Tartana Resources Limited

- Focus on establishing Copper and Zinc Resources
- Early cash flow potential
- Very significant copper targets

ASX Code: TNA

Proposed new IPO at 20 cents per share – Raising up to \$6m

Offer period closes: 26th July 2019 if not earlier

Planned listing date: 13th August 2019



Notice to potential investors

Tartana Resources Limited ACN 126 905 726 (**Tartana** or the **Company**) is currently conducting an initial public offering of ordinary shares at 20 cents to raise a minimum of \$4 million and a maximum of \$6 million to list on the Australian Securities Exchange (**Offer**). A prospectus for the Offer dated 24 June 2019 (**Prospectus**) is available at www.tartanaresources.com.au/investor-centre. Anyone who wants to acquire shares under the Offer must read the Prospectus and must complete a paper application form accompanying the Prospectus or the electronic application form available at www.tartanaresources.com.au/investor-centre. A person should consider the Prospectus in its entirety before deciding whether to apply for any shares.

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Executive Summary

- Tartana is raising up to \$6 million as part of an IPO for listing on the ASX.
- It has two key project areas the **Tartana Copper/Zinc project** in north Queensland and the **Zeehan Zinc Slag Stockpiles** in western Tasmania. These projects offer short and medium term potential for cash flow generation and longer term exploration appeal.
- Short term cash generating opportunities:
 - Copper sulphate sales from restarting the existing heap leach / solvent extraction plant on site
 - Selling Zeehan Zinc Slag shipments to third parties. The stockpiles contain an indicated resource of 469,000 @ 13.3% Zn, 1.7%
 Pb & 53 g/t Ag and a trial shipment was sent to Nyrstar's Port Pirie smelter in 2018.
- Medium term targets capable of early production:
 - The Queen Grade Zinc Open Pit Project has a conceptual open pit exploration target of 0.3 3.0 Mt @ 4% 10% Zn for 11,000 to 290,00 t of contained zinc* Drilling to test the target and potentially establish a resource will be a priority after listing.
 - Commence scoping study on processing options for Zeehan slag which can extract greater value than direct sales. This
 includes smelting (fuming) and leaching options
- Large scale copper targets:
 - Porphyry copper mineralisation occurs below the existing open pit at Tartana and in the Valentino area. A conceptual open pit exploration target is estimated at 11 47 Mt at 0.6% to 0.8% copper for 64,000 t to 376,000 t of contained copper.* This excludes potential by-product credits and the large IP anomaly plunging to the north east of the open pit and will also be a priority drilling target.
- We have a committed and experienced Board and Management team.

^{*}The potential quantity and grade is conceptual in nature, and 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. See Tartana Website for Tables 1 & 2, JORC 2012. Competent Person: SRK – Dr Stuart Munroe. Zeehan Slag – Geoff Reed.

Tartana projects within the Tartana Mining Leases

Tartana Copper/Zinc Project

(100%, Chillagoe, North Qld)

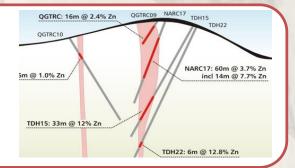
4 Mining Leases,

Heap Leach / Solvent Extraction / Crystallisation plant on site

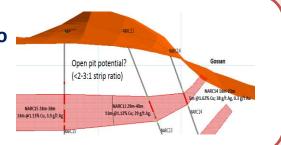
Identifying copper oxide mineralisation and restarting the Heap Leach / Solvent Extraction / Crystallisation Plant



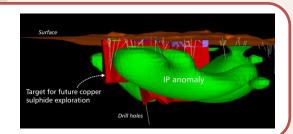
Drilling the Queen Grade Zinc Project to establish a resource for potential open pit development



Drilling the flat lying Valentino Copper Project to establish a resource for open pit development



Drilling the deeper copper porphyry mineralisation



Zeehan Zinc Slag Project

(100%, Western Tasmania)

Slag stockpiles containing zinc-rich slag from a historic smelter

Slag sales as well as investigating processing options



Exploration Projects

Mt Hess Porphyry Copper Project

(100%, Central Queensland)

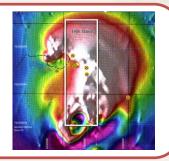
Exploration with identified copper/gold mineralisation

