



**Kalamazoo  
Resources Ltd**  
ACN: 150 026 850  
ASX: KZR

**Head Office**  
Unit 6  
328 Reserve Road  
Cheltenham 3192  
Victoria

Suite 7  
8 Clive Street  
West Perth 6005  
Western Australia

**Phone** 1300 782 988

**Fax** +61 8 9481 8488

admin@kzr.com.au

kzr.com.au

## ASX Announcement

30<sup>th</sup> October 2019

## SEPTEMBER 2019 QUARTERLY ACTIVITIES REPORT

### VICTORIAN GOLD PROJECTS

- Wattle Gully South (EL6752) granted in July 2019, further increasing Kalamazoo's land tenure at the Castlemaine Gold Project
- Detailed Induced Polarisation (IP) and ground magnetic surveys commenced across the top ten highest ranked prospects within EL6679 at the Castlemaine Gold Project
- Regulatory approvals process commenced for the proposed drilling program
- Successful drilling tender process undertaken to evaluate three tenders for a proposed two stage 10,000m drilling program
- Collaborative research project with CSIRO "Mapping Geochemical Gradients at the Wattle Gully Gold Deposit" advanced, completion anticipated November 2019
- South Muckleford EL6959 which covers ~93km<sup>2</sup> was granted during the quarter
- Exploration licence application (EL7021 "West Muckleford") covering 68km<sup>2</sup> for the South Muckleford Gold Project was submitted and is awaiting grant

### PILBARA GOLD PROJECTS

- Kalamazoo developed an exploration plan comprising soil and rock chip sampling programs, mapping and acquisition of various geophysical and spectral imagery at the Marble Bar Gold Project, to identify targets for the upcoming field season
- Soil geochemistry program was completed at the Marble Bar Gold Project, which identified a high priority gold anomaly reported post quarter end

### CORPORATE

- \$1.2m raised via a strongly supported placement to corporate, institutional and sophisticated investors – funds will be used to advance exploration program at the Victorian Gold Projects
- Luke Reinehr appointed as Chief Executive Officer of the Company on 1 July 2019, after fulfilling the position of Interim Chief Executive Officer since July 2018

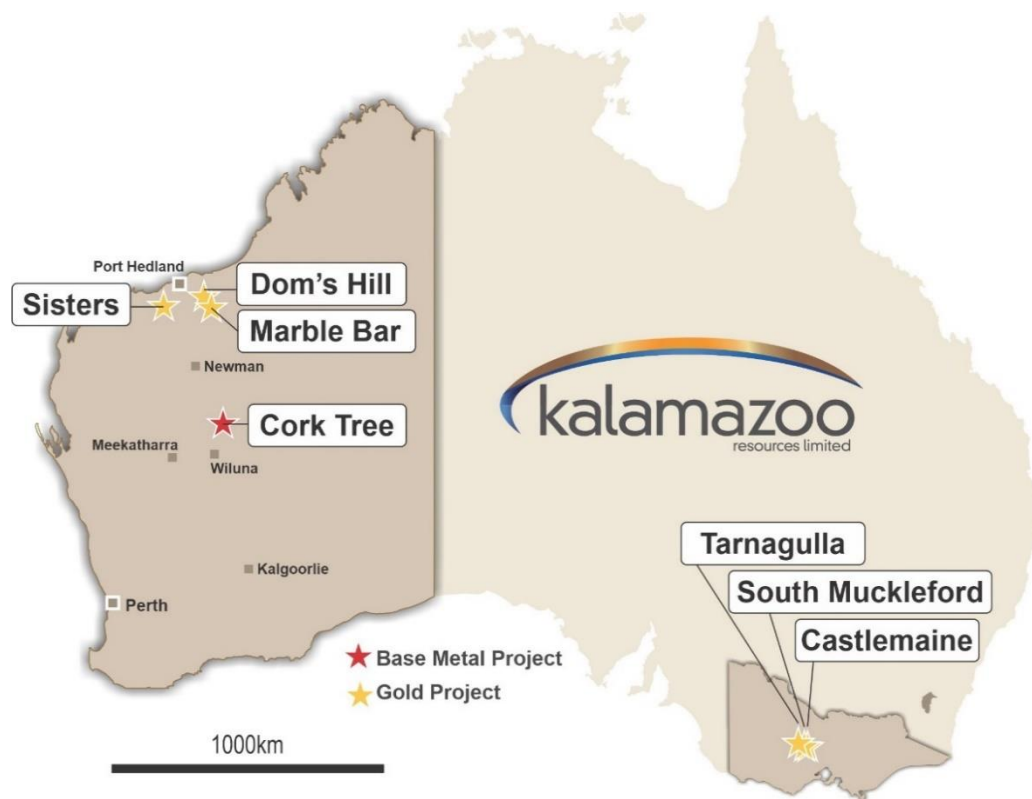


Figure 1: Kalamazoo Project Locations

## VICTORIAN GOLD PROJECTS

During the September quarter Kalamazoo Resources Limited (“Kalamazoo” or the “Company”) progressed its Victorian gold exploration strategy based upon a high-grade target deposit model.

