14 JUL 2021

ASX: TMG

# ASX ANNOUNCEMENT

# Investor Presentation

Trigg Mining Limited (**ASX: TMG**) (**Trigg** or the **Company**) is pleased to release a copy of its latest Investor Presentation.

This announcement was authorised to be given to ASX by the Board of Directors of Trigg Mining Limited.

Keren Paterson .

**Keren Paterson**
Managing Director & CEO

Trigg Mining Limited

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For more information please contact:


**Keren Paterson**
Managing Director & CEO

Trigg Mining Limited
(08) 6114 5685
info@triggmining.com.au

**Nicholas Read**
Investor and Media Relations

Read Corporate
(08) 9388 1474
nicholas@readcorporate.com.au


Investor Presentation
14 July 2021

# Lake Throssell: Unlocking the potential of Australia's newest SOP Project

*New high-grade discovery puts Trigg Mining front and centre of Australia's fast-growing SOP Industry*

TRIGG MINING

**ASX : TMG**

#mining4farmers

# THE TRIGG MINING INVESTMENT PROPOSITION

Modern, purpose-driven company helping to deliver global food security

Located in the low-risk jurisdiction of Western Australia

Strategic landholding – 100% rights to 3,500km$^2$ of an evolving sulphate of potash production hub

Lake Throssell – a rapidly developing **large, high-grade SOP** discovery – economic studies underway

Sustainable mining – solar evaporation of hyper-saline brine

Sulphate of Potash (SOP) – a premium mineral fertiliser essential for high-value agricultural products

Strong global market and demand fundamentals driven by global mega trends

Australia currently imports all its potash needs

# CORPORATE OVERVIEW

## Board of Directors

| | |
|---|---|
| Managing Director & CEO | Keren Paterson |
| Non Executive Chairperson | Michael (Mike) Ralston |
| Non Executive Director | Rod Baxter |
| Non Executive Director | William (Bill) Bent |

## Management Team

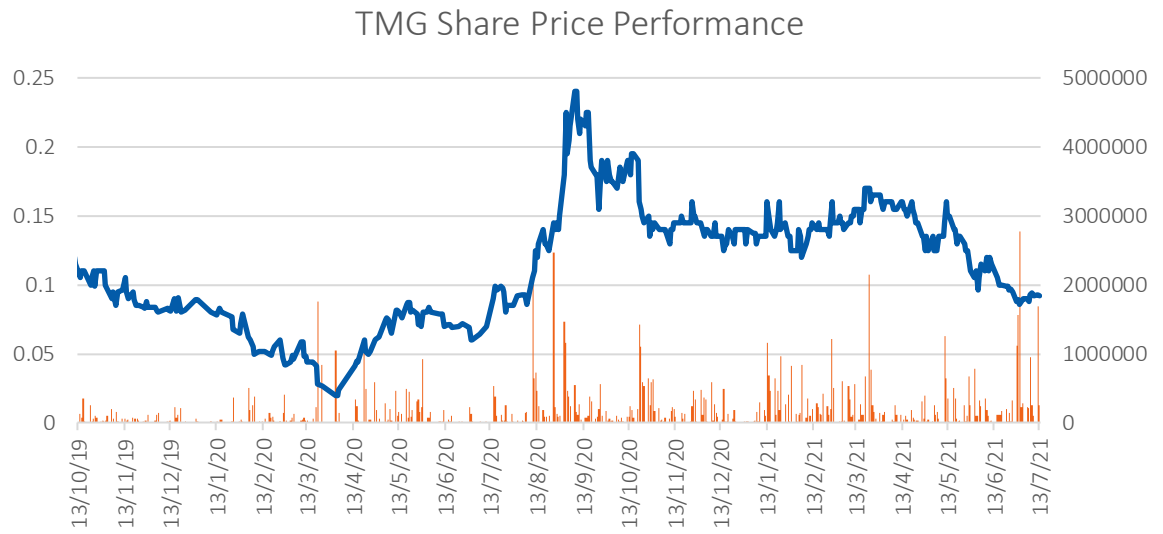
| | |
|---|---|
| Chief Operating Officer | Tony Chamberlain |
| Company Secretary | Karen Logan |
| Study Manager | Chris Williams |
| Principal Hydrogeologist | Adam Lloyd |
| Advisor - Corporate Finance | John Ciganek, Euclase Capital |

## Top 10 Shareholders

| | |
|---|---|
| Michael Ralston <Ralston Family> | 6.6% |
| Susetta Holdings <Wheeler Family> | 3.9% |
| KP Consulting Group <SSB> | 3.6% |
| Julian Rodney Stephens <One Way> | 3.6% |
| William Bent <Bent Family> | 3.6% |
| Kenneth William Vidler | 2.0% |
| Silverfox Holdings <Silverfox Family> | 1.8% |
| Keren Paterson | 1.9% |
| Vineeta Kumar | 1.5% |
| Rock Cod Investments | 1.5% |
| Total | 30.0% |

## Capital Structure

| | |
|---|---|
| Ordinary Shares (TMG) | 96,719,165 |
| Share Price (13/07/21) | $0.09 |
| Market Capitalisation | $8.8 million |
| Cash (31/03/21) | $2.5 million |
| Renounceable rights proceeds (25/06/21) | $3.4 million |
| Debt | - |




Based on share price as at 13/06/2021

# POSITIONED TO RAPIDLY RESPOND TO GROWING DEMAND FOR HIGH-QUALITY FERTILISERS

## LARGE, HIGH GRADE SOP DEPOSIT

1 **Lake Throssell SOP Project**
Inferred Mineral Resource of
14.2Mt @ 10.3kg/m$^3$ SOP[1] *plus*
Exploration Target of 2.6 - 9.4Mt