Amber Creek Sn/W/Mo Project

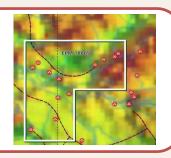
(100%, North Queensland)

Exploration with identified tin/tungsten/molybdenum mineralisation

Previous exploration has identified surface copper and gold mineralisation (e.g. 50 m @ 2.2% Cu & 0.3 g/t Au in continuous rock chip sampling and other rock chips up to 10.6 g/t Au



Mineralised (tin, tungsten and molybdenum) structures have been identified and require follow-up



Experienced Board/Management team covering relevant disciplines



Dr Steve Bartrop - Executive Chairman

Steve's professional experience spans more than 30 years covering periods in both the mining industry and financial sector. With a geology background, Steve has worked in exploration, feasibility and evaluation studies and mining in a range of commodities and in different parts of the world. In the financial sector, Steve has been involved in research, corporate transactions and IPOs spanning a period of more than 20 years, including senior roles at JPMorgan, Bankers Trust and Macquarie Equities.



Peter Rohner - Executive Director

Peter has over 30 years experience in the mining industry and has been involved in mineral processing technology development including development of the Jameson flotation cell, IsaMill fine grinding and more recently had significant involvement in further development of Glencore's Albion Process (fine grind oxidative leach) technology. Peter is also currently Technical Director of the Core Group of companies which provides metallurgical processing solutions to its global clients.



Bruce Hills - Executive Director

Bruce is an accountant and is currently an Executive Director of Breakaway Investment Group Pty Ltd which operates the Breakaway Private Equity Emerging Resources Fund. Bruce is a Director of a number of unlisted companies in the mining and financial services sectors including The Risk Board and Stibium Australia. Bruce has 35 years' experience in the financial sector including 20 years in the banking industry primarily in the areas of strategy, finance and risk.



Craig Nettelbeck - Director

Craig worked in the international sports and entertainment industry for 20 years, based in London he successfully forged global relationships enabling him to negotiate numerous complex transactions before moving into the corporate advisory sector specialising in the agriculture, energy and mining sectors. Craig has been instrumental in completing numerous deals and facilitating the capital raising for a number of junior miners. Craig is currently the Managing Director of emerging polymetallic exploration company Dover Castle Metals.



Rob Waring - Director

Robert Waring has over 40 years experience in financial accounting and company secretarial roles, principally in the resources industry. He is involved as Company Secretary of a number of public companies listed on the Australian Securities Exchange. Robert has specialist skills in the preparation of company prospectuses, due diligence work and financial assessment of projects and companies. He has a keen interest in the equity markets. Robert is a founding Executive Director of Oakhill Hamilton Pty Ltd.



Veronique Morgan Smith -Co-company Secretary and In-House Legal Counsel

Veronique Morgan-Smith has more than 18 years experience as a corporate transactions lawyer, both in major international law firms and in-house, as an Australian solicitor and a French avocat. Her broad practice includes domestic and cross-border transactions and joint-ventures in various legal systems. Veronique uses her varied legal expertise to assist the Board in corporate governance and compliance matters, capital raisings and project acquisition.



Capital Structure

Capital Structure/Raising	\$4m	\$5 m 55, <mark>668,071</mark>		
Shares currently on issue	55,668,071			
Further shares to be issued to SciDev	2,500,000 2,500,0			
Total shares on issue prior to IPO raising	58,168,071	58,168,071		
Shares to be issued pursuant to new IPO	20,000,000	30,000,000		
Total shares on issue after IPO	78,168,071	88,168,071		
Market capitalisaton at 20 cents per share	15,633,614	17,633,614		
Enterprise Value at 20 cents	11,633,614	11,633,614		