### Castlemaine Gold Project (EL6679 & EL6752)

During the quarter, Kalamazoo identified a large number of high priority gold exploration prospects within its Victorian Exploration Licence EL6679 for follow-up investigation. These prospects were defined from a combination of features including the presence of prospective fault/fold structures, gold mineralised reefs, historical workings, low exploration maturity and historical drill hole intersections. These prospects have received only limited, shallow historical drilling and have not seen any systematic modern geophysical exploration techniques. These prospects range in size up to 2km<sup>2</sup> and are located within the Castlemaine Diggings National Heritage Park and a commercial Pine Plantation.

Kalamazoo subsequently engaged Planetary Geophysics to conduct detailed Induced Polarisation (IP) and ground magnetic surveys of the top 10 highest ranked prospects which commenced in July 2019. These geophysical surveys (completed in October 2019) involved approximately 36.9 and 448 line kms of IP and ground magnetic survey lines, respectively. These geophysical surveys successfully achieved their aim of mapping the sub-surface geology and identifying potentially gold mineralised fault/fold structures for follow-up diamond drill testing.

Of note there have been no ground geophysical surveys conducted within the Castlemaine Gold Project since the 1960’s and the area is only covered by broad, regional-scale aeromagnetic and ground gravity data. The application of modern ground geophysical survey techniques to high ranking prospects is a key feature of Kalamazoo’s exploration strategy. This is keeping with the Company’s philosophy of conducting exploration in a “smarter”, low impact, reconnaissance-style methodology that minimises any disturbance to the environment and the local Community. These activities essentially reduce the amount of ground disturbance and exploration drilling required to effectively explore a prospective area.

During the quarter Kalamazoo advanced its collaborative research project with CSIRO “Mapping Geochemical Gradients at the Wattle Gully Gold Deposit” (ASX: KZR 19 March 2019). The aim of the study is to apply modern, high-tech, core logging and laboratory techniques to historical diamond drill holes to better characterise and understand primary gold mineralisation within the Castlemaine goldfield. The study is utilising some of the approximately 80,000m of historical diamond drill core samples held by Kalamazoo. This research project is expected to be completed in November 2019.

During the quarter Kalamazoo evaluated three reputable drilling contractors for a proposed two stage 10,000m diamond drilling program to take place in the latter parts of 2019 and early 2020. This tender process has now been completed and Deepcore Drilling was awarded the contract in October 2019. Deepcore is a highly qualified and experienced drilling services operator in Central Victoria and within the Castlemaine project area itself.

Kalamazoo is progressing preparations to commence a proposed Stage 1, 10 x diamond drill hole (~4,000m) programme within the privately-owned Pine Plantation in the northern part of EL6679. The drilling program is expected to commence in November 2019 with an expected completion date of February 2020. The proposed drilling in the Pine Plantation has been deemed as Low Impact Exploration" as per Schedule 4a of the Mineral Resources (Sustainable Development) Act 1990 ('MRSDA'). Drill sites will be managed in accordance with current published guidelines. This includes drill-hole decommissioning and site rehabilitation.