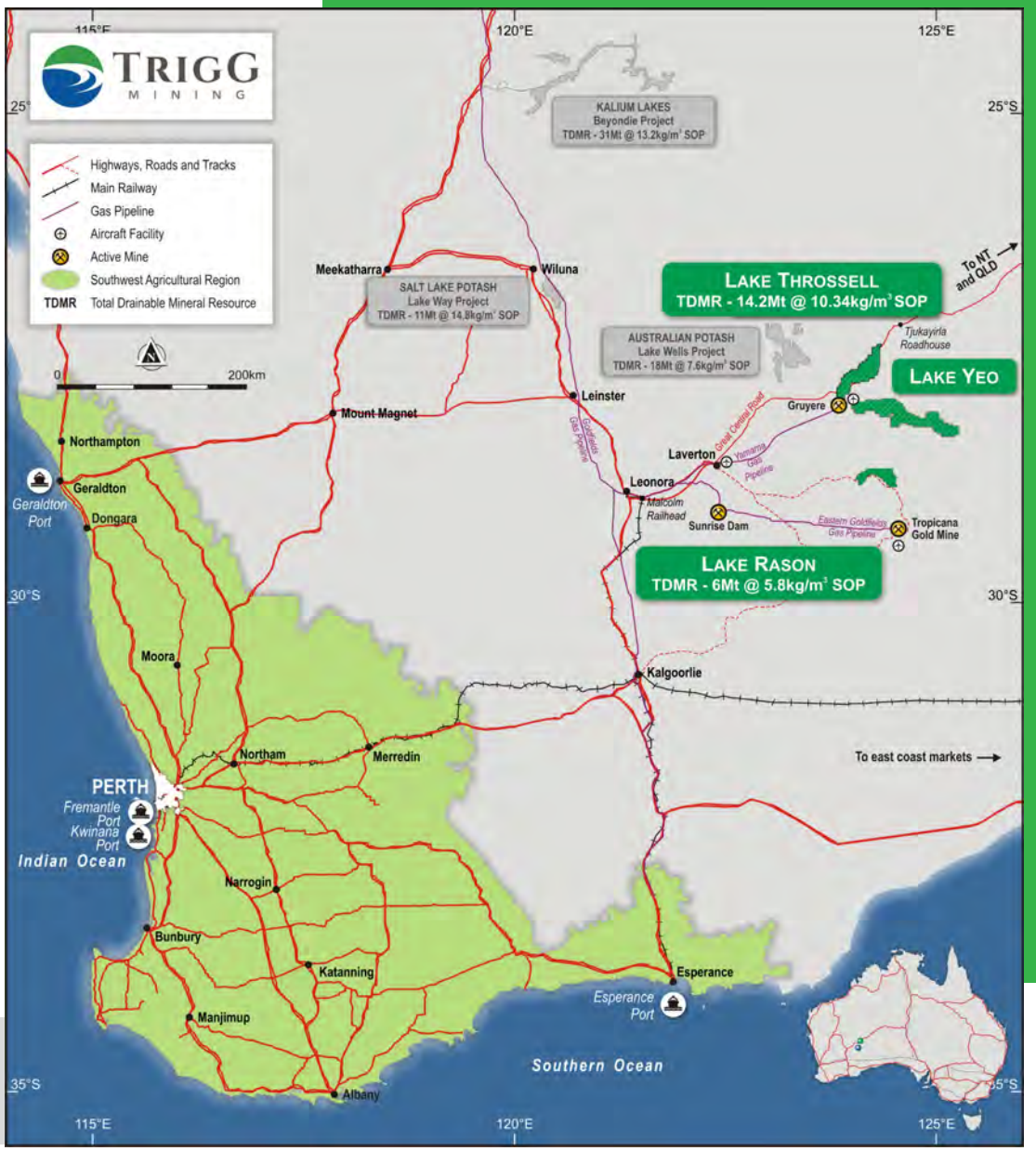
2 **Lake Rason SOP Project**
Inferred Mineral Resource of
5.9Mt @ 5.8kg/m$^3$ SOP[1]

1. See Competent Person Statement

Over 3,500km$^2$ of strategic tenure located close to energy and transport infrastructure

Total Mineral Inventory of more than 20Mt of SOP with prospectivity to expand further

Work underway on a maiden Indicated Mineral Resource at Lake Throssell due this month – to underpin Scoping Study due in late Q3/early Q4 2021

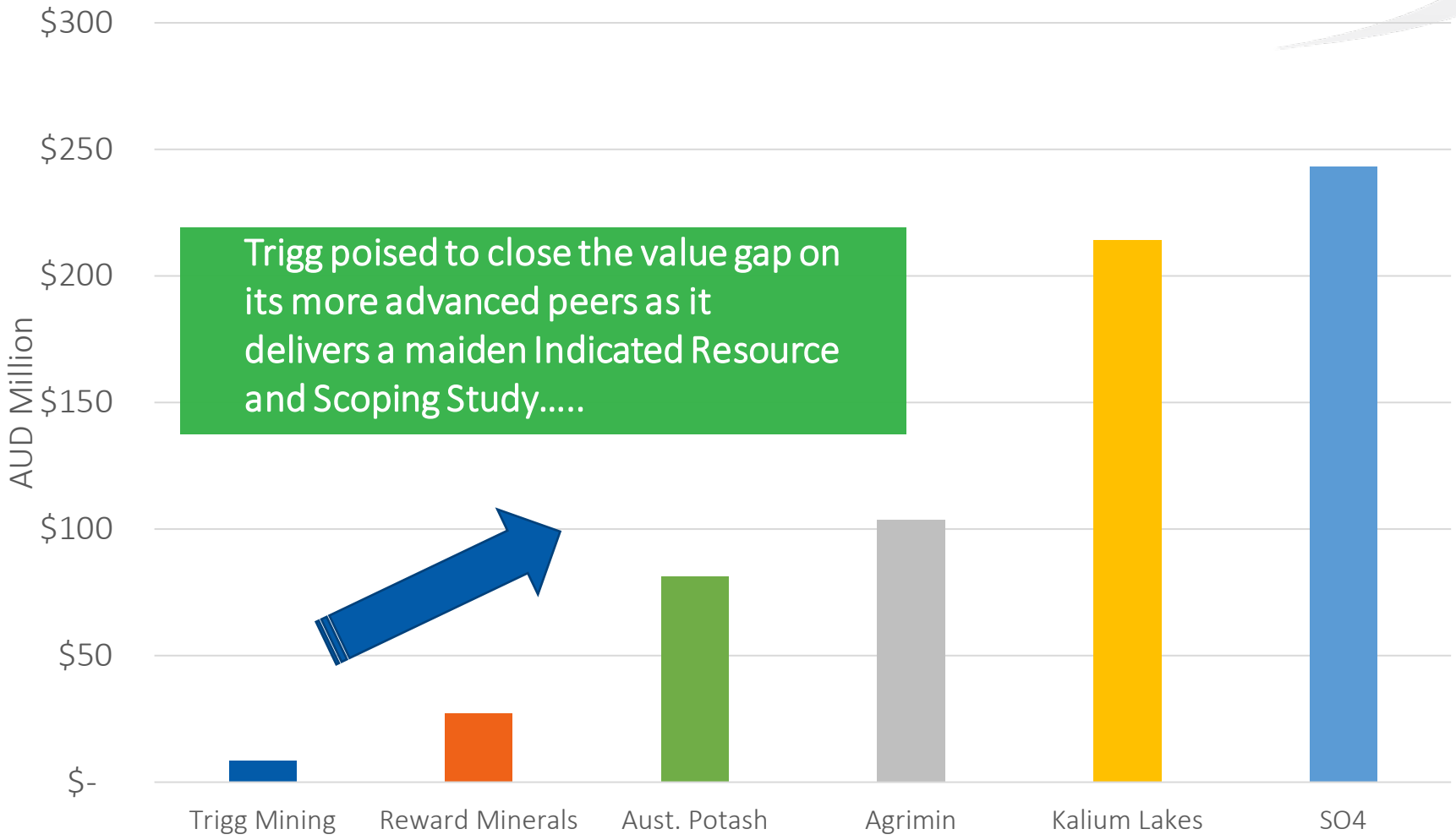



The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration in these areas to estimate a Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource.

Total Drainable Mineral Resources (TDMR): ASX announcements - Australian Potash (02/11/2020), SO4 Limited (11/10/2019), Kalium Lakes (23/10/2020) and Trigg Mining (11/05/2021). All figures are rounded.