Options Issued

Directors, Management - all 40 cents exercise price 13,500,000

Shareholders 163

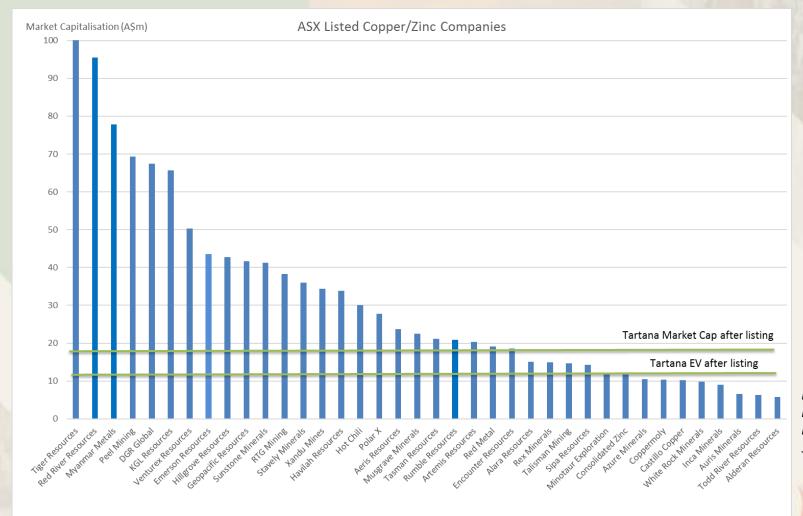
On a \$6m raising:

Management: ~14% ownership

Shares escrowed: ~32%



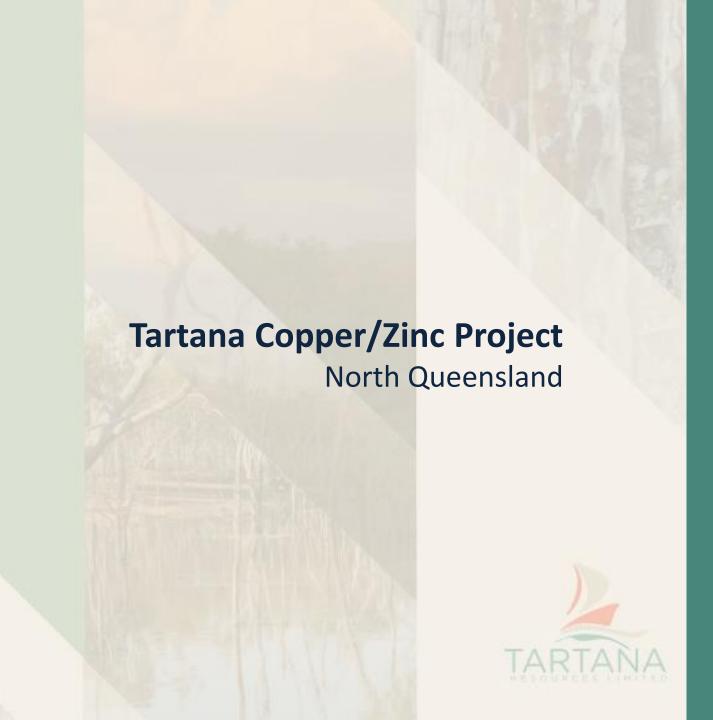
Comparative valuations....



From Breakaway Research Market caps as at 3 July 2019

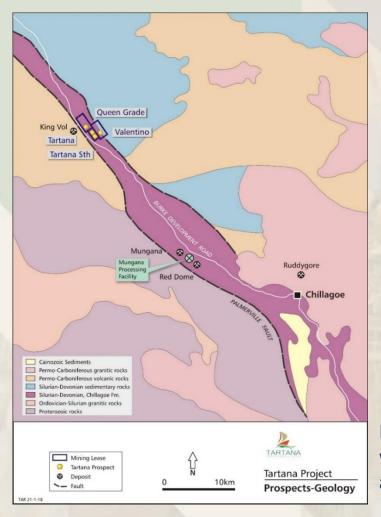
At a 20 cent share price, Tartana Resources will be priced as an exploration company despite having the potential to generate ongoing cash flow from its existing copper sulphate plant and other projects.



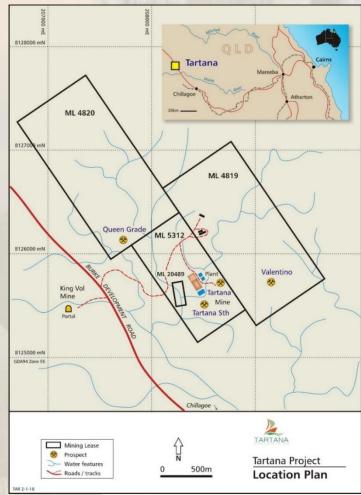


Flagship project....

....separate copper and zinc projects.