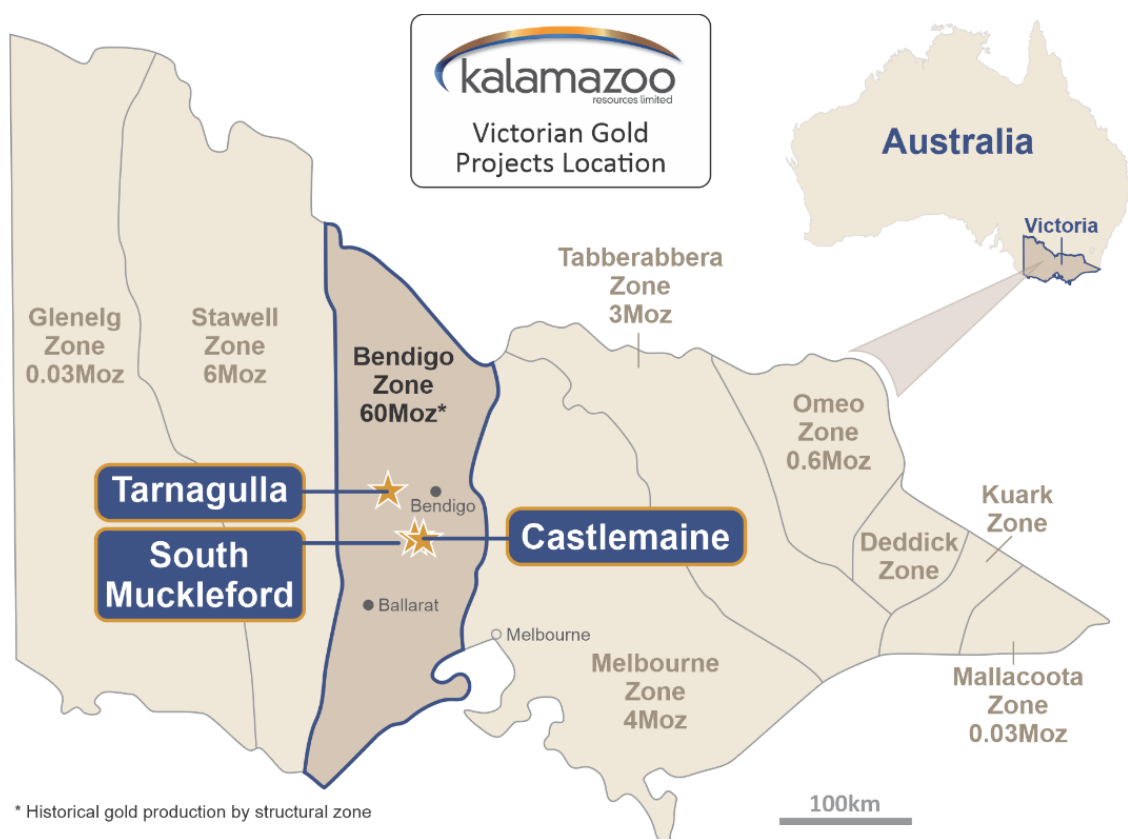


Figure 2: Victorian Gold Project's Location

## South Muckleford Gold Project (EL6959 & ELA7021)

Exploration Licence EL6959 (~93km<sup>2</sup>), was granted in July 2019. A second exploration licence EL7021 (~68km<sup>2</sup>) was applied for during the quarter and once granted the two tenements collectively will cover 161km<sup>2</sup>. Located in a highly prospective gold field (Maldon Goldfield) with proven endowment near a regional fault (Muckleford Fault) this is an exciting new project to add to Kalamazoo's growing portfolio of gold projects in Victoria.

The South Muckleford Project covers the highly prospective regional Muckleford Fault and adjacent historical workings to the west as well as the southern strike extent of the Union Hill Gold Mine (Figure 3). The project contains numerous historical gold workings coincident with prospective 2<sup>nd</sup> and 3<sup>rd</sup> order faults associated with the regional Muckleford Fault. The historical gold workings reveal linear trends indicative of lines of lodes/reefs similar to those that are found in the nearby Castlemaine Gold Project.

The Maldon goldfield is the 7<sup>th</sup> largest Victorian goldfield with historical production of >1,975,000oz (>56 t) and 317,000oz (9t) of primary and alluvial gold, respectively<sup>1</sup>. This goldfield is of a similar setting, age, Ordovician host rocks and structurally controlled mineralisation style as other Bendigo Zone (Central Victoria) gold deposits.

Exploration activities have recently commenced, starting with the compilation and review of the substantial historical open file exploration and mine production records to assist with initial target area selection for follow-up field investigations.