# MARKET CAPITALISATION OF AUSTRALIAN SOP COMPANIES

*Trigg Mining – a ground floor investment opportunity in an exciting new Australian growth industry*




Based on ASX share prices as at 13/07/2021

# WHY SULPHATE OF POTASH?

# WHAT IS SULPHATE OF POTASH (SOP)?

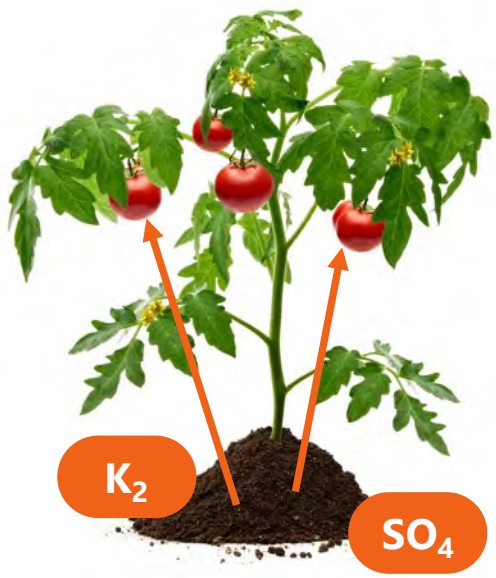
SOP (Potassium Sulphate, $K_2SO_4$) is an essential fertiliser for high-value, chloride sensitive crops such as fruit, vegetables, avocados, coffee beans, grapes, tree nuts, cocoa, anything grown under glass and in arid and acidic soils.

| POTASSIUM | ($K_2$) |
|---|---|

- Essential for all living things
- Promotes resistance to disease, drought and frost
- Improves quality, taste and appearance
- Required in large quantities for proper plant growth and optimal crop yields

| SULPHATE ($SO_4$) | SULPHUR + OXYGEN |
|---|---|

- Necessary for the formation of chlorophyll and plant proteins
- Increases crop yields and produce quality




| Vs. MURIATE OF POTASH (MOP) | Muriate of Potash (Potassium Chloride) is a cheaper, more abundant source of potash, BUT it contains almost 50% chloride which is detrimental to chloride-sensitive crops and arid soils. It also contains no sulphur. |
|---|---|

# STEADY DEMAND GROWTH DRIVEN BY GLOBAL MEGA TRENDS

**World Population** ↑ 1.1% pa growth to reach 8.6 billion in 2030

\+

**Arable Land** ↓ Reduced by more than half since 1975

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**Fertiliser Application** ↑ More than doubled In the past 40 years

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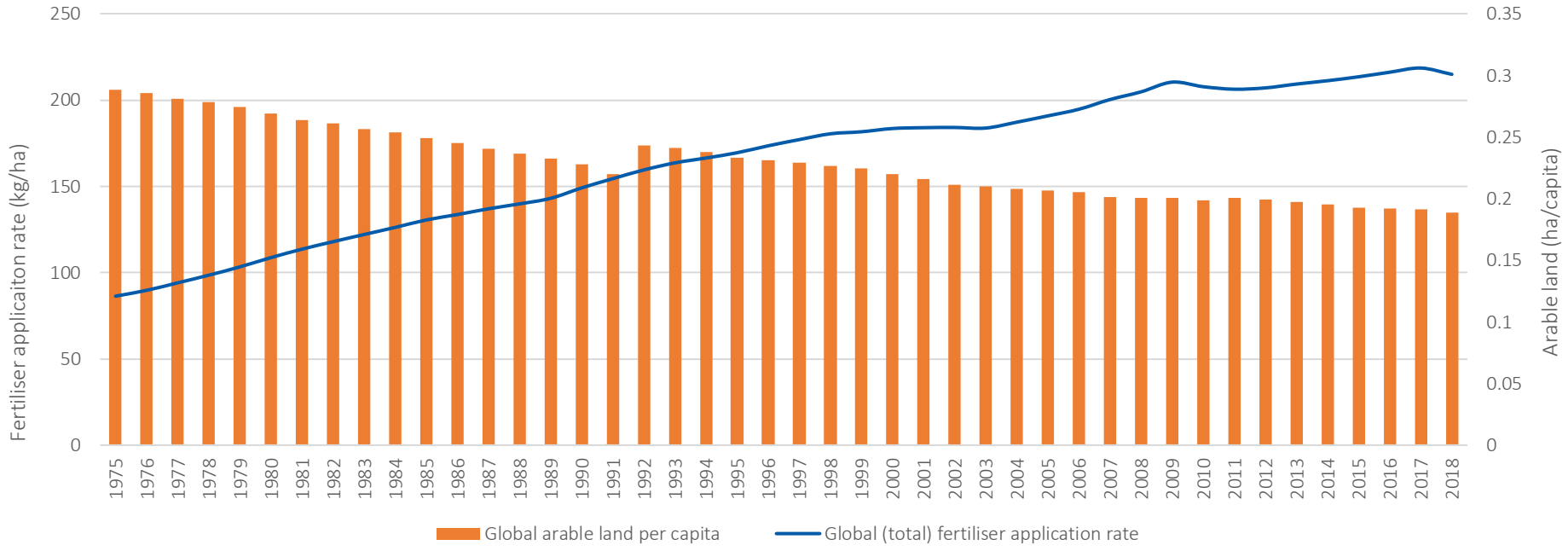
**Global SOP Demand** ↑ 7 Mt expanding at 3% pa (>200,000tpa)

