly any securities in the issued capital of the Company. Mr Jolly has over 30 years of international experience. He is a member of the Australian Institute of Geoscientists (AIG) and the International Association of Hydrogeologists (IAH). Mr Jolly has experience in the assessment and development of palaeochannel groundwater resources, including the development of water supplies in hypersaline palaeochannels in Western Australia. His experience and expertise is such that he qualifies 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 Jolly consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

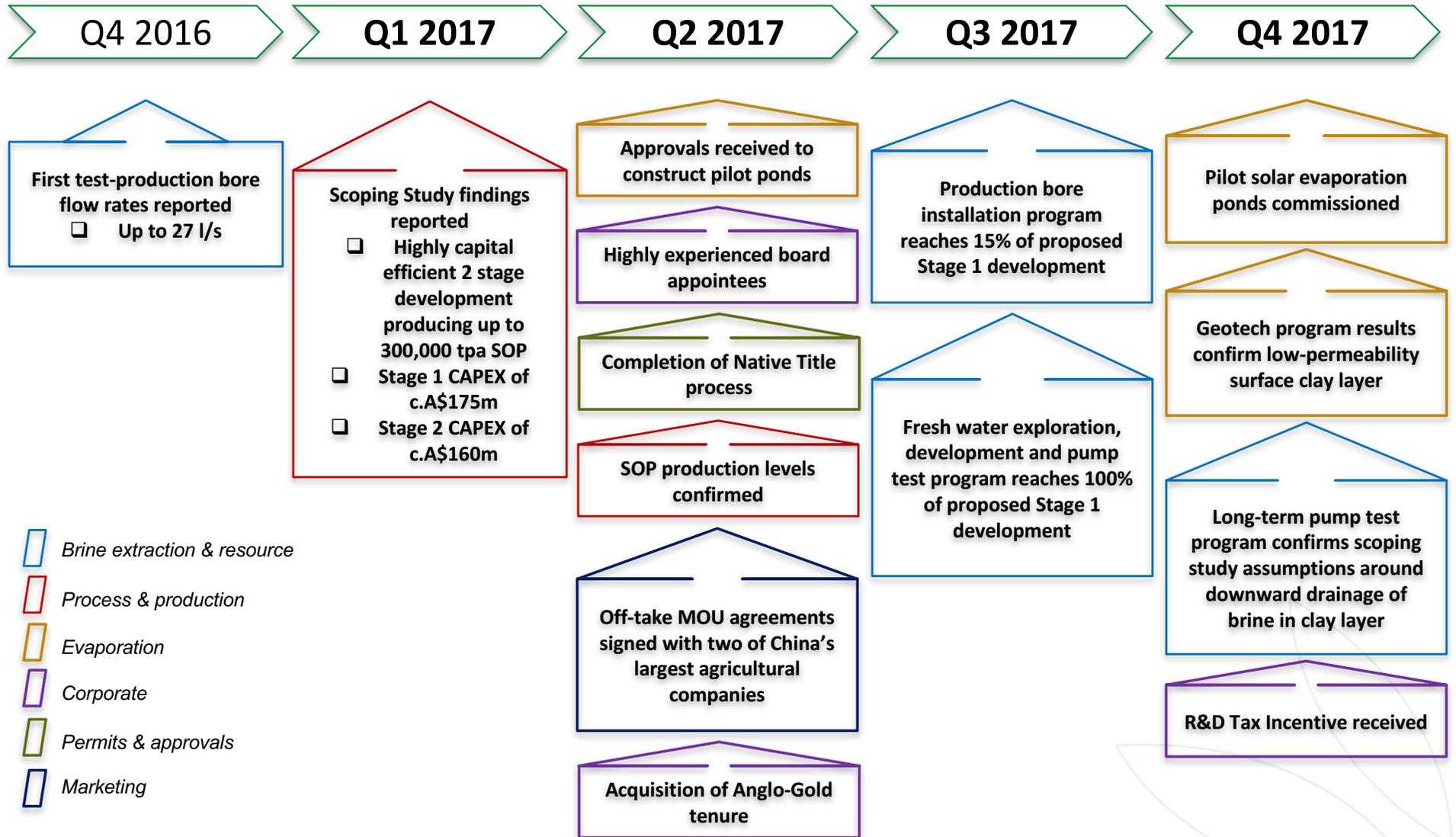
The Hydrogeological information in this report has been prepared by Carsten Kraut, who is a member of the Australasian Institute of Geoscientists (AIG), and International Association of Hydrogeologists (IAH). Carsten Kraut is contracted to the Company through Flux Groundwater Pty Ltd. Carsten Kraut has experience in the assessment and development of palaeochannel groundwater resources, including the development of water supplies in hypersaline palaeochannels in Western Australia. His experience and expertise is such that he qualifies 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 Kraut consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

## Footnotes to Disclosures

1. Refer to ASX announcement 27 July 2017 'Yamarna Gold Assets Review and Exploration Plans'. That announcement contains the relevant statements, data and consents referred to in this announcement. Apart from that which is disclosed in this document, Australian Potash Limited, its directors, officers and agents: 1. Are not aware of any new information that materially affects the information contained in the 27 July 2017 announcement, and 2. State that the material assumptions and technical parameters underpinning the estimates in the 27 July 2017 announcement continue to apply and have not materially changed.
2. Gold Road Resources Limited, ASX announcement 27 June 2017, 'Yamarna Exploration Update: Significant Intersections Returned Across Tenement Package'.
3. [www.goldfields.com.au](http://www.goldfields.com.au)
4. Refer to ASX announcement 23 March 2017 'Scoping Study Confirms Exceptional Economics of APC's 100% Owned Lake Wells Potash Project In WA'. That announcement contains the relevant statements, data and consents referred to in this announcement. Apart from that which is disclosed in this document, Australian Potash Limited, its directors, officers and agents: 1. Are not aware of any new information that materially affects the information contained in the 23 March 2017 announcement, and 2. State that the material assumptions and technical parameters underpinning the estimates in the 23 March 2017 announcement continue to apply and have not materially changed.