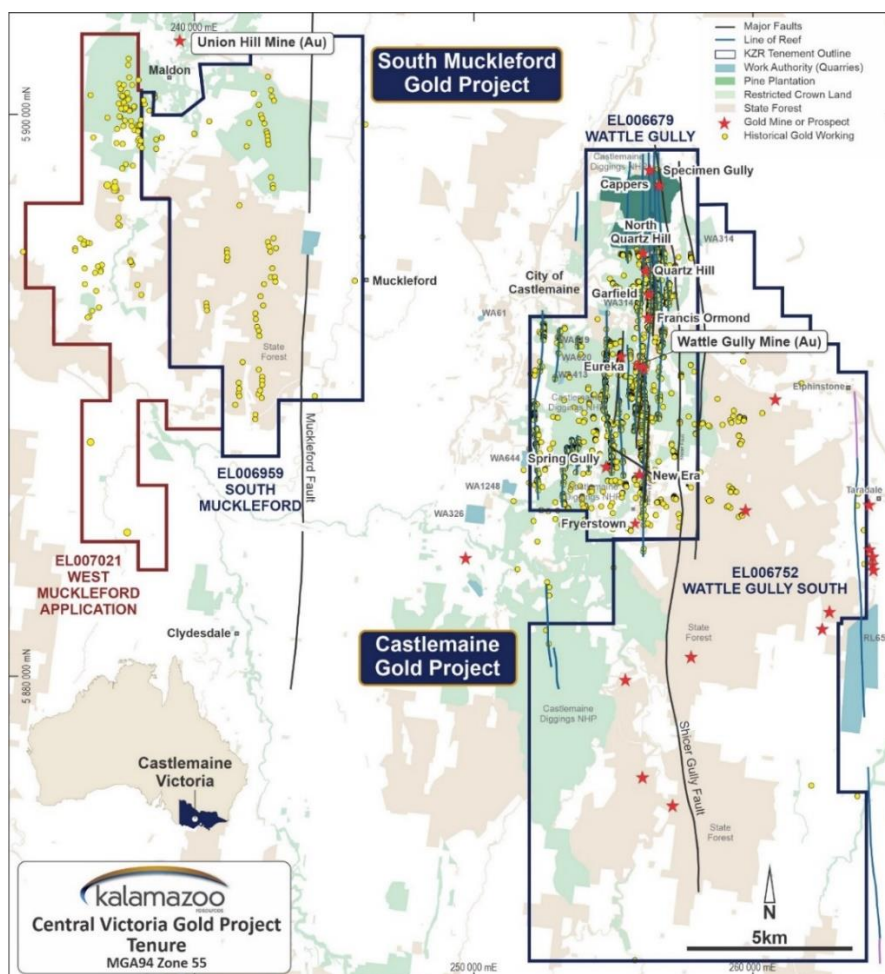


Figure 3: Castlemaine and South Muckleford Gold Project Locations

<sup>1</sup> Phillips, G.N., 2010 Victorian Gold Province, Australia: a contemporary exploration Guide. GeoScience Victoria Special Publication

## Tarnagulla Gold Project (EL6780)

Initial exploration activities were undertaken during the quarter which included desktop studies and historical data compilations with plans for field reconnaissance and validation exercises to commence in the December 2019 quarter.

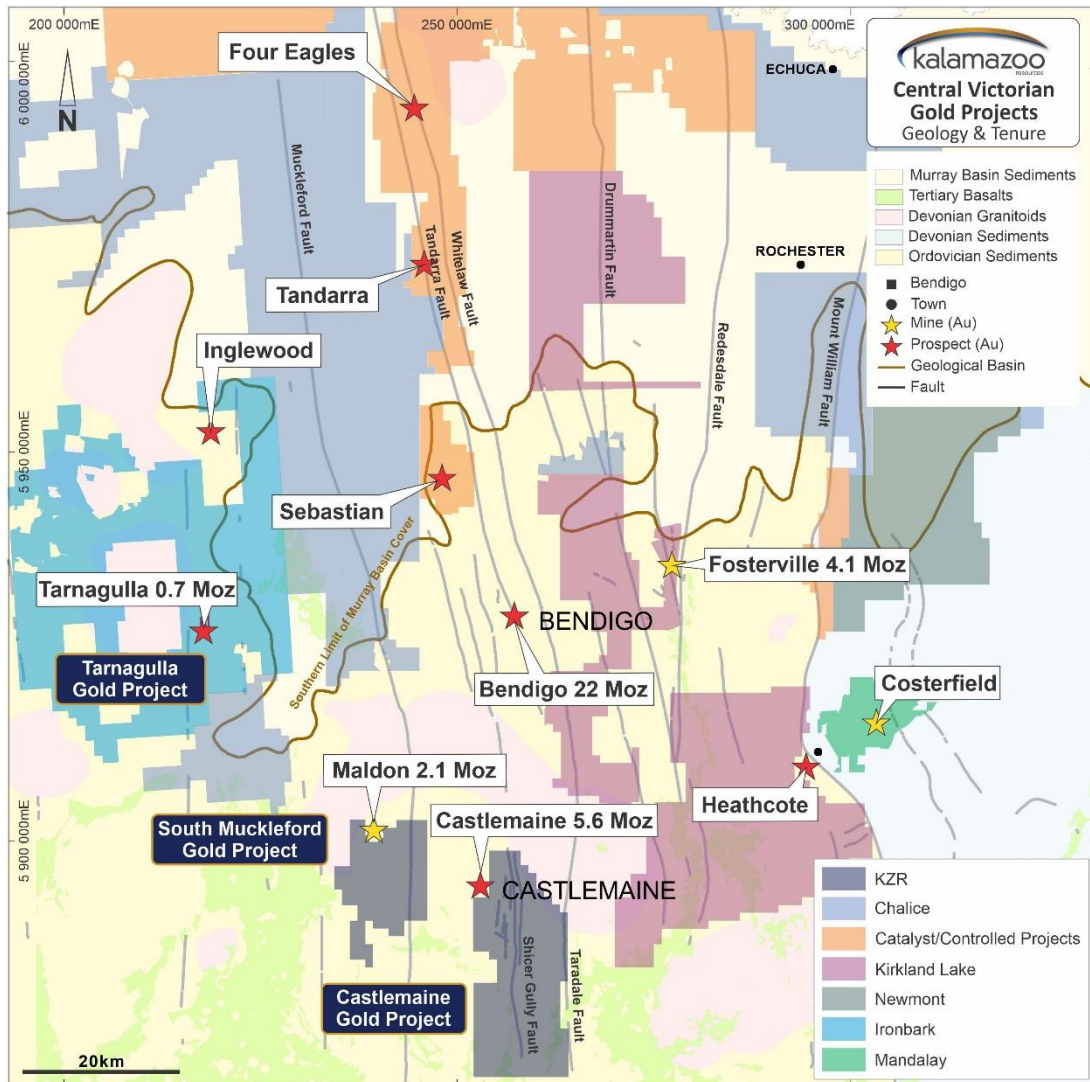


Figure 4: Regional Geology, Structures, Gold Projects and Wattle Gully Project Tenements