Global arable land and fertiliser application rates

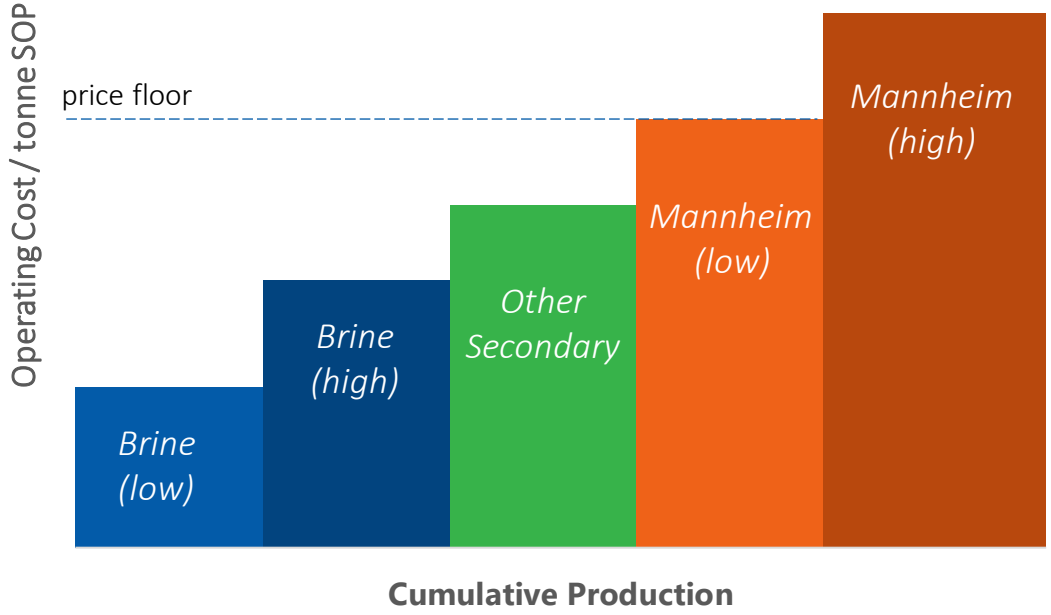


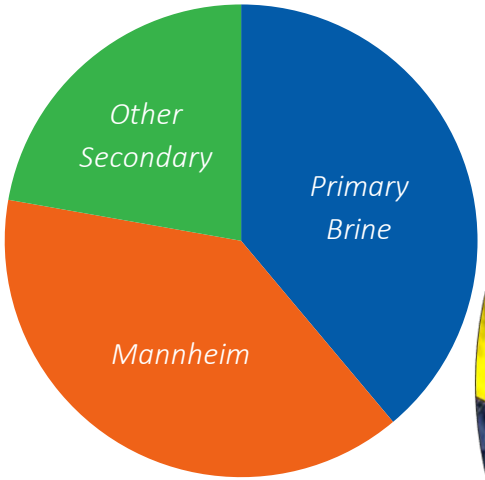

*Sources:* *United Nations, World Bank CRU*

# BRINE SOP – LOWEST COST PRODUCTION

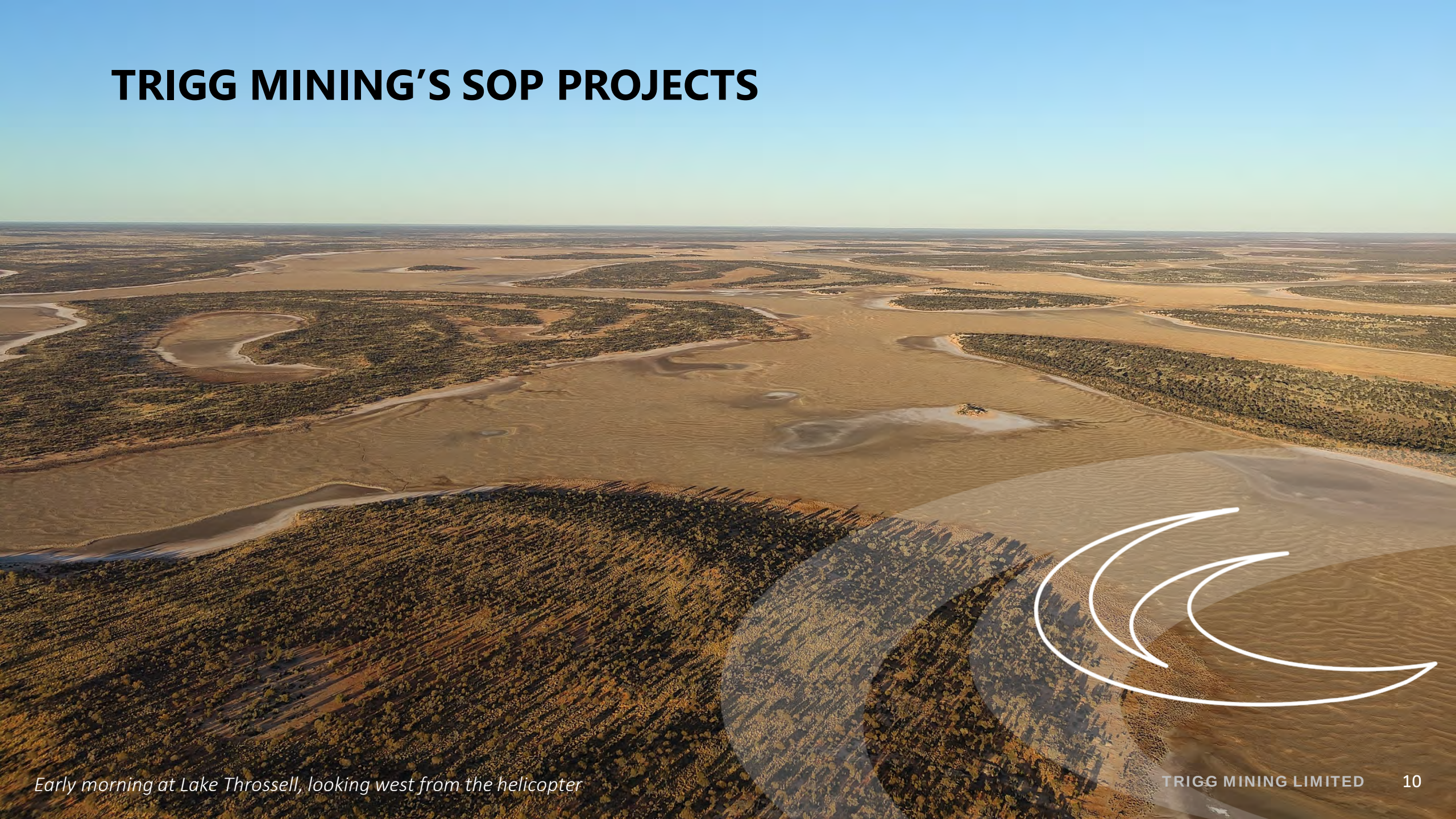
- Primary production of SOP, from brine, is the lowest cost source of SOP but there is insufficient resources available to meet global demand of ~7Mtpa
- The Mannheim Process is required to meet demand. The process heats MOP with sulphuric acid to around 800°C, producing hydrochloric acid as a waste product
- As both methods are needed to meet global demand the Mannheim Process creates an industry price floor well-above the cost of brine sources

*With the natural endowment of the minerals dissolved in brine and the ability to harvest solar evaporation to produce SOP, brine producers are generally low-cost producers*