4 Mining Leases located approx.
40 km northwest of Chillagoe,
North
Queensland



Prospective Chillagoe Formation with multiple porphyry copper and zinc skarn orebodies.



Tartana Copper/Zinc Project

There are 4 separate projects within the Mining Leases...

- 1. A potential restart of the **Heap Leach / Solvent Extraction / Crystallisation Plant** on site to process copper already in the ponds and to prove up additional oxide copper resources.
- 2. Step out drilling on the **Queen Grade Zinc Project** to establish a zinc resource for potential development as an open pit mine and later, underground mine.
- 3. Drill the **Copper Sulphide Mineralisation** below the existing open pit and potentially deeper and to the north as defined by a large geophysical IP anomaly.
- 4. Drill the shallow parts of the **Valentino Project** which represents a zone up to 20 m wide zone containing higher copper, gold, silver and cobalt grades.

Restarting the copper sulphate production and resource drilling are priorities after listing....



Tartana Oxide Copper Project

- Heap Leach / Solvent Extraction / Crystallisation plant on site and which previously produced high quality copper sulphate which was sold into the domestic market.
- Copper was previously sourced by the mining of copper oxide ore in a shallow open pit (2004 2013; 1.2 Mt @ 0.8% Cu)
- Early restart opportunity to generate cash flow with copper sulphate sales.



Heap leach pads with plant and accommodation camp in the background (above). Copper sulphate in feeder and liquor tanks (right)



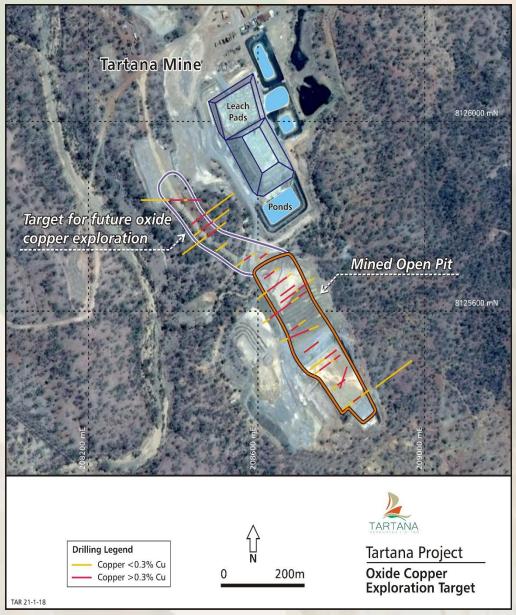
Plant Restart

- Tartana commissioned consultants, Core Resources, to investigate the cost of restarting the Solvent Extraction / Crystallisation plant to extract copper remaining within the existing ponds.
- Initial analysis indicates low restart cost at \$226,000 and with a margin of \$175,000 from simply recovering existing copper remaining in the ponds.
- Tartana plans to also extract remaining copper in the heaps and investigate potential oxide and supergene mineralisation in the floor of the open pit and to the north of the existing pit. Other copper oxide ore sources in the region and copper-bearing materials for processing are available.
- The copper sulphate is priced at ~25% of the copper price plus a premium which has been typically up to A\$500/t. Inmatrade* reports prices at US\$1,800-2,200/t



ltem U		Value			
Fixed:					
Engineering	(AUD)	\$ 20,000			
Equip. Rehabilitation & First Fills	(AUD)	\$ 75,000			
Recommissioning	(AUD)	\$ 14,000			
Total Fixed	(AUD)	\$ 109,000			
Variable:					
Pond Liquor Processing	(AUD)	\$ 117,638			
	(AUD/t Cu)	\$ 2,483			
Total Variable	(AUD)	\$ 117,638			
Total Cost		\$ 226,638			
MARGIN	(AUD)	\$ 175,990			

^{*}https://inmatrade.com/en/prices



Copper Oxide Mineralisation Potential

Historic drilling indicates that shallow oxide copper mineralisation extends for 600 metres north of the open pit.

