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TUNGSTEN MINING

Quarterly Report

June 2019

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Quarterly Report – June 2019

Highlights

- **Pre-Feasibility Study Commenced** – in support of large scale mining and processing activities at Mt Mulgine.
- **Resource definition drilling program commenced** – interpretation of existing data indicates drilling is likely to define substantially more tonnes of polymetallic mineralisation at the Mulgine Trench deposit than defined by the current 2014 Mineral Resource Estimate.
- **Completion of preliminary geo-metallurgical model** – using data generated from 4 PQ holes from Mulgine Trench and historical RC assay data has identified 5 main lithologies which has significantly de-risked the representativity of samples selected for metallurgical test work.
- **Hatches Creek Project Farm-in Agreement Executed** – delivering Tungsten Mining an initial 20% interest in the Hatches Creek Tungsten Project located 375 km north east of Alice Springs in the Northern Territory of Australia.
- **High grade tungsten, copper and molybdenum results achieved** – from 13 RC drill holes for 1,524m completed at the Hit or Miss Prospect of the Hatches Creek Polymetallic Project.
- **Re-submission of NVCP application** – At the regulator request; a targeted fauna survey and species identification was completed, the results of which will be included in the re-submission of the NVCP and Mining proposal in the September quarter.
- **S&P Dow Jones Indices** – adds Tungsten Mining to the S&P/ASX All Ordinaries index from 18 March 2019.
- **Cash position** – The Company's cash position as at 30 June 2019 was $33.78m.

Commentary

Tungsten Mining continues to implement its strategy directed at building a tungsten business of scale, growing its resource inventory to 25.8 million MTU's (metric tonne units) of WO_3 (tungsten trioxide) and a further 19,500 tonnes of Mo (molybdenum) (refer accompanying Mineral Resource Statements).

The decision to commit to the implementation of feasibility studies for large scale mining and processing of tungsten at Mt Mulgine has seen a focus on building the team to deliver a successful PFS on budget, schedule – and overall outcome. We are confident that we have the resources in place to achieve this.

The first phase of a substantial drill program on the Trench deposit commenced in mid-July and we look forward to the receipt of assay results as the program unfolds. The assay suite selected should provide considerable insights through work planned in updating the Mineral Resource Estimate and the geo-metallurgical model of the deposit.

The Farm-in Agreement for the Hatches Creek Project in the Northern Territory provides Tungsten Mining with an immediate exposure to an exciting polymetallic advanced exploration play complimented by the ability to leverage off our development team's expertise in tungsten.

Tungsten Mining's CEO Craig Ferrier commented, "*With the commencement of resource definition drilling at Trench we are moving into a new phase of activity for Mt Mulgine. Multiple streams of activity are advancing for the PFS and we look forward to updating the market on progress over the coming months.*"

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Tungsten Mining

Tungsten Mining NL ("the Company") is focussed on the discovery and development of tungsten deposits in Australia. The Company's key projects are Mt Mulgine, Big Hill and Kilba in Western Australia, Watershed in north east Queensland and Hatches Creek in the Northern Territory.

Through exploration and acquisition, the Company has grown its resource inventory to 25.8 million MTU's (metric tonne units) of WO_3 (tungsten trioxide) and a further 19,500 tonnes of Mo (molybdenum) comprising Measured Resources of 9.5Mt at 0.16% WO_3, Indicated Resources of 58.6Mt at 0.14% WO_3 and 21ppm Mo and Inferred Resources of 111.0Mt at 0.14% WO_3 and 165ppm Mo at a cut-off grade of 0.05% WO_3 (refer accompanying Resource Statement). This provides the platform for the Company to become a globally significant player within the primary tungsten market through the development of low-cost tungsten concentrate production.

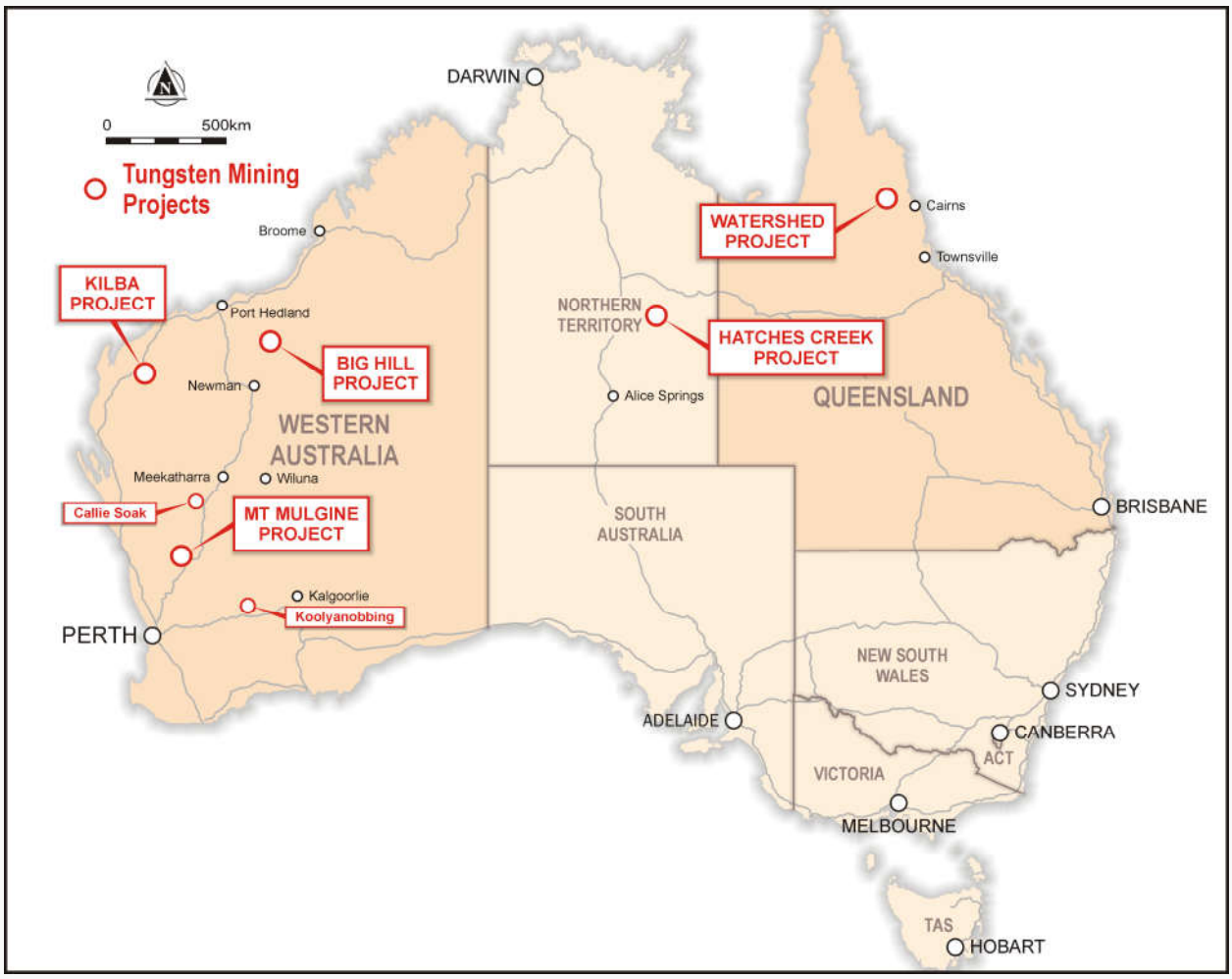

Figure 1 – Projects location map

Mt Mulgine Project, Murchison WA

The Mt Mulgine Project remains the highest priority development project for the Company, responsible for the majority of activity during the quarter.