## PILBARA, WESTERN AUSTRALIA GOLD PROJECTS

The focus of work conducted was on planning for further soil and rock chip sampling programs, mapping and acquisition of various geophysical and spectral imagery to define targets for the upcoming field season, particularly at Marble Bar. No field work was conducted during the quarter at the DOM's Hill or Sisters projects.

The DOM's Hill Gold Project consists of two granted tenements and two exploration licence applications (E45/4722, E45/4887, ELA45/4919 and ELA45/5146) located 110km south east of Port Hedland within the Archaean East Pilbara Region (Figure 5). The project contains an array of exploration targets including advanced prospects with significant gold grade intersections and is considered prospective for a range of gold, nickel, cobalt and base metal deposits. Negotiations continued with the relevant Native Title Claimant Group for a Heritage Agreement over the area of ELA45/5146 and by quarter end the Agreement was awaiting full execution by both parties.

The Sisters Gold Project (E47/2983, 80% interest in mineral rights other than lithium) comprises one granted 136km<sup>2</sup> exploration licence located 100km south west of Port Hedland and is prospective for epigenetic gold mineralisation associated with the Mt Wohler Shear, a prospective splay off the gold mineralised Mallina Shear Zone.

The Marble Bar Gold Project comprises one granted 48km<sup>2</sup> tenement (E45/4724, 100% mineral rights other than lithium) located 6.5km east of Marble Bar and 11km north-west of ASX-listed Calidus Resources' Klondyke Gold Project located within the Warrawoona Gold project area.

The southern boundary of E45/4724 is adjacent to Calidus' tenement E45/4555 which contains the high grade Klondyke Gold deposit. Approximately 12km of the prospective Warrawoona Group stratigraphy occurs within E45/4724. The tenement straddles the western intrusive contact of the Archaean Mt Edgar Batholith and the adjacent basalts, amphibolites and ultramafic units of the Warrawoona Group. Major northerly trending arcuate regional structures traverse the project.