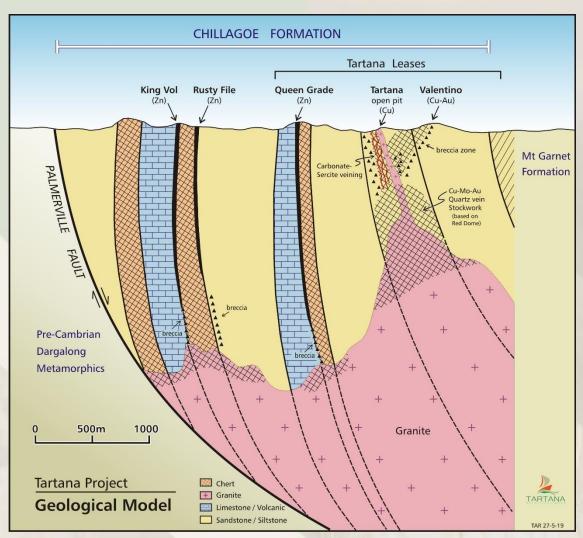
Drillhole	Interval (m)	Cu grade (%
TRC47	36.0	0.82
TRC48	26.8	1.06
TRC51	39.1	0.65
TRC53	38.1	0.75

Supergene copper mineralisation is also in the base of the pit and potentially suitable for processing.



Note. Intersections may not meet JORC 2012 standard. JORC Section 1 & 2 tables available on the website at www.tartanaresources.com.au/investor and in the prospectus.

Our geological model ...

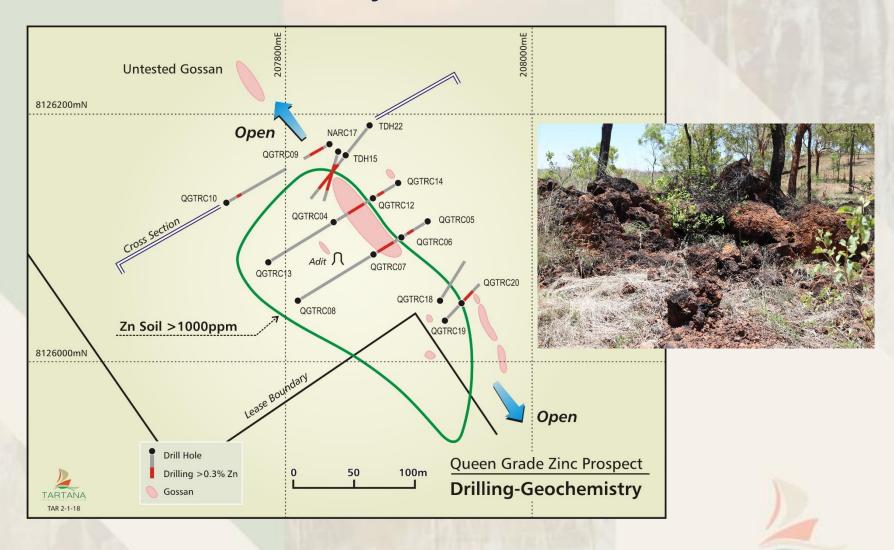


The Tartana Mining Leases include several key projects which are:

- The Queen Grade zinc skarn mineralisation which is similar to the neighbouring King Vol mine.
- Tartana porphyry copper mineralisation. At surface the copper mineralisation is oxidized and has been mined in the open pit. However the mineralisation extends well below the pit and to the north.
- The Valentino copper mineralisation which appears to tap deeper into the copper porphyry system

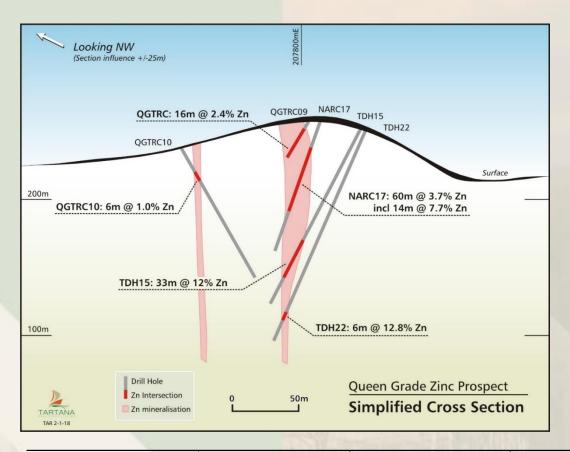


Queen Grade Zinc Project



Queen Grade zinc prospect is expressed at the surface by iron-rich gossans and anomalous soil geochemistry.