# The Last Year



- Brine extraction & resource
- Process & production
- Evaporation
- Corporate
- Permits & approvals
- Marketing



# Corporate Overview

APC provides investors with a capital efficient exposure to the rapidly evolving SOP outlook

Capital structure	
ASX ticker	APC
Share price (29 Nov 2017)	A\$0.11
Shares on issue (ASX: APC)	261m
Listed Options (ASX: APCOA)	38m
Unlisted Options	31m
Market capitalisation	A\$29m
Top 20	42%
Largest shareholder: Yandal Investments Pty Ltd	11%



Australian Potash Limited (ASX:APC)

## APC share price performance (1 year)





# Lake Wells Sulphate of Potash Project

Western Australia, 100% owned





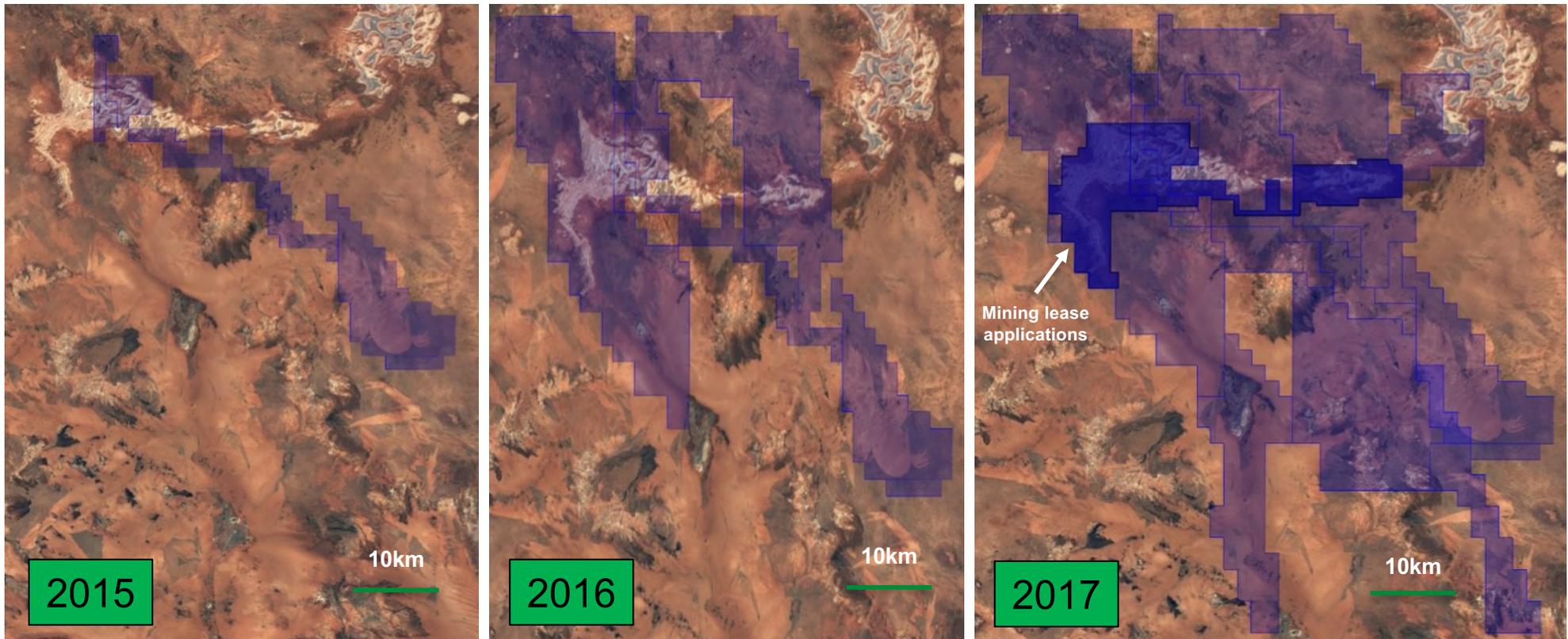
# Lake Wells Sulphate of Potash Project

- **100% ownership** of +2,000km<sup>2</sup> Lake Wells SOP project
  - March 2017 Scoping Study confirms potential for high returning 2 stage, **300ktpa SOP** operation
  - No Native Title lodged, registered and determined
  - **Long life, lowest cost** quartile SOP operation
  - Largest JORC Compliant Indicated SOP resource in Australia
  - **Low upfront capital** hurdle through two stage development strategy to 300ktpa SOP
  - Superior logistical solution to access markets
  - **H1 2018: Definitive feasibility study on target for completion**
- ❑ APC has drilled over 8,000m across 90 production, monitoring and exploration bores
  - ❑ 13 fresh water production bores developed and pump tested
  - ❑ 5 brine production bores developed and pump-tested
  - ❑ 54 monitoring bores developed