It is located within the Murchison Region of Western Australia, approximately 350km north northeast of Perth. The Company has 100% of the tungsten and molybdenum rights on a contiguous group of tenements that have been the subject of significant previous exploration for tungsten and molybdenum.

Two near surface Mineral Resources have been delineated at the Mulgine Trench and Mulgine Hill deposits. Currently, there is a combined Mineral Resource estimate of 71.0Mt at 0.18% WO_3 and 238ppm Mo (0.10% WO_3 cut-off) comprising Indicated Resources of 6.0Mt @ 0.22% WO_3 and 151ppm Mo and Inferred Resources of 65.1Mt @ 0.17% WO_3 and 246ppm Mo.

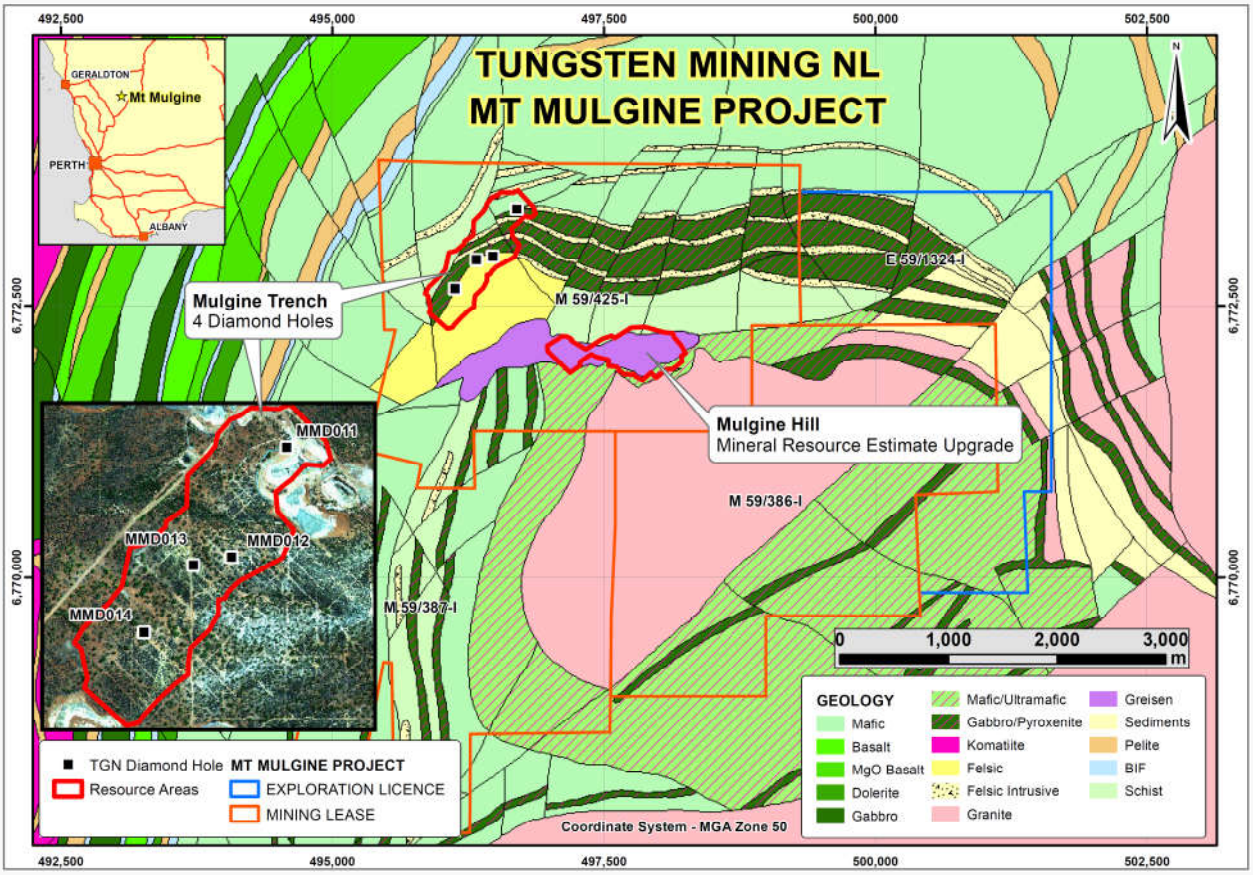

Figure 2. Location of Mulgine Hill Mineral Resource and Mulgine Trench diamond drilling.

Mt Mulgine Development

Following the commitment to the Pre-Feasibility Study for large scale operations at Mt Mulgine, a master schedule of activities and project controls were developed. The study is forecast to continue for 12 months with the current scheduled completion date July 2020.

Phase 1 of a three phase drilling program commenced during the June quarter.

A preliminary geo-metallurgical model has been developed and identified 5 main lithologies which has significantly de-risked the representativity of samples selected for metallurgical test work. This model will continue to be developed using assay data and core logging information from phase 1 drilling.

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June Quarter Activities

For the June quarter, work was focussed on preparation for the PFS, with major activities being:

- Development of a master schedule and project controls for PFS project management;
- Receival of regulatory approval to commence drilling activities on site;
- Phase 1 resource drilling commenced on 12 July;
- Delivery of a conceptual geo-metallurgical model of the Trench deposit using "hy-logging" data from 4 diamond holes and historical RC assay data;
- Commencement of QEMSEM and comminution metallurgical test work;
- Completion of ore sorting test work on bulk samples recovered from the Mulgine Trench deposit;
- Recovery and identification of specific fauna as requested by the DBCA;
- Development of a preliminary site layout to provide the basis for identifying areas that may require additional survey work to be completed.

Planned Activities – September Quarter

The major activities planned for the September quarter will be to;

- Complete Phase 1 drill program and commence the preparation of an updated mineral resource estimate and pit optimisations for the Trench deposit;
- Commence Phase 2 infill drilling of the Trench deposit;
- Continue with other studies and surveys required to deliver the PFS according to the master schedule;
- Continue the metallurgical test work program;
- Re-submit a revised NVCP application in support of the clearing envelope identified for the Mulgine Hill deposit.