Queen Grade Zinc Project



Our conceptual open pit exploration target ranges between 11,000 t to 290,000 t of contained zinc (see table below). Further drilling is required to define a resource from the historical drilling.

We are neighbours to the King Vol zinc mine which has been developed by Auctus Resources Pty Limited a wholly owned subsidiary of Auctus Minerals Pty Ltd, a private Australian company backed by Denham Capital, a US based private equity firm. This mine along with the separate development of the Mungana mine and Mungana concentrator, represents a significant investment by the US private equity firm in our region.

Both Auctus and Tartana remain in discussions on various opportunities which may benefit all stakeholders.

	Tonnage		Zinc G	rade	Contained Zinc		
Queen Grade Zinc Open Pit	Low (Mt)	High (Mt)	Low	High	Low (t)	High (t)	
Exploration Target*	0.3	3.0	4%	10%	11,000	290,000	

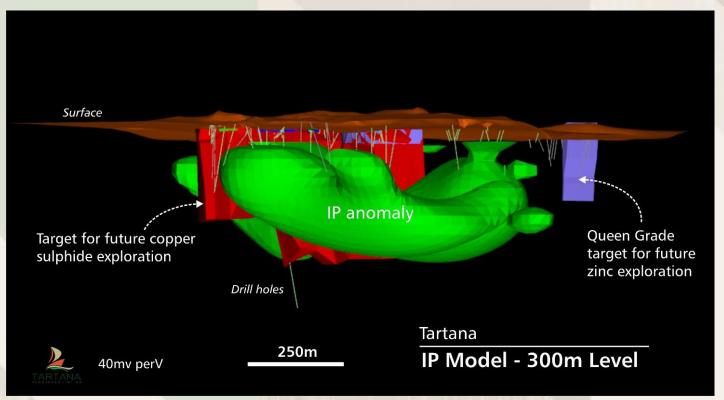
^{*}The potential quantity and grade is conceptual in nature, and there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource. See website for Tables 1 & 2 JORC 2012. Comp Person: SRK Dr Stuart Munroe.





Deeper Tartana Copper Sulphide exploration...

... A major induced polarisation (IP) anomaly (green shape) may indicate extensions to the copper mineralisation below and to the north of the open pit.

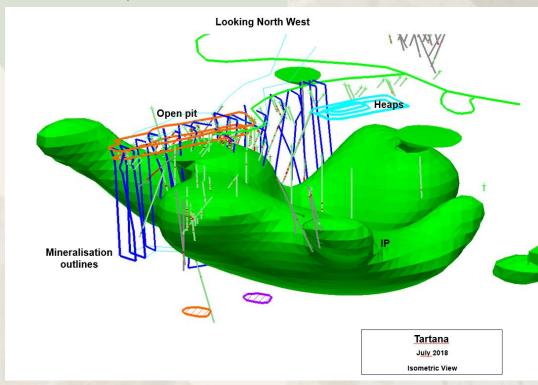


This green IP anomaly represents a significant copper porphyry target which extends below the open pit and to the north and east. In the red zone, historical drilling has defined copper mineralisation which appears to be increasing with depth. However, outside the red zone, drilling has generally been too shallow to intersect the IP anomaly.

Tartana's Significant Copper Sulphide Exploration Targets.....

Copper Sulphide Open Pit	Tonnage		Copper Grade		Contained Copper	
Exploration Targets*	Low (Mt)	High (Mt)	Low	High	Low (t)	High (t)
Below existing open pit	7.3	20	0.60%	0.80%	44,000	161,000
Valentino Prospect	3.9	27	0.60%	0.80%	20,000	215,000
Total	11.2	47	0.60%	0.80%	64,000	376,000

^{*}The potential quantity and grade is conceptual in nature, and 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. See website for Tables 1 & 2 JORC 2012. Comp Person: SRK Dr Stuart Munroe.