## APC's Lake Wells Tenure



Today APC holds a commanding position at Lake Wells

- +2,000kms<sup>2</sup> of exploration tenure
- Mining Leases covering entire Stage 1 ++ SOP project development envelope recommended for grant
- And 1/3<sup>rd</sup> of the North Yamarna greenstone belt



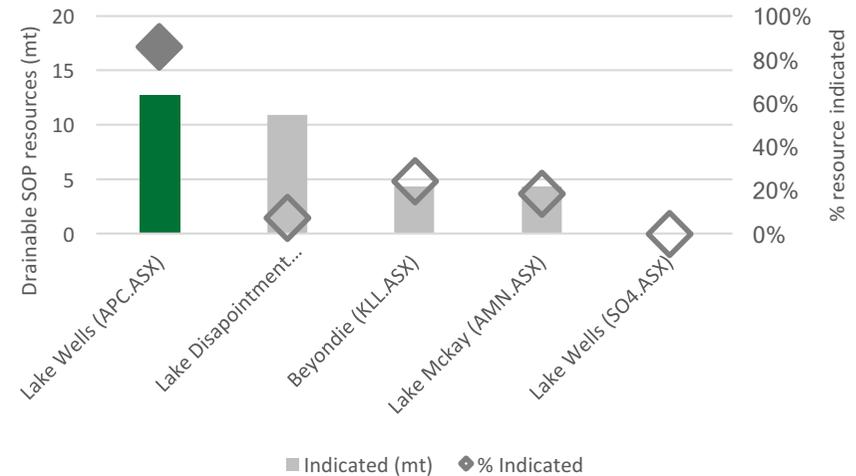
# A Significant SOP Resource

- Four out of the five Australian domiciled SOP aspirants report a specific yield resource estimate
  - JORC & CIM compliant
- Lake surface areas do not directly correlate to contained SOP resources
- APC's specific yield resource estimate applies appropriate modifying factors for the ability to extract the resource from the sediments\*
- The Lake Wells brine extraction model is based on a low risk industry proven bore field development strategy
  - Commonly used in Western Australia's Eastern Goldfield region for mining operations' water supply
  - Large scale borefield brine extraction operations include; SQM's Salar de Atacama, Orecobre's Olaroz

\* For full details see ASX release 23 March 2017, *Exceptionally Strong Scoping Study Findings*

Australian Potash Limited (ASX:APC)

## APC has the largest indicated resource amongst ASX development peers



Source: Company exchange releases, Salt Lake Potash (SO4) has not published a drainable resource estimate





# Advanced Permitting Process

- Australian Potash submitted Mining Lease applications over its development area in December 2016
- The Department of Mines, Industry Regulation and Safety (DMIRS) has recommended the Mining Leases be granted
- The Mining Lease applications have completed the Native Title process under the NTAA and no Native Title claim was lodged, registered or determined

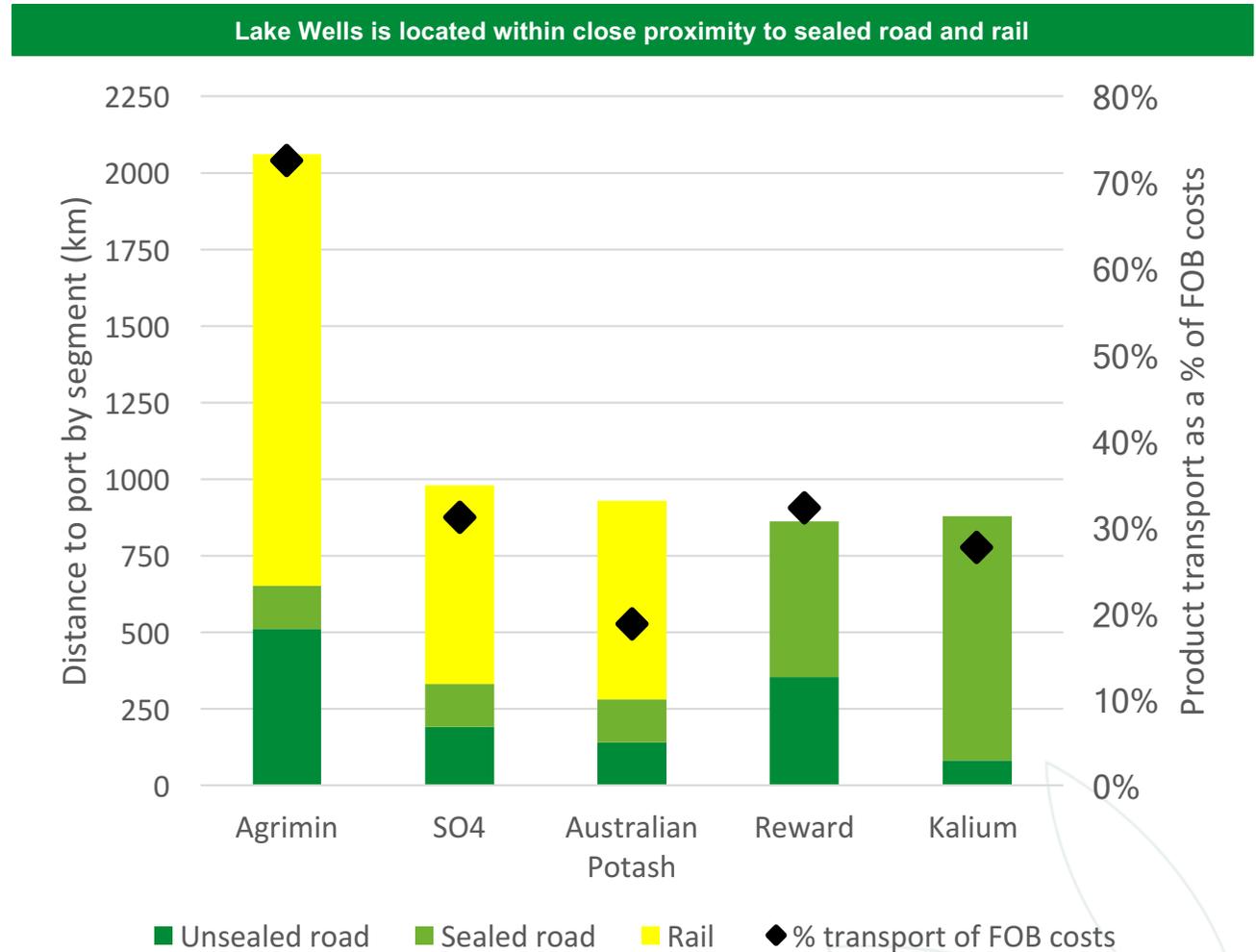
Company	Native Title claims over development area?	Indigenous Land Use Agreements (ILUA) signed?	Mining Leases recommended for grant by DMIRS?
<b>Australian Potash</b>	<b>No</b>	<b>n/a</b>	<b>Yes</b>
Reward Minerals	Yes	No	No
Kalium Lakes	Yes (2)	1 of 2	No
Agrimin	Yes	Yes	No
Salt Lake Potash	Yes	No	No