Geology and Resources

Mulgine Trench

Tungsten mineralisation at Mulgine Trench is hosted by quartz-scheelite veins in mafic and ultramafic volcanics in a 100 to 250 metre thick zone that extends over 1.5 kilometres of strike. Mineralisation is open along strike and down dip and is associated with foliation parallel quartz veins generally less than 10 centimetres in width. Mineralisation is strongest where quartz veining averages 15 – 20% of the total rock.

During August 2016, the Company drilled 9 RC holes for 476 metres at Mulgine Trench to test tungsten mineralisation adjacent to and beneath the Bobby McGee pit. Results from this drilling were extremely encouraging, intersecting substantial thicknesses of tungsten mineralisation (i.e. 72 metres at 0.16% WO_3 and 0.02% Mo from surface in MMC030) and molybdenum mineralisation (40 metres at 0.08% WO_3 and 0.12% Mo from surface in MMC028).

In September 2018, the Company drilled four PQ diamond holes for 528.2 metres to obtain samples for metallurgical studies at Mulgine Trench (Figure 2). The PQ core will be used to conduct extensive test work to identify the optimal recovery process for both tungsten and molybdenum.

Geological logging and sampling were completed in the December quarter and assay results were received and reported to ASX on 12 April 2019. The PQ diamond holes twinned historical diamond holes and one Tungsten Mining reverse circulation (RC) hole confirming original intersections. These holes demonstrated the significance of mineralisation present at Mulgine Trench by intersecting substantial thicknesses of low to medium grade tungsten-molybdenum mineralisation including 90 metres at 0.16% WO_3 and 0.015% Mo in MMD014 and 65 metres at 0.13% WO_3 and 0.032% Mo in MMD011. Drilling has provided four tonnes of mineralised core for the metallurgical program.

The Hazelwood 2014 Mulgine Trench Mineral Resource (Table 1) estimated grades for tungsten and molybdenum into 0.10% WO_3 domains and ignored low-grade tungsten that in many instances has associated molybdenum mineralisation. By including this mineralisation, the Company's recent metallurgical drilling and historic diamond holes indicates significant potential to add to the 2014 Mineral Resource. Mineralisation is open along strike, down dip and in some cases up dip.

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Table 1: JORC-2012 Mineral Resource estimates for Mulgine Trench

Mulgine Trench Deposit – November 2014			
Classification	**Tonnes (Millions)**	**WO_3%**	**Mo ppm**
Indicated	0.4	0.14	400
Inferred	63.4	0.17	250
Total	**63.8**	**0.17**	**250**

Refer ASX (HAZ) Announcement 5 November 2014, "Hazelwood continues to increase tungsten resource".

A list of intersections above 0.05% WO_3 displaying the bulk tonnage potential at Mulgine Trench is presented in Table 2.

Table 2 –Tungsten – Molybdenum Intersections from diamond drilling at Mulgine Trench

Mulgine Trench Drilling - Significant Tungsten – Molybdenum Mineralisation (at 0.05% WO_3 cut off)										
Hole No	**MGA Coordinates**				**Intersections**					
	Northing (m)	**Easting (m)**	**Depth (m)**	**Dip/ Azim**	**From (m)**	**To (m)**	**Interval (m)**	**WO_3 (%)**	**Mo (%)**	**Weathering**
MMD011	6,773,387	496,696	93.1	-60/135	4	34	30	0.12	0.036	Weath.
MMD011					34	69	35	0.13	0.028	Fresh
MMD012	6,772,950	496,475	87.1	-60/135	14	54	40	0.10	0.087	Weath.
MMD012					54	78	24	0.08	0.028	Fresh
MMD013	6,772,920	496,323	177	-90	34	82	48	0.11	0.033	Fresh
MMD013					128	163	35	0.14	0.046	Fresh
MMD013					172	176	4	0.18	0.114	Fresh
MMD014	6,772,656	496,128	171	-90	0	27	27	0.16	0.021	Weath.
MMD014					27	90	63	0.16	0.013	Fresh
MMD014					116	136	20	0.19	0.040	Fresh
MMD014				(EOH)	163	171	8	0.13	0.059	Fresh

Quarter core samples analysed by XRF determination at Nagrom laboratories, Kelmscott WA. Lower cut-off grade 0.05% WO_3, no top cut grade. All high-grade intervals greater than 1.00% WO_3 listed. Intervals listed are >2 metres at 0.05% WO_3 with up to 2 consecutive metres of internal waste. Grid coordinates are MGA Zone 50. Fresh – contains fresh scheelite, Weath. – tungsten present in another mineral species. EOH – End of hole

Commencement of Resource Development Drilling at Trench

The Company has commenced a phased drilling programme at Mulgine Trench directed at meeting milestones with updated Mineral Resource Estimates (MRE) and optimisations used to direct drilling activities in later phases. Interpretation of existing data indicates drilling is likely to define substantially more tonnes of polymetallic mineralisation at Trench than defined by the Hazelwood 2014 MRE. By conducting an MRE update and pit optimisation following completion of Phase 1, drilling will be minimised and targeted towards the best economic outcome.

Phase 1 is planned to comprise 12,000m of RC drilling as follows:

- Complete infill drilling of existing sections at 40 metres spacing (54 holes, 8,000m) over the latest pit optimisation. This will validate historic drilling, the geological interpretation and the current MRE. On completion of this phase, the MRE and the current optimisation will be updated to direct the much larger 40-metre spaced drill out.
- Complete Scout drilling (nominal 160m by 80m) over possible extensions to known mineralisation to confirm no-go areas for waste dumps immediately adjacent to Trench (35 holes, 4000m).
- Four geotechnical holes to attain data for pit design parameters.

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It is proposed that Phase 2 will complete infill drilling over the re-optimised pit design to a 40 metre by 40 metre spacing required to upgrade the MRE at Mulgine Trench to an Indicated status, whilst Phase 3 will complete sterilisation drilling of proposed infrastructure locations including waste dumps, ROM, plant, TSF and stockpiles on a 200 metre by 80 metre spacing.

Mulgine Hill

At Mulgine Hill, mineralisation is associated with the sub-horizontal upper contact of a mafic schist unit and overlying quartz-muscovite greisen. Tungsten occurs as scheelite in coarse disseminations within the greisen or within numerous quartz and greisen veins in both the mafic schists and the quartz-muscovite greisen.

Resource Update - March 2019

The previous Mulgine Hill Mineral Resource estimate was prepared by Optiro Pty Ltd in May 2017 in accordance with the guidelines provided by the 2012 JORC Code (see ASX Announcement dated 28 July 2017). Since the May 2017 Mineral Resource estimate, the Company has drilled an additional 153 RC holes for 8,912 metres and four HQ diamond holes for 321 metres.