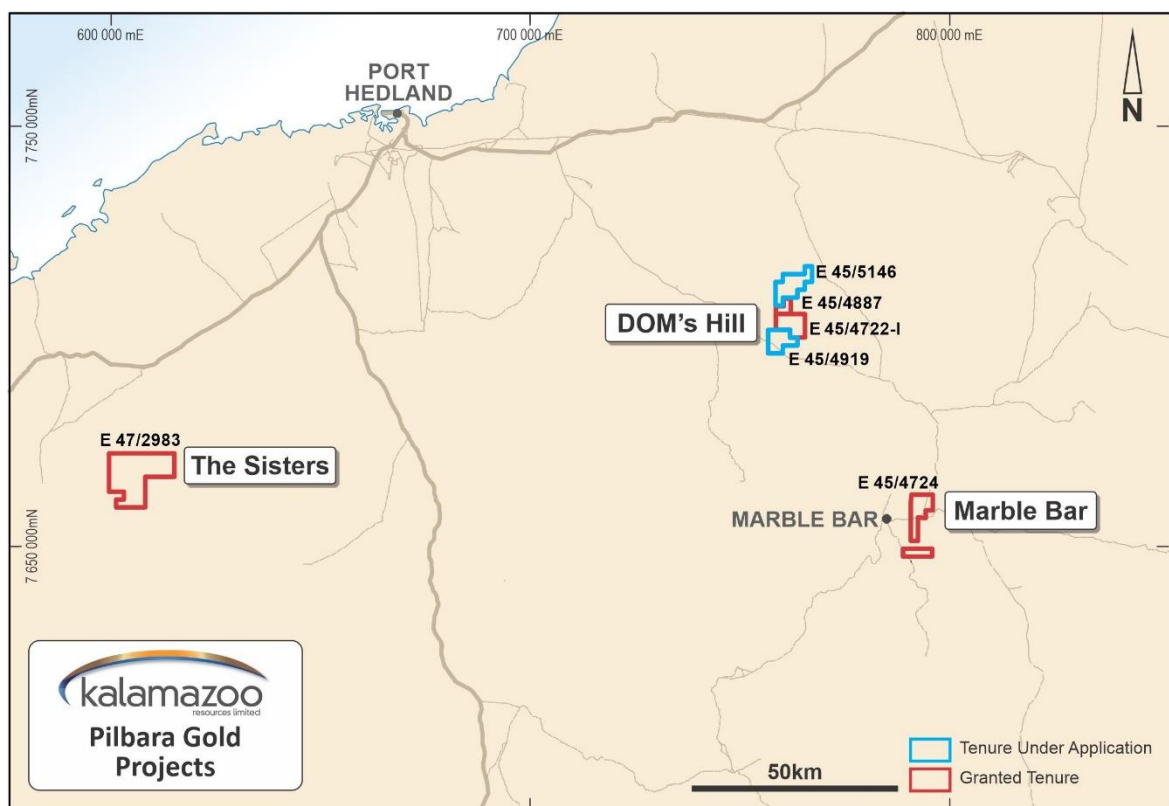


Figure 5: Location of Sisters, DOM's Hill and Marble Bar Gold Project Tenements

An initial reconnaissance soil sampling program was completed at Marble Bar during the quarter with results received and reported post quarter (see ASX: KZR announcement 9 October, 2019). The program identified a high priority soil gold anomaly in the southern area of E45/4724. Gold values peak at 261ppb (0.26ppm) in an anomalous zone stretching over 500m along an east-west grid line. A single point anomaly of 104ppb Au (0.1ppm Au) is located on a line one kilometre to the south (Figures 6 and 7).

This project has never been subject to any systematic modern exploration techniques for gold. Follow up sampling is planned for the December quarter.