# Logistics Advantage

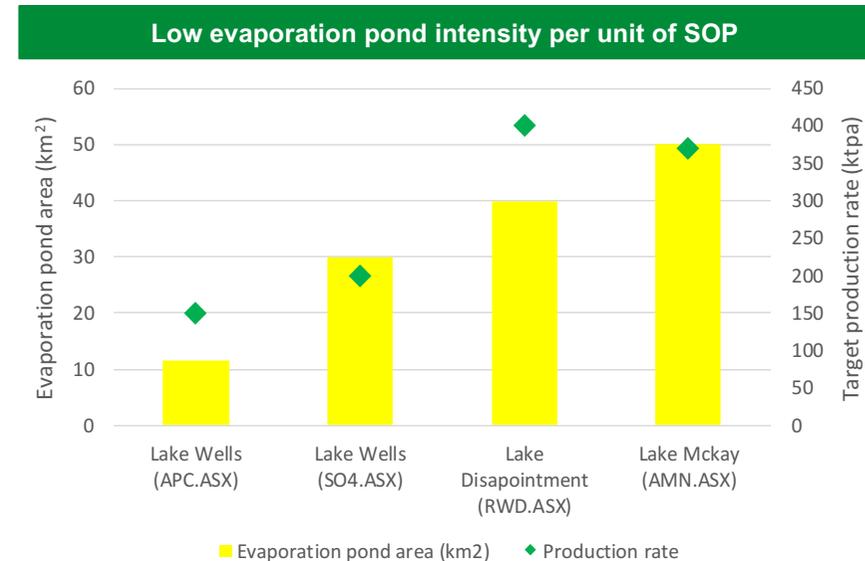
- Australia consumes c.72kt SOP annually, therefore Australian projects will be required to establish a seaborne export route for SOP
- APC's Lake Wells is exceptionally well located within close proximity to sealed road and established rail in-load/out-load infrastructure
- Rail access in the logistical solution is paramount – rail leads to lower freight cost & risk
- APC has identified opportunities to optimise logistics through the DFS program





# On-Playa Unlined Evaporation Ponds

- Pre-concentration and crystalliser ponds can be lined or unlined subject to base composition
- APC will develop the pre-concentration and crystalliser ponds on the lake surface taking advantage of an impermeable surficial clay layer
  - High level of supporting technical data including cone penetrometer testing
  - Conservative scoping study seepage rate assumption of 0.1mm/day
- Utilisation of unlined ponds whilst maintaining a high level of recovery provides a significant CAPEX saving over lined ponds
- MOP circuit incremental production does not require evaporation ponds and associated development capital
  - Lower evaporation pond area intensity v per total SOP production