Resource consultancy Optiro Pty Ltd was engaged to update the Mulgine Hill Mineral Resource and completed this exercise in March 2019. The revised Mineral Resource estimate for Mulgine Hill above a 0.10% WO_3 reporting cut-off grade is presented in Table 3.

Table 3: JORC-2012 Mineral Resource estimates for Mulgine Hill

Mulgine Hill Deposit – March 2019 reported above a 0.10% WO_3 cut-off				
Classification	**Oxidation**	**Tonnes (Millions)**	**WO_3%**	**Mo ppm**
Indicated	Oxide	0.7	0.21	149
	Fresh	4.9	0.23	131
Sub-Total		**5.6**	**0.23**	**133**
Inferred	Oxide	0.4	0.20	127
	Fresh	1.3	0.18	109
Sub-Total		**1.7**	**0.19**	**113**
Total	Oxide	1.1	0.21	141
	Fresh	6.2	0.22	126
Grand Total		**7.3**	**0.22**	**129**

The Mineral Resource estimate for Mulgine Hill as of 21 March 2019 is 7,300,000 tonnes at 0.22% WO_3 and 129 ppm Mo (Refer to ASX announcement dated 12 April 2019). The drilling completed by the Company has resulted in a 37% increase of Indicated tonnes with 25% more molybdenum and 4% decrease in tungsten at a 0.10% WO_3 lower cut off.

Development – Mt Mulgine

Metallurgy

Geo-metallurgy

CSA Global completed geo-metallurgical analysis on the 530 metres of PQ diamond core recovered during the Q3 2018 drilling campaign and historical RC assay data. The results from this work have identified 5 main lithologies which has significantly de-risked the representativity of samples selected for metallurgical test work. CSA Global will continue the development of a geo-metallurgical model of the Trench deposit through analysis of an additional 12,000 metres of RC drill chips from Mulgine Trench.

PFS Metallurgical Testwork

The aim of the metallurgical testwork program is to test the variability in metallurgical response between the different lithologies and identify the optimal flowsheet to produce a high grade tungsten and molybdenum concentrate. There will also be a focus on maximising the value from the by-products present in the ore body.

Ore sorting trials using XRT ore sorting technology on two six tonne bulk samples collected from existing stockpiles at Mulgine Trench was completed. at TOMRA in NSW. The aim of the test work was to determine the optimal particle size range and to quantify the material balance between ore feed, product and waste. The initial results were very promising and will be reported in the next quarter once all the assay data has been received and analysed.

Comminution testwork to date on core from differing lithologies indicated a moderate level of ore hardness.

The metallurgical work program is expected to be completed by the end of the next quarter.

Oxide/Weathered Layer R&D

The current phase of the R&D test work program to recover tungsten from the oxide/weathered zone has been completed. Samples collected from the Mulgine Hill reverse circulation (RC) drilling program underwent HLS test work and mineralogical analysis to identify mineral types that will be amenable to gravity concentration. The results from this work showed there was recoverable scheelite in the oxide layer. Additional work is required to understand how this translates to the Mulgine Trench orebody and where tungsten minerals can be economically extracted from the oxide layer.

Regulatory Submissions

The Company continued to work with its environmental advisers and the Department of Mines, Industry Regulation and Safety (DMIRS) in relation to the re-submission of its NVCP application as reported in the March 2019 quarterly.

At the regulator request; a targeted fauna survey and species identification was completed, the results of which will be included in the re-submission of the NVCP and Mining proposal in the September quarter.

Site Layout

The company continued to work on the proposed site layout for the Mt Mulgine project identifying preferred locations for the major infrastructure such as waste dumps and tailings storage facilities. This site layout will direct the sterilisation drilling program to be completed in the December quarter.

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Other Projects

Hatches Creek Polymetallic Project, Davenport Province, NT

The Hatches Creek Project consists of two granted exploration licences covering 31.4 km^2 (EL22912 and EL23462), which cover the entire historic Hatches Creek tungsten mining centre. Hatches Creek is a large historical high-grade tungsten mining centre where mining was undertaken between 1915 and 1957. Previous recorded production is approximately 2,840 tonnes of 65% WO_3. Bismuth concentrate and copper ore have also been produced.

On 3 June 2019 the Company announced that it had executed an agreement with GWR Group Limited (ASX: GWR) ("GWR") to farm-in to the Hatches Creek Project. The Farm-in Agreement provides for Tungsten Mining to direct and manage exploration and development activities at Hatches Creek where past drilling by GWR confirmed multiple high-grade polymetallic tungsten prospects and demonstrated potential for a large high-grade polymetallic tungsten deposit (refer GWR announcements dated 17 July 2018 and 22 May 2019).

The Project is located 375 km north east of Alice Springs in the Northern Territory of Australia (Figure 3).

Figure 3 – Hatches Creek Project location map

Pursuant to the terms of the Farm-in Agreement, summarised in the announcement dated 3 June 2019, the Company has acquired an initial 20% interest in the Project by reimbursing GWR for past exploration expenditure in the amount of $1.72m. Tungsten Mining can increase its interest to 51% by the expenditure of $3,000,000 on exploration, development and mining activities within 5 years of the commencement date. Should a decision to mine be made by Tungsten Mining whilst in the sole fund stage, the Company has an option to acquire GWR's remaining interest for $6.96m (indexed for CPI).

Successful completion of RC drilling program

On 22 May 2019 GWR reported high grade tungsten, copper and molybdenum results achieved from 13 RC drill holes for 1,524m completed at the Hit or Miss Prospect. The announcement (GWR: 22 May 2019) reported that all holes yielded multiple significant results which included:

- HCRC0053, 6m at 0.42% WO_3 from 35m, including 1m at 1.88% WO_3 from 40m;
- HCRC0053, 5m at 0.44% WO_3 and 1.00% Cu from 115m, including 1m at 0.72% WO_3 and 3.06% Cu from 115m;
- HCRC0054, 3m at 0.82% WO_3, from 100m, including 1m at 1.93% WO_3 from 100m.

The RC drilling program was reported as being successful with all holes yielding multiple significant tungsten intercepts, anomalous and significant Cu and Mo mineralisation has also been intersected in some areas, demonstrating the polymetallic style of the mineralisation. Pursuant to the terms of the Farm-in Agreement, Tungsten Mining has reimbursed GWR the amount of $291,720 for the cost of completing the latest drilling program, with such costs forming part of Tungsten Mining's earn-in commitment.

Further details on the results of recent and past drilling programs, Mineral Resource Estimate for surface dumps and the Exploration Target Estimate for the Hatches Creek Project are set out in GWR's ASX announcements dated 17 July 2018 and 22 May 2019.

Watershed Project, Far North, Queensland

Watershed is located 130km north of Cairns in a mining friendly jurisdiction, with granted Mining Leases and an Environmental Authority for an open-pit development. Former project owner, Vital Metals Limited (Vital Metals) completed a Definitive Feasibility Study (DFS) for the project in 2014.