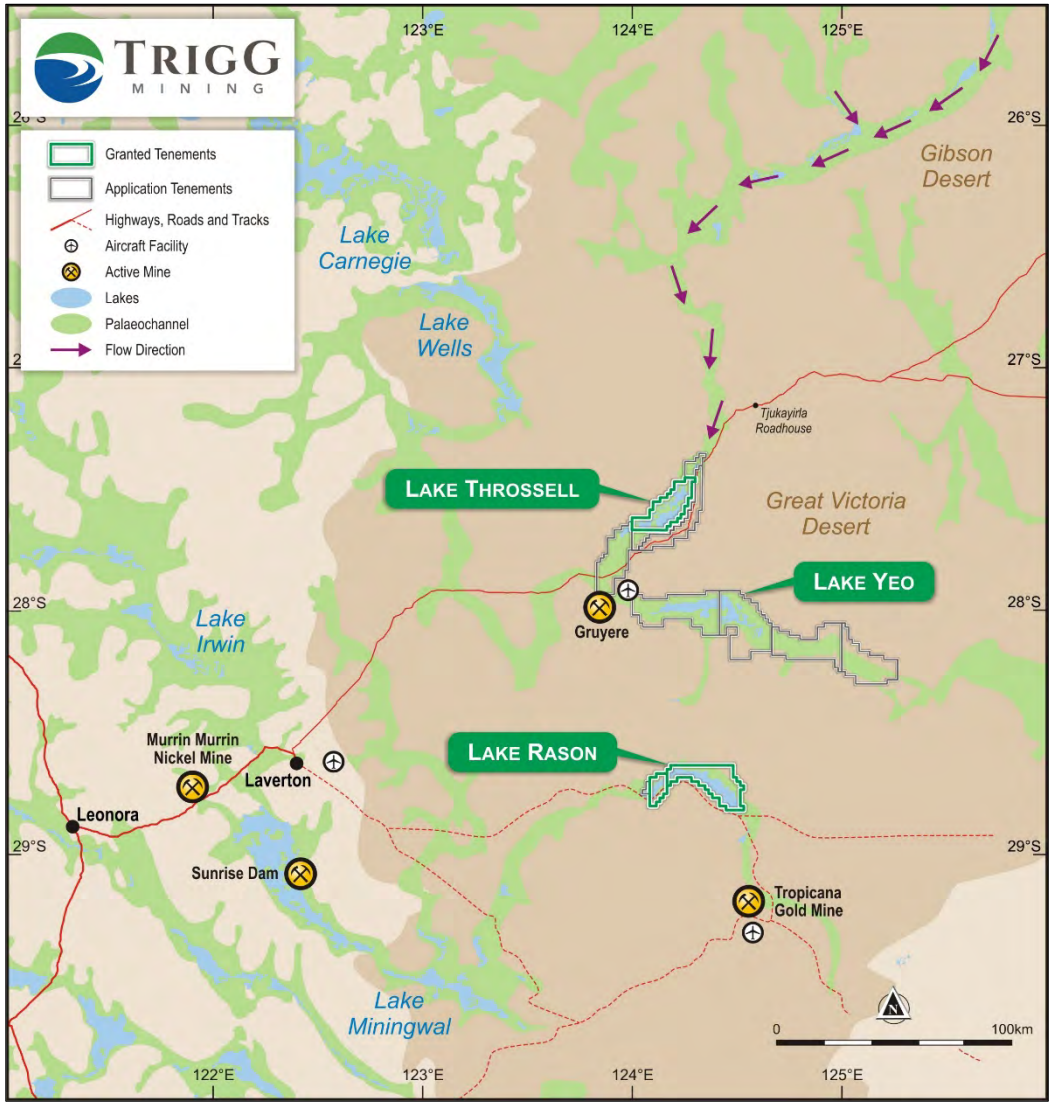




# TRIGG MINING'S SOP PROJECTS



*Early morning at Lake Throssell, looking west from the helicopter*

# GEOLOGY / HYDROGEOLOGY




The projects lie near the terminus of extensive palaeovalley catchment areas (ancient river valleys) which extend for over 500km and are underlain by potassium-bearing source rocks (granites, sandstones and salt diapirs).

Brine solutions carrying potassium mineralisation have been concentrating in the palaeovalleys and salt lakes (evaporite systems) for millions of years.