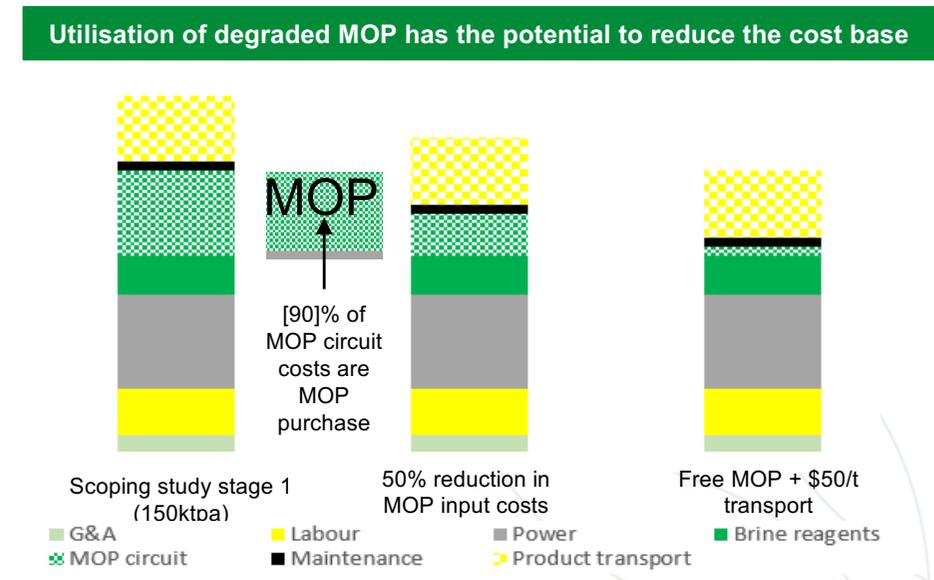
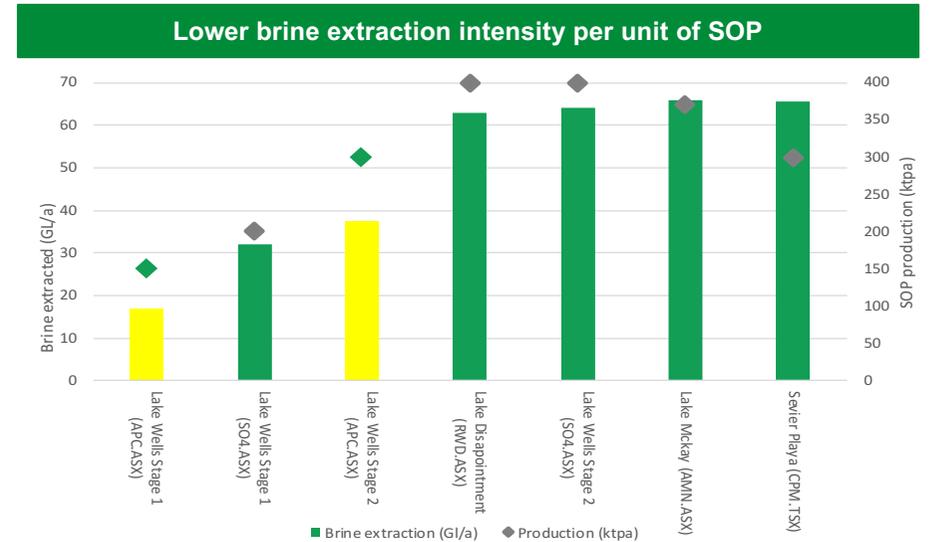
Source: Company exchange releases





# Highly Value Accretive MOP Conversion Circuit

- APC planned MOP conversion circuit utilises excess sulphate levels in brine to maximise value capture of resource and capital efficiency
- Proven process by Compass Minerals at its Great Lakes operation in Utah
- Scoping study economics assume benchmark MOP prices
- Modelling demonstrates the potential to utilise a degraded MOP product with the potential for material production cost reduction
  - MOP product degrades under hot humid storage conditions and becomes unfit for primary purpose
  - The Lake Wells MOP circuit requires the potassium content of MOP to be maintained to react with excess sulphate in the plant
- APC is investigating the potential to source degraded MOP product which will have a material effect on the Lake Wells cost base
- MOP circuit reduces annual brine extraction intensity per unit of SOP production
  - Benefits from shorter working capital cycle compared to pure brine based production





# Lake Wells: Bore versus Trench Analysis

In addition to data collection APC considered the following factors in the Scoping Study analysis to utilise a 100% borefield abstraction option at Lake Wells

Parameter	Bores	Trenches
Does the system work if & when the lake is under water?	Yes	No
Is the brine supply diluted if & when the lake is under water?	No	Yes
Will the brine supply be interrupted for long periods of time if & when the lake is under water?	No	Yes
Are they future-proofed against grade dilution due to fresh-water re-charge?	Yes	No
Is there the surface area at Lake Wells to rebuild the network of trenches every 5 – 8 years?	n/a	No
Are they limited to the depth of the aquifer?	Yes	Yes
What is the maximum depth of aquifer drawdown?	+170m	6m – 8m
Are they susceptible to slumping?	No	Yes
Number of brine extraction installations in Australia currently?	+10s of thousands	4?
Are they used at operating sites around the world?	Yes	Yes



# Peer Comparison

	Australian Potash (APC)	Reward Minerals (RWD)	Agrimin (AMN)	Salt Lake Potash (SO4)	Kalium Lakes (KLL)
Indicated JORC compliant SOP resource	12.7Mt	12.3Mt	4.4Mt	n/a	4.3Mt
Native Title status	NT free	2 claims 1 ILUA	1 claim 1 ILUA	1 claim NO ILUA	2 claims 1 ILUA
Road haul component in logistics	280km	862km	650km	330km	880km
Rail haul component in logistics	650km	NIL	1,410km	650km	NIL
Bores or trenches	BORES 100%	Some bores, mainly trenches	Trenches 100%	Some bores, mainly trenches	Some bores, mainly trenches
Target market	China, 2 x MOUs signed	TBD	TBD	TBD	Australia 1x China MOU
Lined or Unlined evaporation ponds	Unlined	TBD	TBD	Unlined	Lined
Market capitalisation	\$29m	\$47m	\$131m	\$93m	\$65m