The Watershed Project substantially adds to Tungsten Mining's global resource inventory and boasts a JORC 2012 Mineral Resource Estimate of 49.3Mt grading 0.14% WO_3 comprising Measured Resources of 9.5Mt at 0.16% WO_3, Indicated Resources of 28.4Mt at 0.14% WO_3 and Inferred Resources of 11.5Mt at 0.15% WO_3 at a cut-off grade of 0.05% WO_3 (refer ASX announcement dated 31 July 2018 - June Quarterly Report p23).

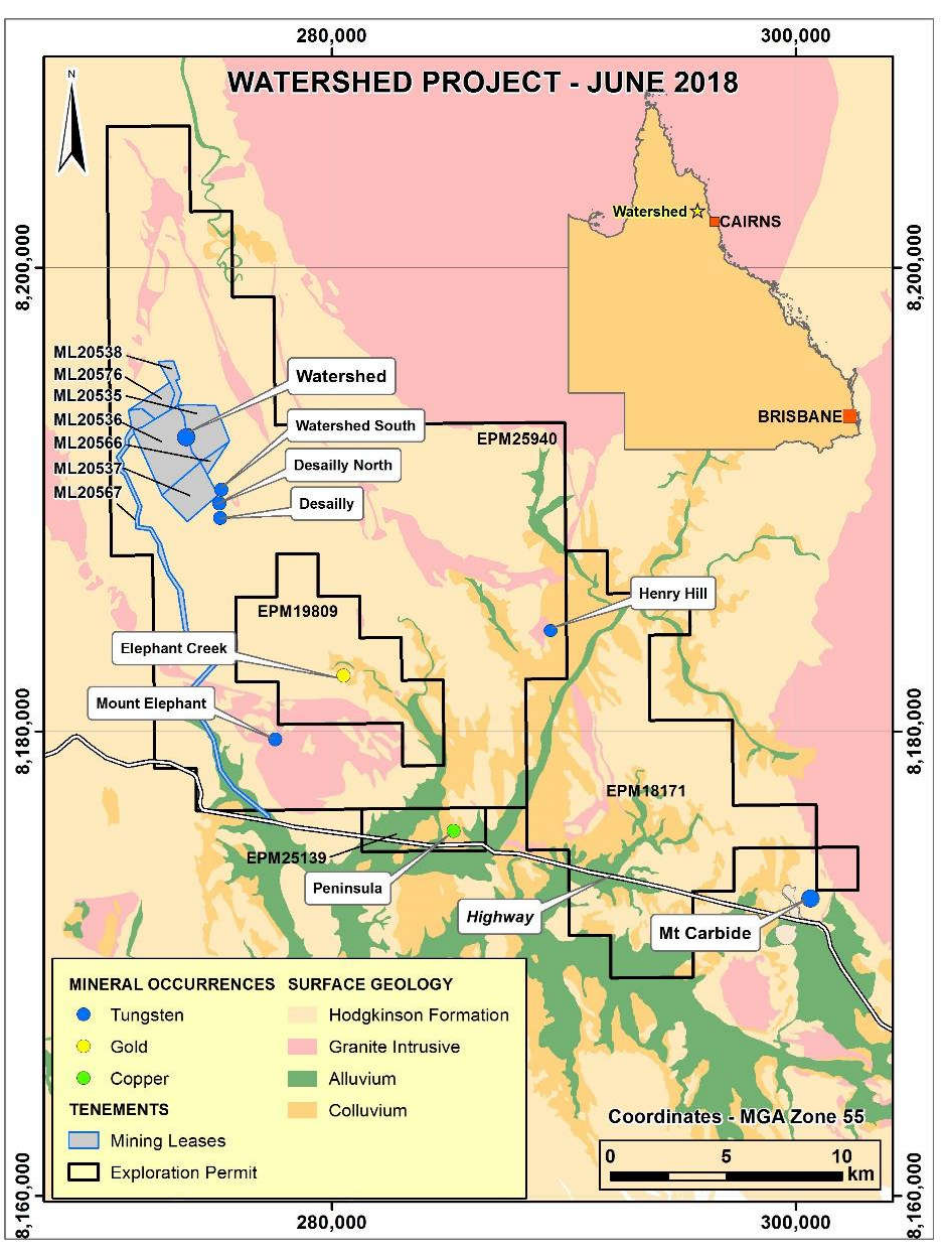

Figure 4 – Watershed Project location map

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Big Hill Project, Eastern Pilbara, WA

The Big Hill Project area is located approximately 30km northeast of the Nullagine township in the Eastern Pilbara of Western Australia. The project contains the Big Hill deposit where 22,871 metres of diamond and RC drilling have defined a JORC-2012 Mineral Resource estimate totalling 11.5Mt at 0.15% WO_3 (0.10% WO_3 cut-off) comprising an Indicated Resource of 6.2Mt at 0.16% WO_3 and an Inferred Resource of 5.3Mt at 0.13% WO_3.

Metallurgical test work conducted on samples from Big Hill at bench and pilot scale has produced high quality tungsten concentrates at acceptable scheelite recoveries. This work has identified a simple and potentially low cost processing route.

Retention License R46/003 was granted in April 2017. There are no planned activities for the Big Hill Project in the next quarter.

Kilba Project, Ashburton Region, WA

The Kilba Project is located within the Ashburton Region of Western Australia, 250km southwest of Karratha. To date, Tungsten Mining has focused on the historic Zones 8, 11 and 12 that Union Carbide discovered in the 1970s. Drilling has targeted high-grade tungsten mineralisation associated with skarns and calc-silicate units situated close to the Kilba granite.

This work has defined a JORC-2012 compliant Mineral Resource totalling 5.0Mt at 0.24% WO_3 (0.10% WO_3 cut-off) comprising an Indicated Resource of 4.1Mt at 0.25% WO_3 and an Inferred Resource of 0.8Mt at 0.20% WO_3.

Metallurgical test work shows that the tungsten is present as coarse-grained scheelite that will respond well to conventional gravity separation. Test work completed in 2015 has demonstrated the ability to produce an extremely high grade tungsten concentrate.

In May 2017, DMIRS approved a 5 year exemption from expenditure for M08/314 pursuant to the Mining Act. There are no planned activities for the Kilba Project in the next quarter.

Other Projects, Regional WA

Tungsten Mining has two other projects in Western Australia prospective for tungsten, the Koolyanobbing and Callie Soak projects. Work on these projects continues to be in the initial stages of reconnaissance and target generation and it is hoped that these tenements will yield additional mineralisation that Tungsten Mining can exploit.

Corporate

Tungsten Pricing

Global tungsten prices (by reference to price quotations for European ammonium paratungstate – APT) softened through the June quarter as European prices followed Chinese markets lower on subdued demand.