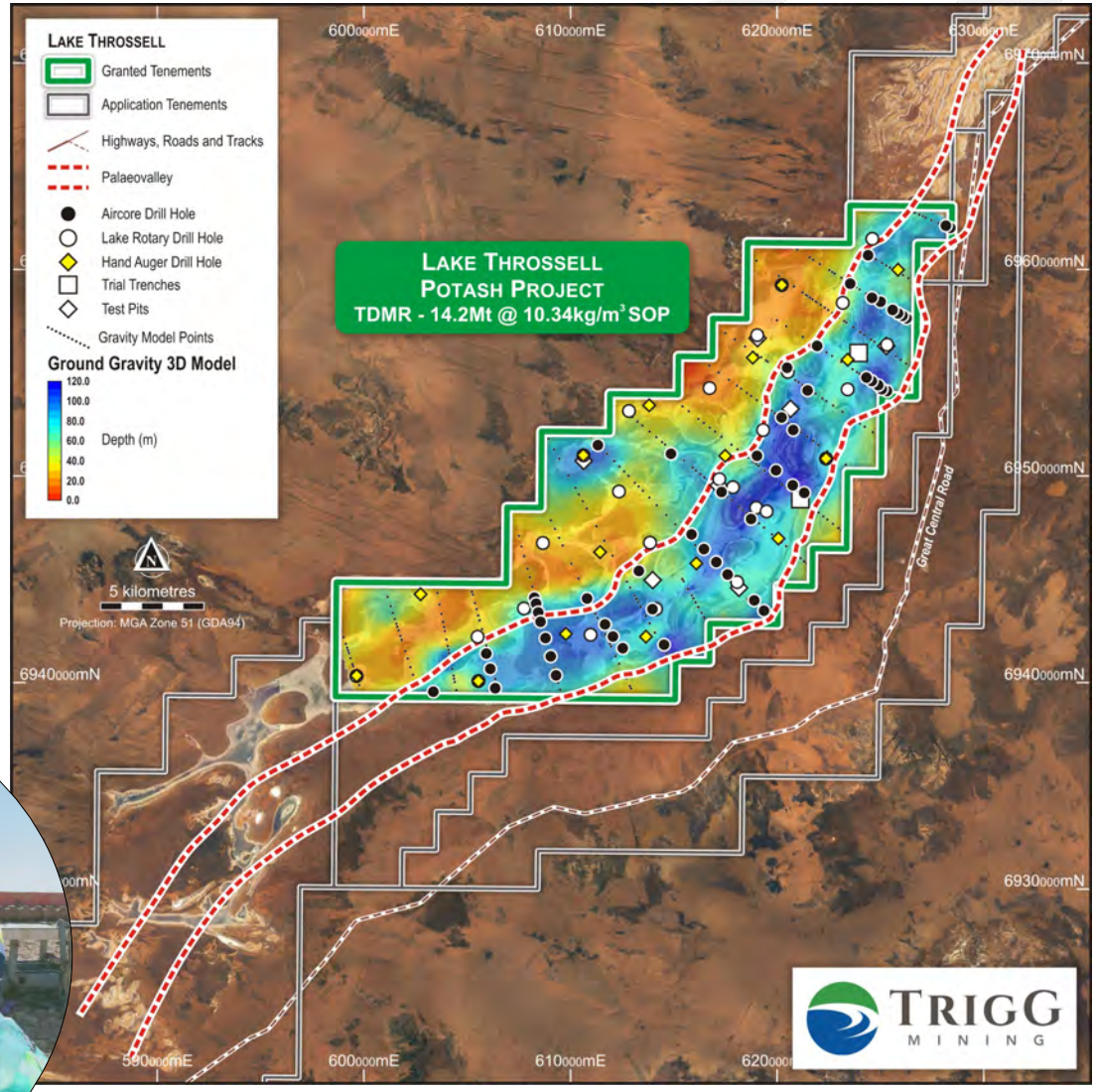

*Lake Throssell*

# LAKE THROSSELL SULPHATE OF POTASH PROJECT

## An extensive sulphate of potash discovery

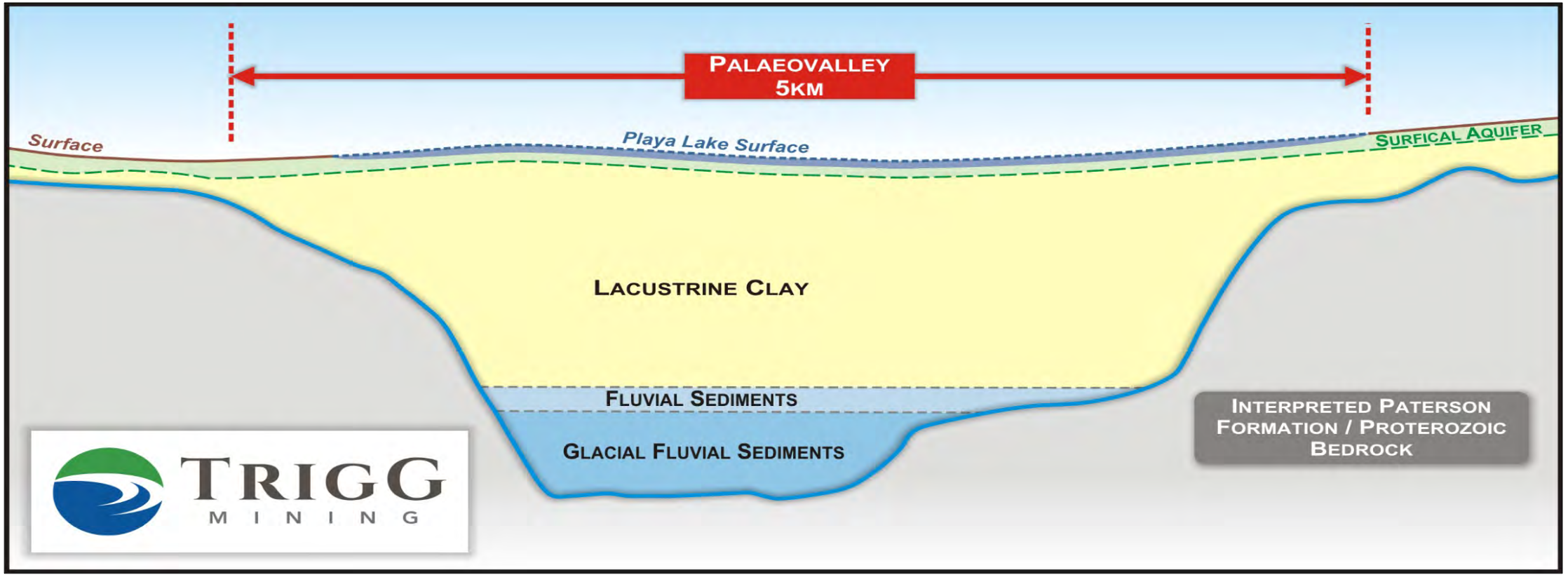
### HIGHLIGHTS

- Inferred Mineral Resource – 14.2Mt @ 4,638mg/L K (or 10.34kg/m$^3$ SOP)
- Exploration Target of an additional 2.6 to 9.4Mt SOP
- Consistent and favourable chemistry throughout the Mineral Resource
- Recent announcement has demonstrated extraction of upper aquifer
- Work underway on maiden Indicated Mineral Resource



# LAKE THROSSELL SULPHATE OF POTASH PROJECT

Palaeovalley up to 5km wide, 100m deep and ~36km along strike within the central granted tenement



# LAKE THROSSELL SOP PROJECT DEVELOPMENT

## Successful completion of brine pump trials

- Input to pending Indicated Mineral Resource upgrade
- Data will allow sizing of trench network to support the Scoping Study
- Work is planned for first half of next year to install test bores to demonstrate extraction of the basal aquifer brines
- Scoping Study due for completion in Q3 2021

# LAKE THROSSELL SULPHATE OF POTASH PROJECT

## Located nearby established Infrastructure

- The Great Central Road passes through the Project connecting Laverton in WA to Winton in QLD via Alice Springs
    - Upgrade underway to establish the Outback Highway to provide a reliable trucking route across central Australia
    - Works have commenced with the first 40km from Laverton currently underway
- ~60km to the Yamarna gas pipeline
- ~300km to the Malcom Railhead at Leoneora
- ~850km total distance to the container terminal at Port of Fremantle

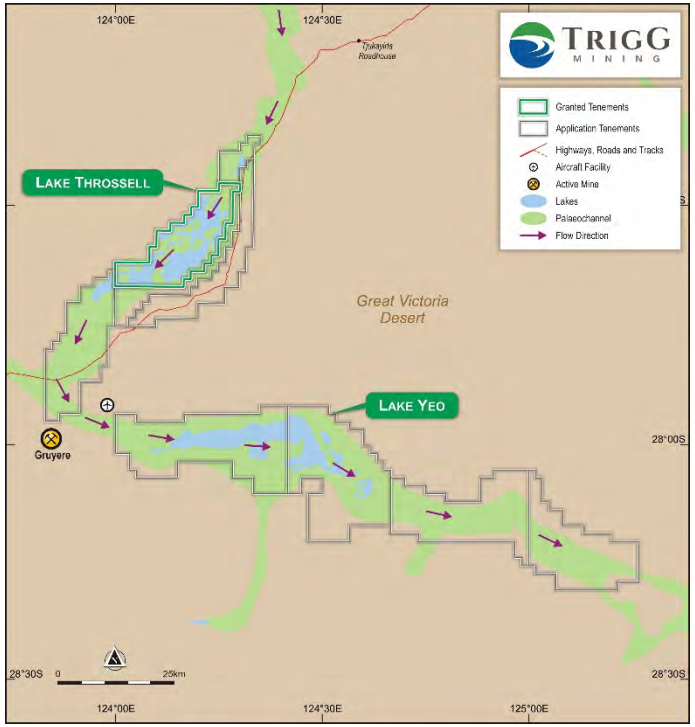
*Outback Highway, Laverton WA, May 2021*