# Key DFS Work Streams



Source: Compass Minerals

Activity	Status	Scheduled to complete
2017 bore install program	Complete	-
Fresh water program	Complete	-
2017 geotech program	Complete	-
Send trial SOP to MOU partners	On going	Q2 2018
2018 bore install program	Scheduled	Q2 2018
2018 geotech program	Scheduled	Q2 2018
Reporting of Feasibility Study results	On going	H2 2018
Formalize off-take agreements MOU/other partners	On going	H2 2018
Environment Protection Authority assessment	On going	TBD
Ministerial decision	On going	TBD
Early works	Not yet commenced	2019
FEED	Not yet commenced	2019
Project execution	Not yet commenced	2019



# Yamarna Gold Project

Western Australia, 100% owned





# Yamarna Gold Project

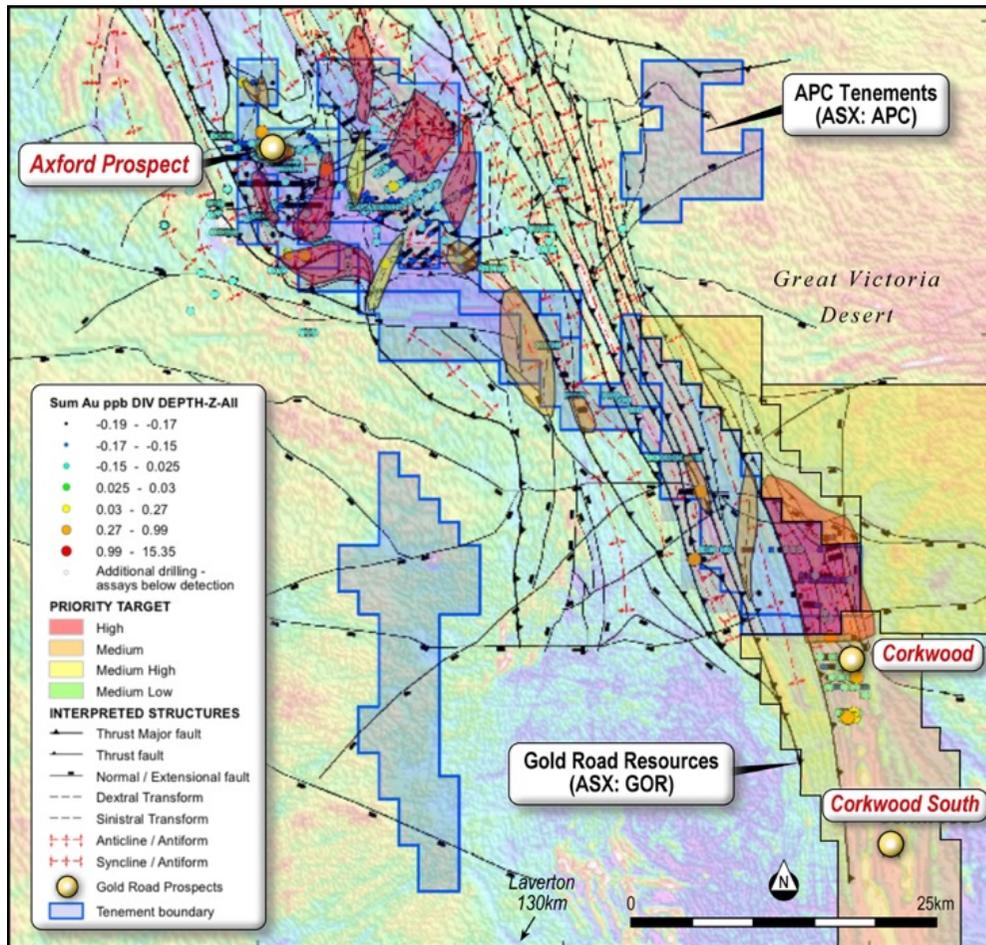
- ❑ Location - proven gold mineralised system south of and contiguous with Yamarna Gold project tenure
- ❑ Structural review and targeting conducted with 18 targets identified
- ❑ Pathfinder geochemistry & alteration mapping review conducted with 16 targets identified
- ❑ Coincident structural and geochem/litho targets with 16 priority targets identified
- ❑ Very limited data set across majority of project area
  - Only 527 BOH geochem samples in review
  - Only 57 RC holes across entire package
  - Package area > 1,300km<sup>2</sup>

**CSA conclude “this area is truly greenfields, and covers an area equivalent to the complete area of other known major greenstone belts.”**





# Yamarna Shear – Structural Dilatory Zone



APC tenement outline in relation to Gold Road Resources' North Yamarna Ibanez Prospect