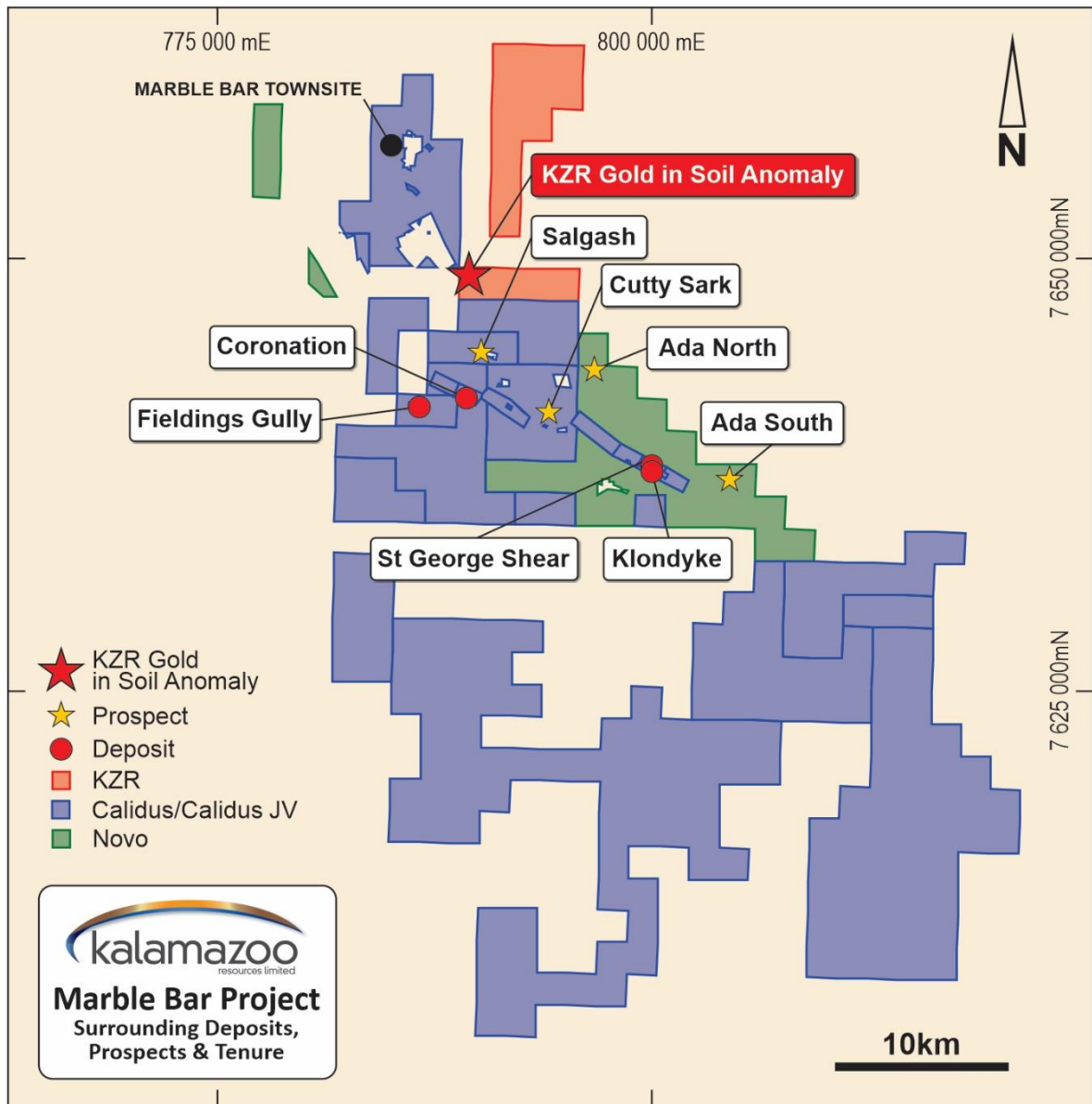


Figure 6: Location of Marble Bar Project

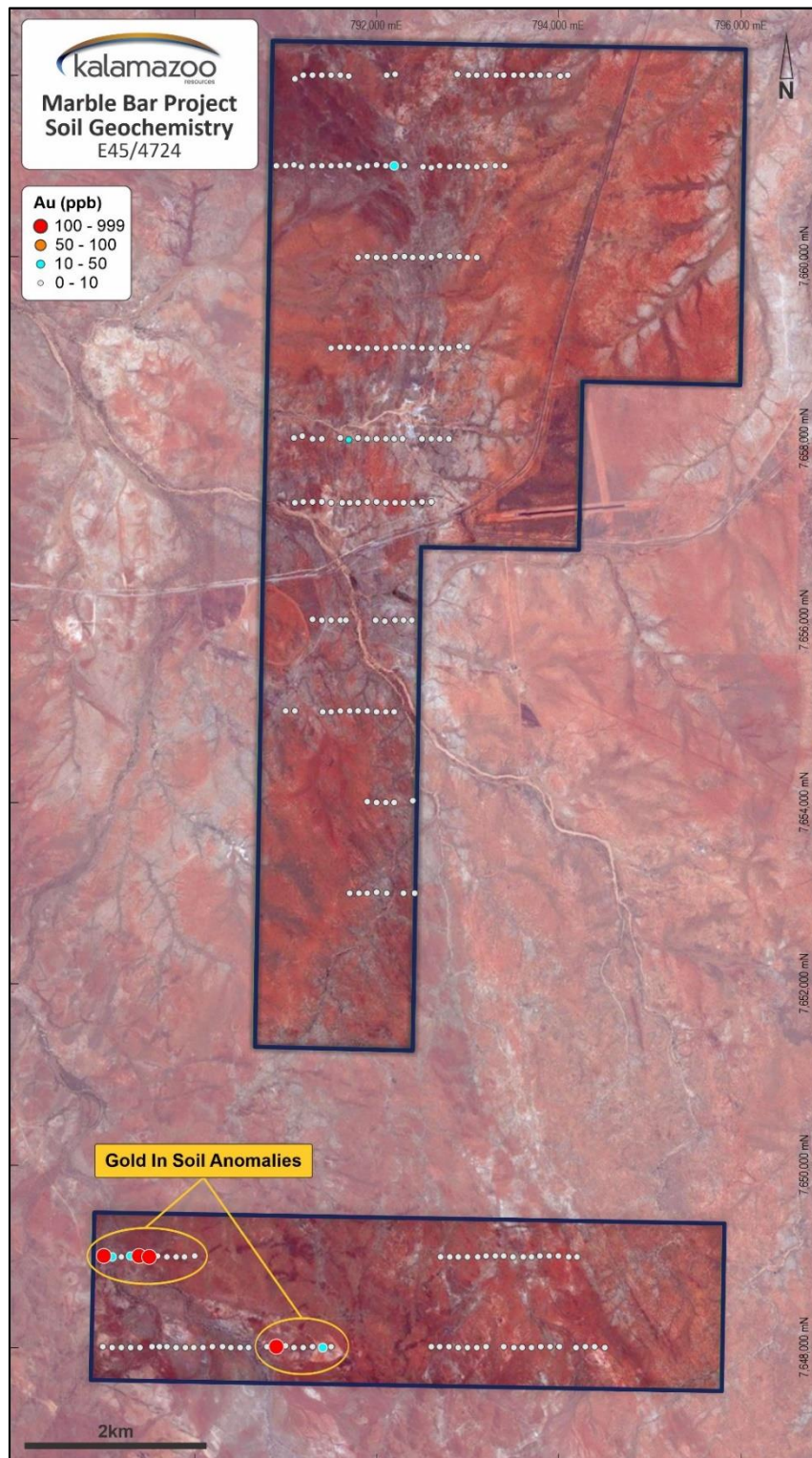


Figure 7: Gold in soil anomalies within E45/4724

## CORK TREE COPPER PROJECT

No work was undertaken during the quarter. During the period the exploration licences E52/2056 and E52/2057 were surrendered.

The project area is strategically located in the Doolgunna region, which hosts Sandfire Resources' (ASX: SFR) DeGrussa and Monty Copper Mines and the Thaduna Copper deposit, Enigma Copper prospect and Horseshoe Lights Copper-Gold mine. Kalamazoo believes the region to be prospective for copper and potentially lead-zinc mineralisation.

## CORPORATE

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The Company had cash of \$1.3 million at 30 September 2019.