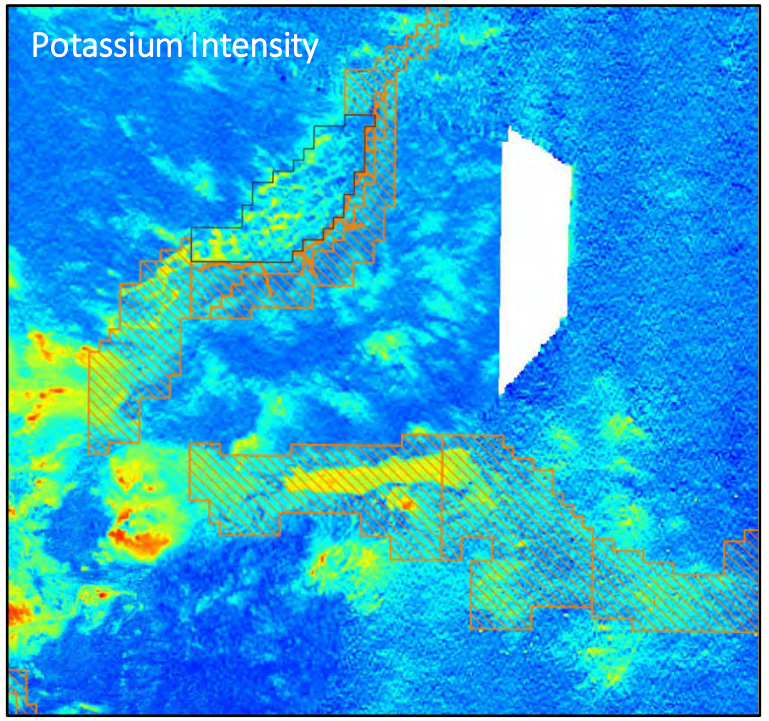

*Fremantle Port, WA*

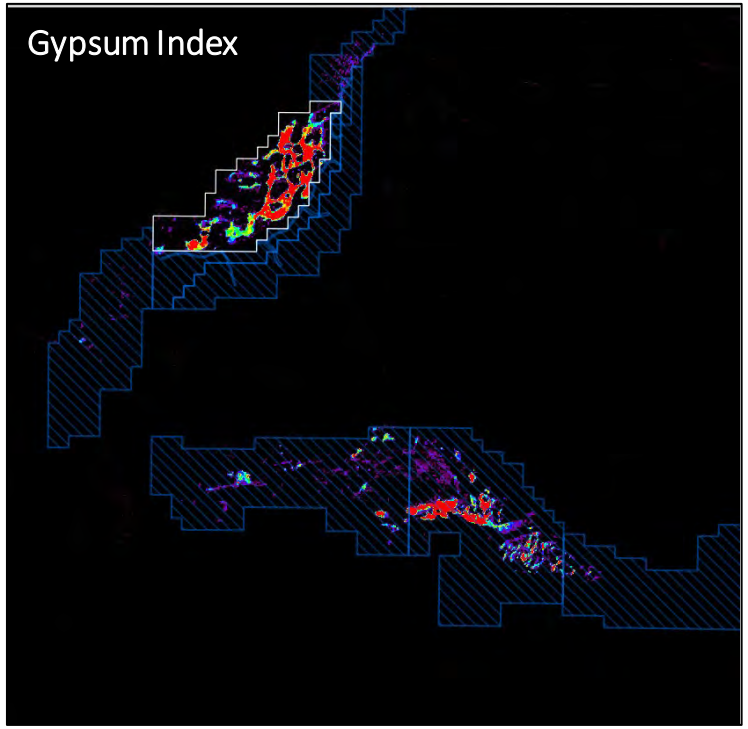
# GROWTH PIPELINE – LAKE YEO SOP PROJECT

## Potential Lake Throssell Expansion

- Lake Yeo SOP Project covers 1,915km² including more than 200km² of playa lake and almost 130km of interpreted palaeovalley
- The Project lies along the palaeovalley from Lake Throssell ~35km to the south
- Radiometric potassium (K) intensity[2] shows elevated K at the lake surface compared to surrounding regolith to a greater extent than Lake Throssell
- The Aster Gypsum Index[2] maps high levels of gypsum present in parts of the lake indicating sulphate ($SO_4$) presence at the surface



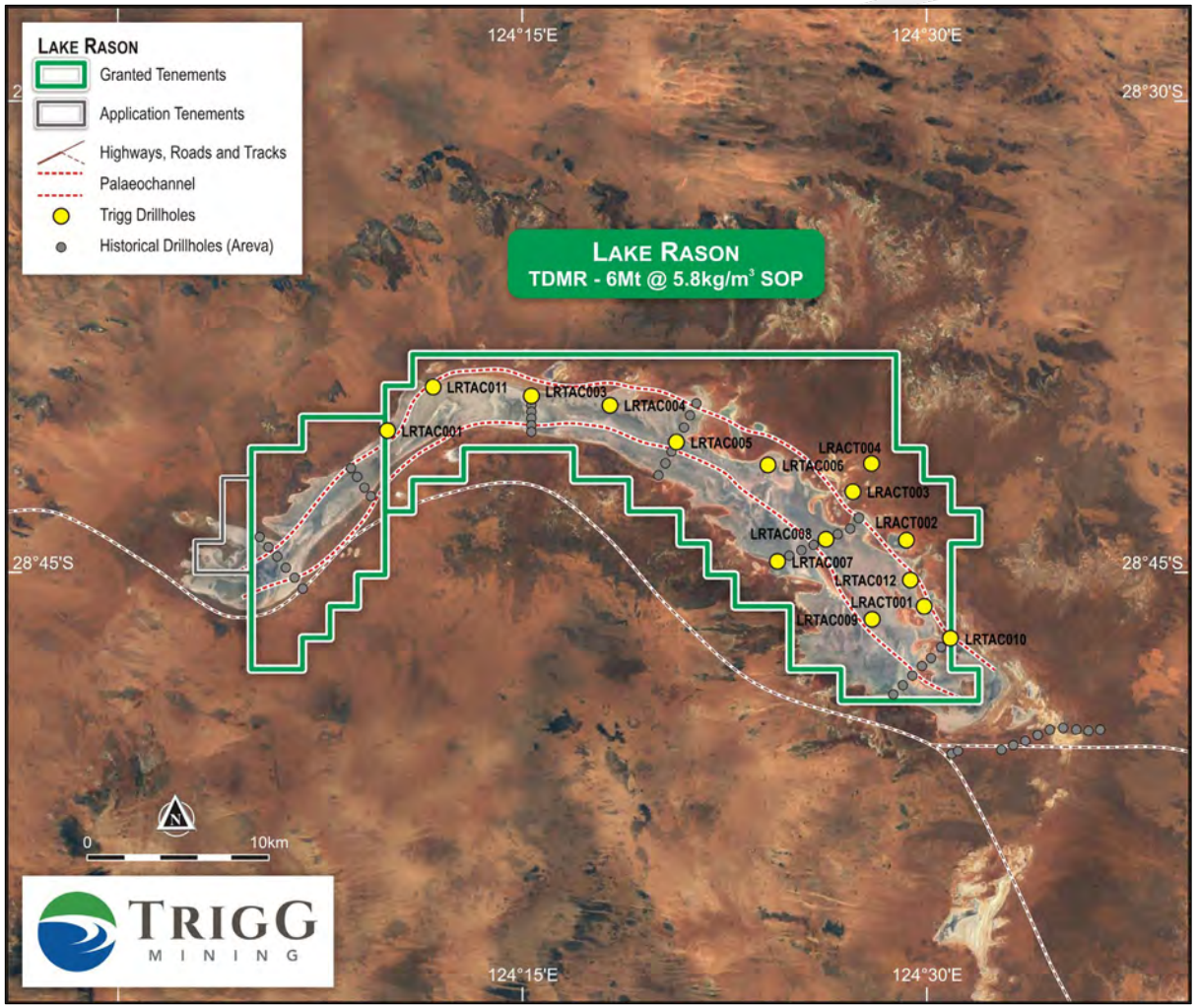




[2]Department of Mines, Industry Regulation and Safety Imagery Web Map Service, accessed 22/04/21

# LAKE RASON SULPHATE OF POTASH PROJECT

## Potential satellite project

- The Lake Rason Project covers 500km² including 195km² of playa lake and 65km of interpreted palaeovalley
- Contains an Inferred Mineral Resource of 6Mt @ 5.1kg/m³ SOP[1]
- Potential to increase volume and grade to the west within the newly granted tenement, with the westernmost hole drilled (LRTAC001) returning results of up to 6.6kg/m³ SOP