## Outstanding regional success

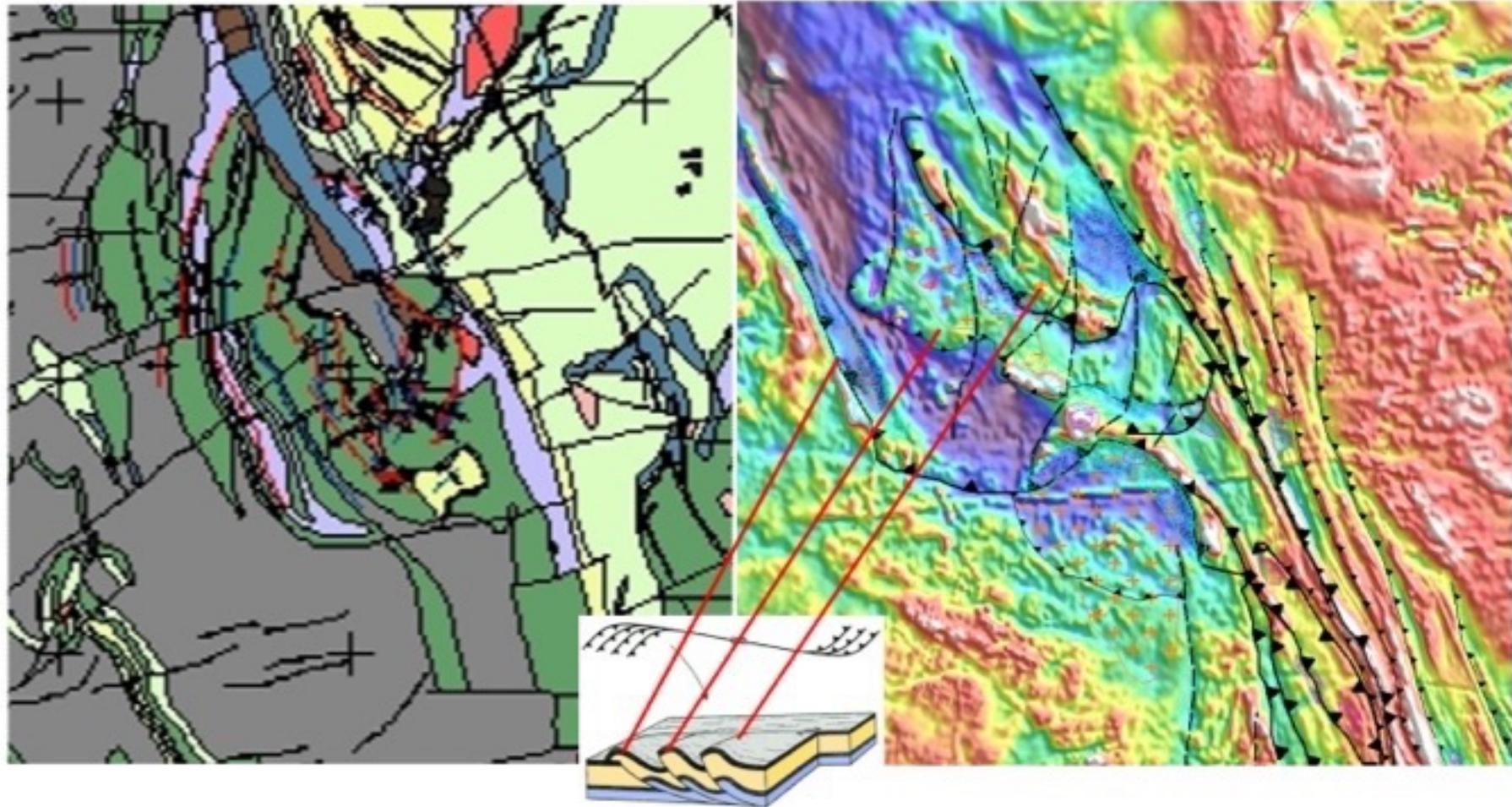
- June 2017 adjoining neighbour Gold Road Resources (ASX: GOR)<sup>2 3</sup> released outstanding gold results 2kms south-east of APC's tenement holding at **Ibanez** prospect including
  - 10m @ 28.76g/t Au
  - 9m @ 4.56g/t Au
  - 8.20m @ 11.63g/t Au
- Previous APC drilling at **Axford**<sup>1</sup> prospect includes
  - 6m @ 3.46g/t Au
  - 48m @ 0.51g/t Au and
  - 10m @ 1.55g/t Au