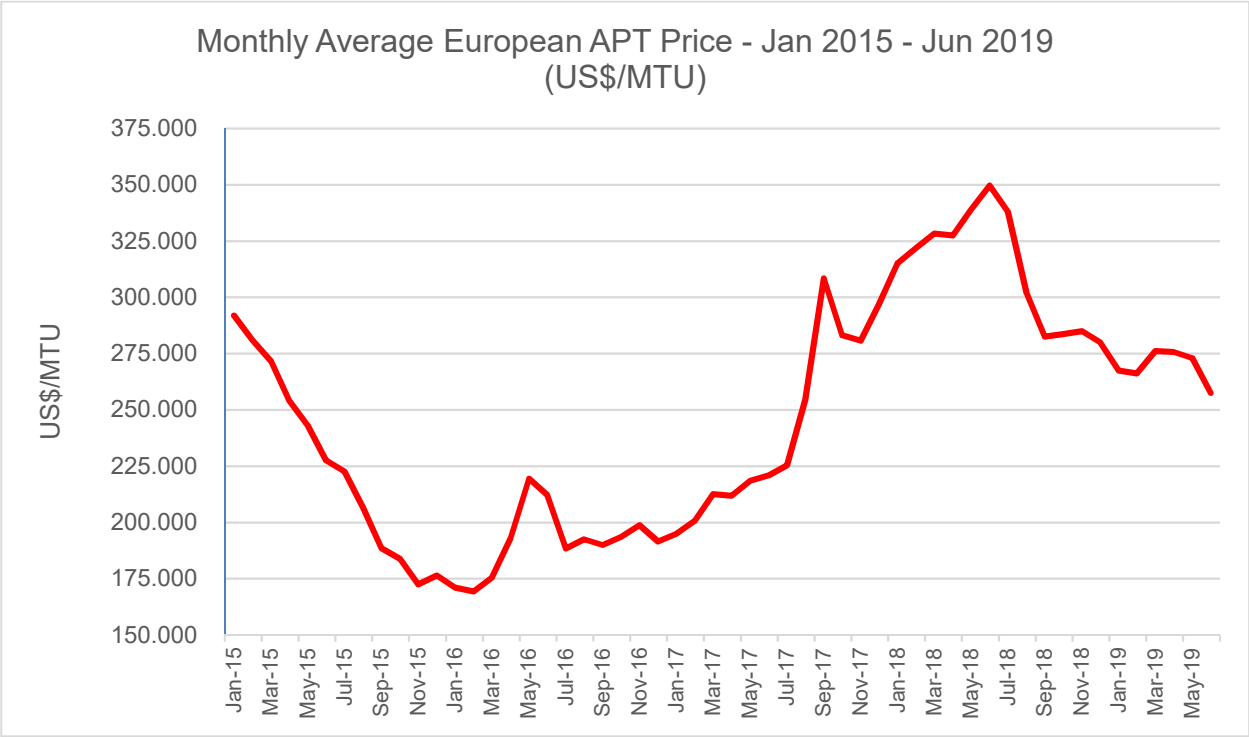

Figure 5 – APT Price (source: Metal Bulletin, Argus)

Other

The Company's cash position as at 30 June 2019 was $33.78m.

For further information:

Craig Ferrier
Chief Executive Officer
Ph: +61 8 9486 8492
E: craig.ferrier@tungstenmining.com

Mark Pitts
Company Secretary
Ph: +61 8 9316 9100
E: mark.pitts@tungstenmining.com.au

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Competent Person's Statement

The information in this report that relates to Exploration Targets and Exploration Results is based on, and fairly represents, information and supporting documentation prepared by Peter Bleakley, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Bleakley is not a full-time employee of the company. Mr Bleakley is a consultant to the mining industry. Mr Bleakley has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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 Bleakley consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to Mineral Resources at Mulgine Hill, Big Hill and Kilba are extracted from the reports titled 'Update on Activities at Mount Mulgine' released to the Australian Securities Exchange (ASX) on 12 April 2019, 'Big Hill June 2016 Mineral Resource Update' released to the ASX on 23 June 2016, and 'Kilba Mineral Resource Update' released to the ASX on 30 January 2015, all are available to view at www.tungstenmining.com. The information in this report that relates to Mineral Resource at Watershed is extracted from the report titled 'Watershed Mineral Resources Restatement JORC Code (2012)' released to the ASX on 4 July 2018 by Vital Metals Limited. The information in this report that relates to Mineral Resources at Mulgine Trench is extracted from the report titled 'Hazelwood continues to increase tungsten resource' released to the ASX by Hazelwood Resources Ltd on 5 November 2014. Tungsten Mining have drilled an additional 6 RC and five diamond holes into the Mulgine Trench Mineral Resource. Interpretation of all new data is proceeding and a revised estimate will be released later in 2019. Other than the aforementioned review, the Company confirms that it is not aware of any new information or data that materially affects the information included in the ASX announcements and that all material assumptions and technical parameters underpinning the estimates in original ASX announcements 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 ASX announcements.

About Tungsten Mining

Emerging Australian tungsten developer, Tungsten Mining NL is an Australian based resources company listed on the Australian Securities Exchange. The Company's prime focus is the exploration and development of tungsten projects in Australia.

Tungsten (chemical symbol W), occurs naturally on Earth, not in its pure form but as a constituent of other minerals, only two of which support commercial extraction and processing - wolframite ($(Fe, Mn)WO_4$) and scheelite ($CaWO_4$).

Tungsten has the highest melting point of all elements except carbon – around 3400°C giving it excellent high temperature mechanical properties and the lowest expansion coefficient of all metals. Tungsten is a metal of considerable strategic importance, essential to modern industrial development (across aerospace and defence, electronics, automotive, extractive and construction sectors) with uses in cemented carbides, high-speed steels and super alloys, tungsten mill products and chemicals.

Through exploration and acquisition, the Company has established a globally significant tungsten resource inventory in its portfolio of advanced mineral projects across Australia. This provides the platform for the Company to become a major player within the global primary tungsten market through the development of low-cost tungsten concentrate production.