[3] *See Competent Person's Statement and Appendices*

# WHY INVEST IN TRIGG MINING?

1. Lake Throssell – A large, high-grade discovery with genuine potential to become a long-life, low cost primary source of SOP
2. Tier-1 location
3. Well supported by infrastructure – roads, rail, airports and gas pipelines
4. Total Mineral Inventory of >20Mt of SOP, with further potential to expand
5. Strong global market and demand fundamentals driven by global mega trends
6. A motivated and experienced team, driven to deliver value for shareholders
7. Company is highly leveraged to growth

TRIGG MINING

**ASX : TMG**

# DISCLOSURES AND DISCLAIMERS

## Cautionary Statement

This presentation (Presentation) is for informational purposes only and is not a prospectus, disclosure document or offer document under the Corporations Act 2001 (Cth) (Corporations Act) or any other law. This Presentation does not constitute, and is not to be construed as, an offer to issue or sell, or a solicitation of an offer or an invitation to subscribe for, buy or sell securities in Trigg Mining Limited ACN 168 269 752 (TMG).

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This Presentation contains 'forward-looking information' that is based on TMG's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to prefeasibility and definitive feasibility studies, TMG's business strategy, plans, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations, mineral reserves and resources, results of exploration and related expenses. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'potential', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this Presentation are cautioned that such statements are only predictions, and that TMG's actual future results or performance may be materially different. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause TMG's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein, including but not limited to the risk factors set out in Section 5 of the prospectus dated 17 September 2020. A copy of the prospectus may be viewed online at www.triggmining.com.au

## Competent Person Statement

For information referring to the exploration results in this document, refer to announcements dated, 02/03/20, 16/02/21, 09/03/21, 22/03/21 and 11/05/21. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of estimates of Mineral Resources, Exploration Target or Ore Reserves that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements; and that the information in the announcement relating to exploration results is based upon, and fairly represents the information and supporting documentation prepared by the named Competent Persons.

TRIGG MINING

Level 1, Office E, 1139 Hay Street
West Perth, WA 6005
(08) 6114 5685

info@triggmining.com.au

**www.triggmining.com.au**

# APPENDIX A – TOTAL MINERAL RESOURCE ESTIMATE

| Stratigraphy | Volume ($10^6$ m$^3$) | Total Porosity (%) | Brine Volume ($10^6$ m$^3$) | Specific Yield (%) | Drainable Brine Volume ($10^6$ m$^3$) | K Grade (mg/L) | K Mass (Mt) | $SO_4$ Grade (mg/L) | $SO_4$ Mass (Mt) | Equivalent SOP Grade ($K_2SO_4$) (kg/m$^3$) | Drainable Brine SOP Mass (Mt) | Total Brine SOP Mass (Mt) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAKE THROSSELL INFERRED MINERAL RESOURCE | | | | | | | | | | | | |
| Lake Surface <6m | 1,007 | 0.40 | 403 | 0.17 | 171 | 4,867 | 0.83 | 22,269 | 3.81 | 10.85 | **1.86** | 4.37 |
| Alluvium | 3,063 | 0.43 | 1,309 | 0.10 | 307 | 4,545 | 1.39 | 22,001 | 6.75 | 10.14 | **3.11** | 13.27 |
| Lacustrine Clay | 8,793 | 0.45 | 3,957 | 0.04 | 352 | 4,596 | 1.62 | 23,138 | 8.14 | 10.25 | **3.61** | 40.56 |
| Palaeochannel Sand | 426 | 0.30 | 127 | 0.23 | 98 | 4,515 | 0.44 | 22,262 | 2.18 | 10.07 | **0.99** | 1.28 |
| Glacial Fluvial | 639 | 0.28 | 179 | 0.18 | 115 | 4,756 | 0.55 | 25,679 | 2.95 | 10.61 | **1.22** | 1.90 |
| Permian Saprolite | 3,382 | 0.40 | 1,353 | 0.10 | 331 | 4,644 | 1.54 | 22,915 | 7.60 | 10.36 | **3.43** | 14.01 |
| **Total** | **17,309** | | **7,327** | | **1,374** | **4,638** | **6.37** | **22,872** | **31.42** | **10.34** | **14.21** | **75.38** |
| LAKE RASON INFERRED MINERAL RESOURCE | | | | | | | | | | | | |
| Surficial | 3,060 | 0.4 | 1220 | 0.1 | 306 | 2,290 | 0.70 | 21,400 | 6.55 | 5.10 | **1.56** | 6.23 |
| Crete | 5,020 | 0.38 | 1910 | 0.07 | 351 | 2,330 | 0.82 | 20,900 | 7.34 | 5.20 | **1.83** | 9.91 |
| Mixed | 230 | 0.3 | 70 | 0.1 | 23 | 2,390 | 0.05 | 21,900 | 0.50 | 5.32 | **0.12** | 0.36 |
| Basal Sand | 1,020 | 0.3 | 310 | 0.21 | 214 | 2,390 | 0.51 | 22,600 | 4.84 | 5.33 | **1.14** | 1.63 |
| Saprolite | 2,800 | 0.2 | 560 | 0.03 | 84 | 2,210 | 0.19 | 21,000 | 1.76 | 4.92 | **0.41** | 2.76 |
| Saprock | 9,310 | 0.1 | 930 | 0.02 | 186 | 2,050 | 0.38 | 21,000 | 3.91 | 4.57 | **0.85** | 4.25 |
| **Total** | **21,400** | | **4,990** | | **1,160** | **2,280** | **2.65** | **21,400** | **24.89** | **5.08** | **5.91** | **25.2** |
| **TOTAL MINERAL RESOURCE** | **38,750** | | **12,334** | | **2,545** | **3,556** | **9.05** | **22,192** | **56.48** | **7.93** | **20.19** | **102.53** |
| LAKE THROSSELL EXPLORATION TARGET (in addition) | | | | | | | | | | | | |
| Lower Estimate | | | | | 288 | 4,261 | 1.2 | | | 9.5 | **2.6** | |
| Upper Estimate | | | | | 945 | 4,616 | 4.2 | | | 10.3 | **9.4** | |

**Note:** Errors may be present due to rounding, approximately 1.2Mt of Drainable SOP Mass is present in Exploration License Application E38/3437. Approximately 2.86Mt of the Drainable SOP Mass is present in Exploration License Applications E38/3544, E38/3483, E38/3458, and E38/3537. Total porosity and total brine SOP mass is provided to compare the total SOP tonnes with the drainable Resources. As can be seen, the total brine volume of 102.53Mt is significantly higher than reported drainable brine volume of 20.19Mt. The drainable brine volume represents the amount of SOP that can be abstracted from the deposit under normal pumping conditions. For economic production, the drainable brine volume is the most important volume because only a proportion of the total brine present can be typically abstracted from the deposit. The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration in these areas to estimate a Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource.

# APPENDIX B – SOP EVAPORATION PROCESS

PUMPING FROM TRENCHES AND BORES

SOLAR EVAPORATION

HARVESTING

PURIFICATION

SOP FERTILISER