# Structural Analogues: Archean greenstone

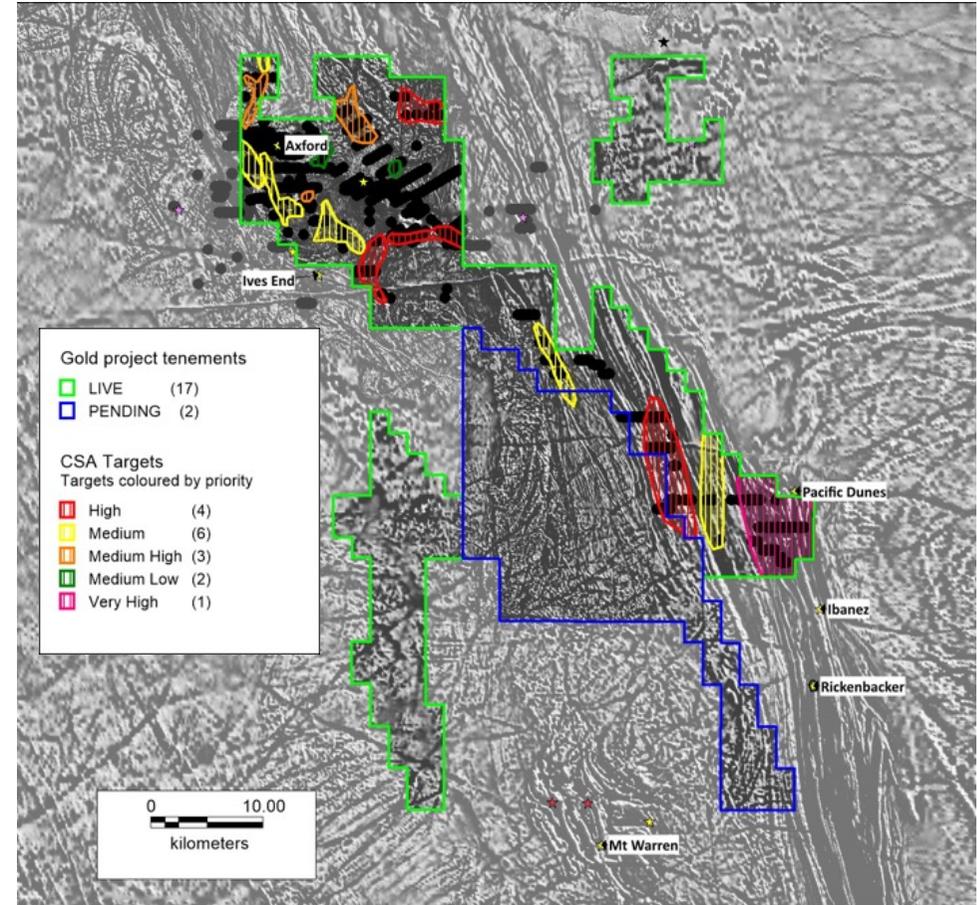
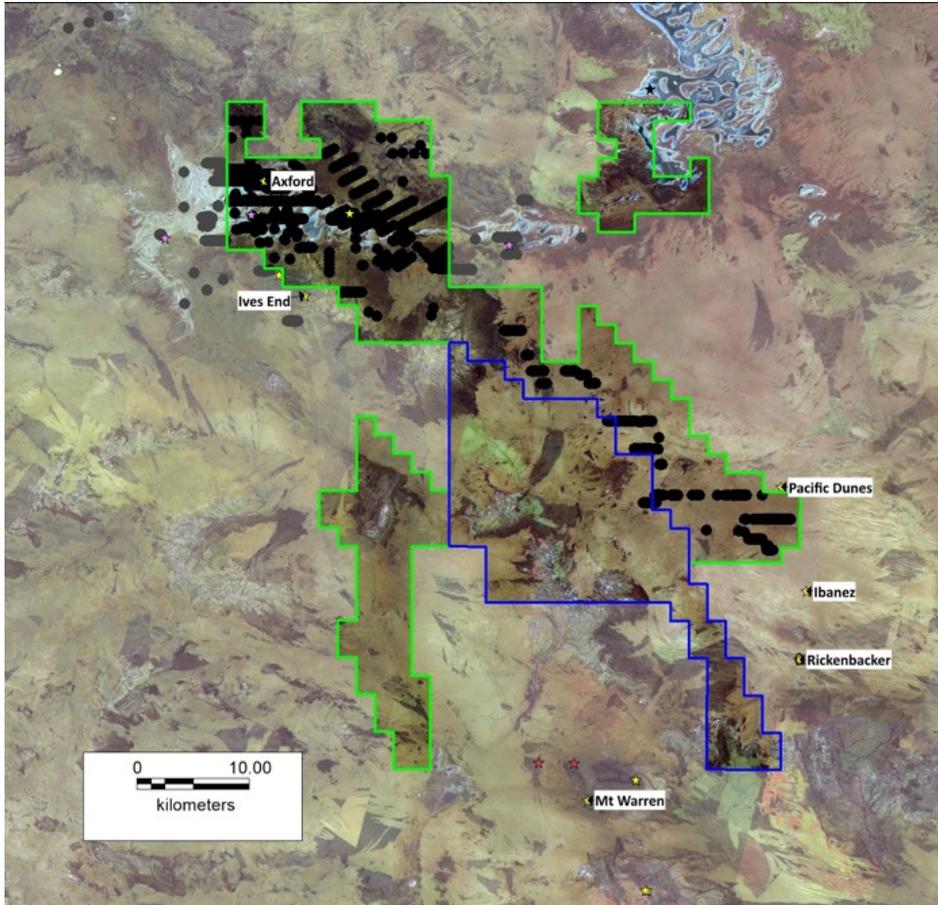
Timmins, Canada: >100MOz

Lake Wells





# Geochemical targeting



Geochemical analysis by Dr Scott Halley indicates intrusion related mineralization, where analogues include; Kanowna Belle (+6Moz WA), Wallaby (+8Moz WA), Jupiter (+1.3Moz WA), Hemlo (+20Moz Canada)



# Directors

**Matt Shackleton**  
Executive Chairman



Matt is a resources executive and Chartered Accountant with 20 years experience in senior management and board roles. Previously the Managing Director of ASX listed Western Australian gold developer Mount Magnet South NL, Matt was the founding director of ASX listed and West African gold and bauxite explorer Canyon Resources Limited, and previously an Executive Director with Brazilian gold explorer Mineralis Limited. He has also held senior roles with Bannerman Resources Limited, a uranium developer, Skywest Airlines, iiNet Limited and London investment bank DRCM Global Investors.

**Rhett Brans**  
Non-executive Director



Mr Brans is an experienced director and civil engineer with over 45 years experience in project developments. He is currently a Non-executive Director of Syrah Resources and Carnavale Resources Ltd. Previously, Mr Brans was a founding director of Perseus Mining Limited and served on the boards of Tiger Resources Limited and Monument Mining Limited.

**Brett Lambert**  
Non-executive Director



Mr Lambert is a mining engineer and experienced company director in the Australian and international mineral resources industry. Over a career spanning 35 years, Mr Lambert has held senior management roles with Western Mining Corporation, Herald Resources, Western Metals, Padaeng Industry, Intrepid Mines, Thundelarra Exploration and Bullabulling Gold. He has successfully managed a number of green-fields resource projects through feasibility study and development and has been involved in numerous facets of financing resource project development.



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