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Tenement Summary

Tenement Name	Tenement	Interest held at 31 March 2019	Interest acquired/ disposed of during quarter	Interest Held at 30 June 2019
Kilba Well	E08/2139	100%	N/A	100%
Kilba Well	M08/314	100%	N/A	100%
Kilba Well	E08/2780	100%	N/A	100%
Koolyanobbing*	E77/2279	100% mineral rights for tungsten, 20% for other commodities	N/A	100% mineral rights for tungsten, 20% for other commodities
Callie Soak	E20/854	100%	N/A	100%
Mt Mulgine**	E59/1324-I	100% mineral rights for tungsten and molybdenum	N/A	100% mineral rights for tungsten and molybdenum
Mt Mulgine**	M59/386-I	"	N/A	"
Mt Mulgine**	M59/387-I	"	N/A	"
Mt Mulgine**	M59/425-I	"	N/A	"
Mt Mulgine	L59/161	100%	N/A	100%
Mt Mulgine	L59/162	100%	N/A	100%
Big Hill	L46/70	100%	N/A	100%
Big Hill	R46/3	100%	N/A	100%
Watershed	ML20535	100%	N/A	100%
Watershed	ML20536	100%	N/A	100%
Watershed	ML20537	100%	N/A	100%
Watershed	ML20538	100%	N/A	100%
Watershed	ML20566	100%	N/A	100%
Watershed	ML20567	100%	N/A	100%
Watershed	ML20576	100%	N/A	100%
Watershed	EPM25102	100%	N/A	100%
Watershed	EPM18171	100%	N/A	100%
Watershed	EPM25940	100%	N/A	100%
Watershed	EPM19809	100%	N/A	100%
Watershed	EPM25139	100%	N/A	100%
Hatches Creek***	EL22912	Nil	20%	20%
Hatches Creek***	EL23463	Nil	20%	20%

* This tenement is held by Lithium Australia NL and subject to the terms of the Seabrook Rare Metals Venture

** Certain Mt Mulgine tenements are registered in the name of Minjar Gold Pty Ltd with Mid-West Tungsten Pty Ltd (MWT), a subsidiary of Tungsten Mining NL being the holder of the Tungsten and Molybdenum Mineral Rights. MWT is the registered holder of Miscellaneous Licenses L59/161 and 162.

***Tungsten Mining holds a 20% beneficial interest in the relevant tenements pursuant to the Farm-in Agreement. GWR Group Ltd remains the registered tenement holder pending registration of the tenement transfers with the Northern Territory Department of Primary Industries & Resources.

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Tungsten Mining NL – Resource Inventory at 0.10% WO_3 Cut-Off

Class	Tonnes	Grade WO_3%	Metric Tonne Units	Mo (ppm)	Contained Mo Tonnes
Mulgine Trench (October 2014) [1]					
Measured	-	-	-	-	-
Indicated	400,000	0.14	50,000	400	150
Inferred	63,400,000	0.17	10,930,000	250	15,600
Total	63,700,000	0.17	10,980,000	250	15,700
Mulgine Hill (March 2019) [2]					
Measured	-	-	-	-	-
Indicated	5,600,000	0.23	1,290,000	133	700
Inferred	1,700,000	0.19	320,000	113	200
Total	7,300,000	0.22	1,610,000	129	900
Mt Mulgine (Total)					
Measured	-	-	-	-	-
Indicated	6,000,000	0.22	1,340,000	151	900
Inferred	65,100,000	0.17	11,100,000	246	16,000
Total	71,000,000	0.18	12,440,000	238	16,900
Watershed (July 2018) [3]					
Measured	4,400,000	0.25	1,110,000	-	-
Indicated	11,500,000	0.24	2,760,000	-	-
Inferred	4,700,000	0.26	1,230,000	-	-
Total	20,700,000	0.25	5,070,000	-	-
Big Hill (June 2016) [4]					
Measured	-	-	-	-	-
Indicated	6,200,000	0.16	980,000	-	-
Inferred	5,300,000	0.13	700,000	-	-
Total	11,500,000	0.15	1,670,000	-	-
Kilba (January 2015) [5]					
Measured	-	-	-	-	-
Indicated	4,100,000	0.25	1,040,000	-	-
Inferred	840,000	0.20	170,000	-	-
Total	5,000,000	0.24	1,210,000	-	-
Total Resource Inventory					
Measured	4,400,000	0.25	1,100,000	0	0
Indicated	27,800,000	0.22	6,100,000	33	900
Inferred	75,940,000	0.17	13,200,000	211	16,000
Total	108,200,000	0.19	20,400,000	156	16,900

Note: Totals may differ from sum of individual numbers as numbers have been rounded in accordance with the Australian JORC code 2012 guidance on Mineral Resource reporting.

1. Refer ASX (HAZ) Announcement 5 November 2014, “Hazelwood continues to increase tungsten resource”.
2. Refer ASX (Tungsten Mining) Announcement 12 April 2019, “Update on Activities at Mt Mulgine”.
3. Refer ASX (Vital Metals) Announcement 4 July 2018, “Watershed Mineral Resources Restatement JORC Code (2012)”.
4. Refer ASX (Tungsten Mining) Announcement 23 June 2016, “Big Hill June 2016 Mineral Resource Update”.
5. Refer ASX (Tungsten Mining) Announcement 30 January 2015, “Kilba Mineral Resource Update”.
6. The Resource table only includes projects where Tungsten Mining holds a 100% interest.

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Tungsten Mining NL – Resource Inventory at 0.05% WO_3 Cut-Off

Class	Tonnes	Grade WO_3%	Metric Tonne Units	Mo (ppm)	Contained Mo Tonnes
Mulgine Trench (October 2014) [1]					
Measured	-	-	-	-	-
Indicated	400,000	0.14	50,000	400	150
Inferred	71,300,000	0.16	11,610,000	250	17,900
Total	71,700,000	0.16	11,660,000	250	18,100
Mulgine Hill (March 2019) [2]					
Measured	-	-	-	-	-
Indicated	8,300,000	0.18	1,490,000	128	1,100
Inferred	4,000,000	0.12	480,000	118	500
Total	12,300,000	0.16	1,970,000	125	1,500
Mt Mulgine (Total)					
Measured	-	-	-	-	-
Indicated	8,700,000	0.18	1,550,000	141	1,200
Inferred	75,300,000	0.16	11,890,000	243	18,300
Total	84,000,000	0.16	13,440,000	232	19,500
Watershed (July 2018) [3]					
Measured	9,500,000	0.16	1,520,000	-	-
Indicated	28,400,000	0.14	3,970,000	-	-
Inferred	11,500,000	0.15	1,720,000	-	-
Total	49,300,000	0.14	7,040,000	-	-
Big Hill (June 2016) [4]					
Measured	-	-	-	-	-
Indicated	15,800,000	0.11	1,680,000	-	-
Inferred	22,700,000	0.09	1,930,000	-	-
Total	38,500,000	0.09	3,620,000	-	-
Kilba (January 2015) [5]					
Measured	-	-	-	-	-
Indicated	5,700,000	0.20	1,150,000	-	-
Inferred	1,500,000	0.15	220,000	-	-
Total	7,200,000	0.19	1,370,000	-	-
Total Resource Inventory					
Measured	9,500,000	0.16	1,520,000	-	-
Indicated	58,600,000	0.14	8,400,000	21	1,200
Inferred	111,000,000	0.14	15,880,000	165	18,300
Total	179,000,000	0.14	25,800,000	109	19,500

Note: Totals may differ from sum of individual numbers as numbers have been rounded in accordance with the Australian JORC code 2012 guidance on Mineral Resource reporting.