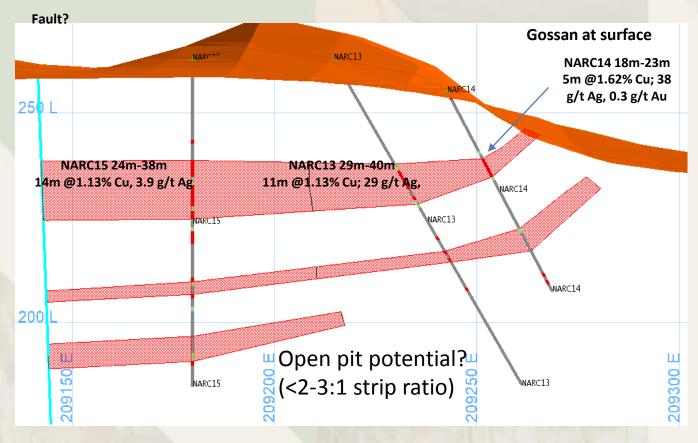


The diagram outlines the wireframes of mineralisation below the open pit and the IP anomaly.

The Exploration target quoted above excludes the deeper portion of the IP anomaly to the north of the open pit.

Valentino Prospect

– in some areas this may represent a flat lying zone possibly folded or faulted from the main open pit mineralisation. Note the higher copper grades in a zone (up to 14 m thick @ 1.13 % Cu)



Historically there has been minimal assaying for cobalt but where there has been assaying, there are elevated grades up to 0.12% Co in association with the higher copper grades and 50 to 400 ppm cobalt grades are common.

We will assay some of the historical drilling for cobalt, gold and silver grades.



Accommodation On-site

- 15 person accommodation camp
- Dining, recreational & office facilities
- Caretaker currently on site
- Large freshwater dam to support processing operations







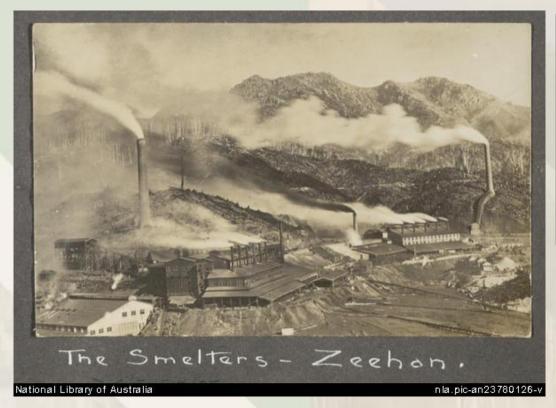






Zeehan Zinc Smelter Slag Project

The Zeehan smelter operated intermittently from 1898 to 1948 recovering lead, silver and copper. The smelting operations left a zinc-rich slag stockpile on site.



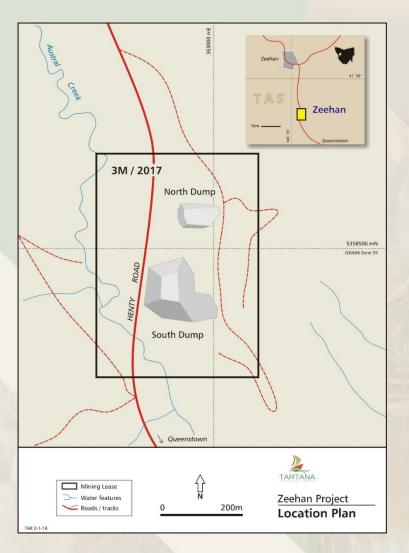


Today there is an historic plaque commemorating the smelter opposite the site with the two slag stockpiles in the distance.

Picture is incorrectly labelled Zeehan – this is actually Mt Lyell!



Zeehan Zinc Smelter Slag Project



The project is located 2.5 km south of the township of Zeehan in western Tasmania.

Two stockpiles remain on a granted mining lease as well as some relics of the smelting activities e.g. old foundations.

Zeehan Zinc Slag Indicated Mineral Resource*	Tonnes	Grade	Contained Metal
Slag in stockpiles	469,000		
Zinc Grade		13.3%	62,377 t
Lead Grade		1.7%	7,973 t
Silver Grade (g/t)		53.0	799,171 _{OZ}

^{*} JORC 2012 Tables 1 & 2 are located in Appendix 2. Competent Person: BMS Geoff Reed



Zeehan Zinc Smelter Slag Project

Options to realise value for Tartana include:

- ☐ Third Party Sales e.g. to Nyrstar for processing in its Port Pirie Smelter
- ☐ Fuming the slag to extract the zinc and other metals
- ☐ Leaching the slag to extract the zinc and other metals

Tartana will conduct a low cost study to establish a preferential processing route after listing..