In July 2019 the Company completed a placement raising \$1.2 million (before costs) through the issue of 10,000,000 shares at \$0.12c per share along with a one for two attaching option exercisable at \$0.25 and expiring on 10 July 2020. The funds raised will be used to advance exploration programs across the Company's Victorian Gold Projects.

The Company was also pleased to announce during the quarter Mr Luke Reinehr was appointed Chief Executive Officer of the Company, after holding the position of interim Chief Executive Officer since July 2018.

**For further information, please contact:**

Luke Reinehr  
Chairman / CEO  
[luke.reinehr@kzr.com.au](mailto:luke.reinehr@kzr.com.au)

Victoria Humphries  
Investor Relations – NWR Communications  
[victoria@nwrcommunications.com.au](mailto:victoria@nwrcommunications.com.au)

TABLE 2 TENEMENT INFORMATION IN ACCORDANCE WITH LISTING RULE 5.3.3

Project / Tenement ID	State	Status	Interest at start of quarter	Interest at end of quarter	Notes
<b>PILBARA PROJECT</b>					
E47/2983	WA	Granted	80%	80%	80% interest in minerals other than lithium.
E45/4722	WA	Granted	100%	100%	
E45/4724	WA	Granted	100%	100%	100% interest in minerals other than lithium.
E45/4887	WA	Granted	100%	100%	
E45/4919	WA	Application	-	-	
E45/5146	WA	Application	-	-	
<b>CORK TREE PROJECT</b>					
E52/2056	WA	Surrendered	100%	-	
E52/2057	WA	Surrendered	100%	-	
E52/3042	WA	Granted	100%	100%	
E52/3514	WA	Granted	100%	100%	
E52/3515	WA	Granted	100%	100%	
E52/3540	WA	Granted	100%	100%	
<b>CASTLEMAINE PROJECT</b>					
EL006679	VIC	Granted	100%	100%	
EL006752	VIC	Granted	0%	100%	
<b>TARNAGULLA PROJECT</b>					
EL006780	VIC	Granted	0%	100%	
<b>SOUTH MUCKLEFORD PROJECT</b>					
EL006959	VIC	Granted	0%	100%	
EL007021	VIC	Application	-	-	

### **About the Victorian Gold Projects**

Kalamazoo's newest gold assets are the Castlemaine gold projects, which cover almost all the historical Castlemaine Goldfields, the South Muckleford project and the Tarnagulla project. The project areas are located approximately 100 kilometres northwest of Melbourne and are well serviced by a network of roads, railway and air services. The project area lies within easy distance of the major regional population centres of Ballarat and Bendigo. It consists of two granted exploration licences and two exploration licence applications. Castlemaine was one of the richest gold fields in Victoria, having produced 5.6 million ounces from both alluvial and underground sources. The Castlemaine Goldfield is a north trending mineralised zone approximately 10km long and 4km wide, located within the highly mineralised Bendigo-Ballarat zone of the Lachlan Fold Belt.

### **About the Pilbara Tenements**

Kalamazoo acquired between 80% and 100% equity in three highly prospective gold projects in the Pilbara during 2018. The tenements have the potential to host significant gold mineralisation and are located in highly prospective locations within close proximity to some of the Pilbara's most exciting developing gold projects.

### **About the Cork Tree Project**

Kalamazoo's copper asset is the Cork Tree Project, located 830km north east of Perth, 120 kms north-north west of Wiluna and 160 kms north east of Meekatharra, in the Mid-West region. The project can be accessed from Meekatharra via the Great Northern Highway, then the graded Neds Creek Station road. It consists of four granted exploration licences. Sandfire's DeGrussa ore processing facility lies some 30km west of the project area.

### **Competent Persons Statement**

The information for the Victorian Projects is based on information compiled by Dr Luke Mortimer, a competent person who is a Member of The Australian Institute of Geoscientists. Dr Mortimer is an employee engaged as the Exploration Manager Eastern Australia for the Company and 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'. Dr Mortimer consents to the inclusion in this document of the matters based on his information in the form and context in which it appears.

The information in this release relating to the exploration data for all Western Australian projects is based on information compiled by Mr Lance Govey, a competent person who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Govey is an employee of BinEx Consulting who is engaged as the Exploration Manager Western Australia for the Company. Mr Govey 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 Govey consents to the inclusion in this document of the matters based on his information in the form and context in which it appears.

### **Forward Looking Statements**

Statements regarding Kalamazoo's plans with respect to its mineral properties and programmes are forward-looking statements. There can be no assurance that Kalamazoo's plans for development of its mineral properties will proceed as currently expected. There can also be no assurance that Kalamazoo will be able to confirm the presence of additional mineral resources/reserves, that any mineralisation will prove to be economic or that a mine will successfully be developed on any of Kalamazoo's mineral properties. The performance of Kalamazoo may be influenced by a number of factors which are outside the control of the Company and its Directors, staff and contractors.