1. Refer ASX (HAZ) Announcement 5 November 2014, “Hazelwood continues to increase tungsten resource”.
2. Refer ASX (Tungsten Mining) Announcement 12 April 2019, “Update on Activities at Mt Mulgine”.
3. Refer ASX (Vital Metals) Announcement 4 July 2018, “Watershed Mineral Resources Restatement JORC Code (2012)”.
4. Refer ASX (Tungsten Mining) Announcement 23 June 2016, “Big Hill June 2016 Mineral Resource Update”.
5. Refer ASX (Tungsten Mining) Announcement 30 January 2015, “Kilba Mineral Resource Update”.
6. The Resource table only includes projects where Tungsten Mining holds a 100% interest.

+Rule 5.5

Appendix 5B

Mining exploration entity and oil and gas exploration entity quarterly report

Introduced 01/07/96 Origin Appendix 8 Amended 01/07/97, 01/07/98, 30/09/01, 01/06/10, 17/12/10, 01/05/13, 01/09/16

Name of entity

Tungsten Mining NL

ABN	**Quarter ended ("current quarter")**
67 152 084 403	30 June 2019

Consolidated statement of cash flows		**Current quarter $A'000**	**Year to date (12 months) $A'000**
1.	**Cash flows from operating activities**		
1.1	Receipts from customers	-	45
1.2	Payments for		
	(a) exploration & evaluation	(773)	(4,987)
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(63)	(212)
	(e) administration and corporate costs	(316)	(1,743)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	222	779
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Research and development refunds	149	149
1.8	Other (provide details if material)	-	-
1.9	**Net cash from / (used in) operating activities**	**(781)**	**(5,969)**

2.	**Cash flows from investing activities**		
2.1	Payments to acquire:		
	(a) property, plant and equipment	(120)	(1,840)
	(b) tenements (see item 10)	(1,721)	(1,721)
	(c) investments	-	(15,149)
	(d) other non-current assets	-	-

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Consolidated statement of cash flows		**Current quarter $A'000**	**Year to date (12 months) $A'000**
2.2	Proceeds from the disposal of:		
	(a) property, plant and equipment	-	-
	(b) tenements (see item 10)	-	-
	(c) investments	-	-
	(d) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (security deposit)	(26)	(193)
2.6	**Net cash from / (used in) investing activities** (see note 4)	**(1,867)**	**(18,903)**

3.	**Cash flows from financing activities**		
3.1	Proceeds from issues of shares	-	25,438
3.2	Proceeds from issue of convertible notes	-	-
3.3	Proceeds from exercise of share options	-	422
3.4	Transaction costs related to issues of shares, convertible notes or options	(2)	(1,334)
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings		
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	**Net cash from / (used in) financing activities**	**(2)**	**24,526**

4.	**Net increase / (decrease) in cash and cash equivalents for the period**		
4.1	Cash and cash equivalents at beginning of period	36,434	34,130
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(781)	(5,969)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(1,867)	(18,903)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	(2)	24,526
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	**Cash and cash equivalents at end of period**	**33,784**	**33,784**

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5.	**Reconciliation of cash and cash equivalents** at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	**Current quarter $A'000**	**Previous quarter $A'000**
5.1	Bank balances	2,372	3,629
5.2	Call deposits	31,412	32,805
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	**Cash and cash equivalents at end of quarter (should equal item 4.6 above)**	**33,784**	**36,434**

6.	**Payments to directors of the entity and their associates**	**Current quarter $A'000**
6.1	Aggregate amount of payments to these parties included in item 1.2	129
6.2	Aggregate amount of cash flow from loans to these parties included in item 2.3	-

6.3 Include below any explanation necessary to understand the transactions included in items 6.1 and 6.2

Payments to Directors for fees and consulting.

7.	**Payments to related entities of the entity and their associates**	**Current quarter $A'000**
7.1	Aggregate amount of payments to these parties included in item 1.2	342
7.2	Aggregate amount of cash flow from loans to these parties included in item 2.3	-

7.3 Include below any explanation necessary to understand the transactions included in items 7.1 and 7.2

Payments to associate entity GWR Group Limited of $210K for seconded staff, management and technical services and $321K for exploration and evaluation expenses incurred by GWR Group in relation to the Hatches Creek Project and reimbursable pursuant to the Farm-in Agreement executed during the quarter.

8.	**Financing facilities available** *Add notes as necessary for an understanding of the position*	**Total facility amount at quarter end $A'000**	**Amount drawn at quarter end $A'000**
8.1	Loan facilities	-	-
8.2	Credit standby arrangements	-	-
8.3	Other (please specify)	-	-

8.4 Include below a description of each facility above, including the lender, interest rate and whether it is secured or unsecured. If any additional facilities have been entered into or are proposed to be entered into after quarter end, include details of those facilities as well.

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9.	**Estimated cash outflows for next quarter**	**$A'000**
9.1	Exploration and evaluation	3,000
9.2	Development	-
9.3	Production	-
9.4	Staff costs	160
9.5	Administration and corporate costs	400
9.6	Other	-
9.7	**Total estimated cash outflows** (see note 5)	**3,560**

10.	**Changes in tenements (items 2.1(b) and 2.2(b) above)**	**Tenement reference and location**	**Nature of interest**	**Interest at beginning of quarter**	**Interest at end of quarter**
10.1	Interests in mining tenements and petroleum tenements lapsed, relinquished or reduced				
10.2	Interests in mining tenements and petroleum tenements acquired or increased	**Hatches Creek**			
		EL22912	Beneficial	0%	20%
		EL23463 (see note 6)	Beneficial	0%	20%

Compliance statement

1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.

2 This statement gives a true and fair view of the matters disclosed.

Sign here: ..... Date: 30 July 2019
(Chief Executive Officer)

Print name: Craig Ferrier

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Notes

1. The quarterly report provides a basis for informing the market how the entity's activities have been financed for the past quarter and the effect on its cash position. An entity that wishes to disclose additional information is encouraged to do so, in a note or notes included in or attached to this report.
2. If this quarterly report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, AASB 6: Exploration for and Evaluation of Mineral Resources and AASB 107: Statement of Cash Flows apply to this report. If this quarterly report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. Net cash used in investing activities includes consideration paid and associated transaction costs of $15.15m for the acquisition of the Watershed Project (item 2.1(c)) and $1.72m for acquisition of 20% of the Hatches Creek tenements (item 2.1(b)).
5. The estimated cash outflows for the next quarter include forecast expenditures related to the Pre-feasibility study of the Mt Mulgine Tungsten Project, the timing of which will vary from quarter to quarter.
6. The Company holds a 20% beneficial interest in the Hatches Creek tenements, being EL22912 and EL23463. GWR Group Ltd remains the registered holder pending transfer documentation and registration by the Department of Primary Industry and Resources in the Northern Territory following settlement of the transaction in June.