Trial Shipment to Nyrstar Extraction of a trial 5,000 tonne sample for Nyrstar's Port Pirie operation has been completed.



Two year budget – drilling is a priority...

Project/Item	Details		Minimum Raising Budget		Maximum Raising Budget		%	
Tartana Project	100							
Copper Sulphate Plant Restart	Restarting the plant to extract existing copper in ponds and heaps, first reagent supplies	\$	400,000		\$	400,000		
Tartana Oxide Project	Drill copper oxide mineralisation north of the existing open pit and supergene mineralisation in the base of the pit	\$	418,000		\$	660,000		
Queen Grade Zinc Project	Drilling to establish a coherent geological model and resource, open pit optimisation, metallurgical studies	\$	550,000		\$	880,000		
Tartana Porphyry Copper Target	Drill deeper parts of the copper mineralisation to follow the defined zones and also test for by-product metals e.g, silver, cobalt, gold, that may enhance project economics	\$	330,000		\$	950,000		
Valentino Project	Step out drilling of the Valentino copper, silver, cobalt mineralised areas	\$	150,000		\$	585,000		
Site Management	Site management & environmental monitoring, Amending Environmental Authorities, Financial Assurance adjustment	\$	350,000		\$	350,000		
Total - Tartana Project	Part de la	\$2	2,198,000	63%	\$3,	825,000	71%	
Zeehan Zinc Slag Project								
Zinc slag processing	Pyrometallurgical fuming, leaching and geological studies	\$	225,000		\$	250,000		
Third party sales	Marketing	\$	10,000		\$	65,000		
Rehabilitation	Site rehabilitation studies, stamp duty on purchase	\$	90,000		\$	110,000		
Total - Zeehan Project		\$	325,000	9%	\$	425,000	8%	
Mt Hess and Amber Creek exploration projects, New Project Generation	Mapping, costeaning and sampling on exploration projects	\$	75,000	2%	\$	100,000	2%	
Administration/Accounting/External Co	osts	\$	835,000	24%	\$	950,000	18%	
Ongoing Working Capital/Miscellanous,	/Contingency	\$	79,768	2%	\$	90,616	2%	
Total Expenditure		Ś:	3,512,768	100%	\$5.	390,616	100%	

The budget is designed to potentially deliver short term cash flow while at the same time test the more significant exploration targets.

Drilling is anticipated to commence shortly after the ASX listing and maintain a healthy news flow.

More than 70% to 80% of funds raised will directed to projects with drilling a major component.



Copper and Zinc Prices are strong in A\$ terms...





Copper prices are increasing and attractive in AUD terms. Many commodity analysts view that copper is the safe way to play the Electric Vehicle revolution. This addition demand is likely to be compounded by decreasing mine supply from the world's major copper mines. A market deficit is forecast from 2019 to 2030 by Rio Tinto.

Zinc prices have recently drifted sideways but remains robust in A\$ terms. Zinc is used in galvanising steel and is leveraged to infrastructure and construction spending – particularly in response to Chinese economic stimulus.

Summary

- Tartana will have a **Market Capitalisation of \$17.6m** and an **Enterprise Value of \$11.6m** at listing and will represent value in comparison to many other copper/zinc companies.
- It provides key exposure to both copper and zinc metals which are expected to perform well based on the Electric Vehicle revolution, white goods, infrastructure and construction spending and limited new mine supply.
- The Company has the potential to generate a sustainable cash flow from restarting the existing copper plant, advancing the Queen grade zinc project and Zeehan slag sales.

Material Exploration Targets

- Queen Grade Zinc Project Immediate drill out required to convert the exploration target to as resource, with potential for open pit development and treatment at regional concentrators.
- Valentino Copper Project Immediate drill out to convert exploration target to a resource, with scope to be shallow and flat lying
- **Deeper Copper Sulphide Project** deeper drilling to the determine orebody size and whether the copper, gold and silver grades increase with depth.

Potential News Flow after Listing

- Drilling on the projects and the release of exciting exploration results
- Quantifying both copper and zinc resources
- Restart of Copper Sulphate production generating ongoing cash flow
- Potential commercialisation of Queen Grade Zinc Project
- Quantification of Zeehan Slag Processing
- Deep copper exploration results

Our Team

Committed and experienced



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