

**Final Report
to 26th March 2021**

**EL30/2014
Blackwater Rivulet**

Tasmanian Advanced Minerals Pty Ltd

Prepared by: Chris Stuart
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ABSTRACT

- This report covers the sixth year of exploration, during which a significant portion of the licence is now in the process of a mining lease application.

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Location Map North-West Tasmania

Figure 1 Location Plan

1. INTRODUCTION

EL 30/2014, Blackwater Rivulet, is held by Tasmanian Advanced Minerals Pty Ltd (TAM). It is located approximately 40km south-southwest of Smithton (refer to the Location Map below). The Licence was granted on 26 March 2015, and this is the fifth annual report for the period up to the 26 March 2021 anniversary date.

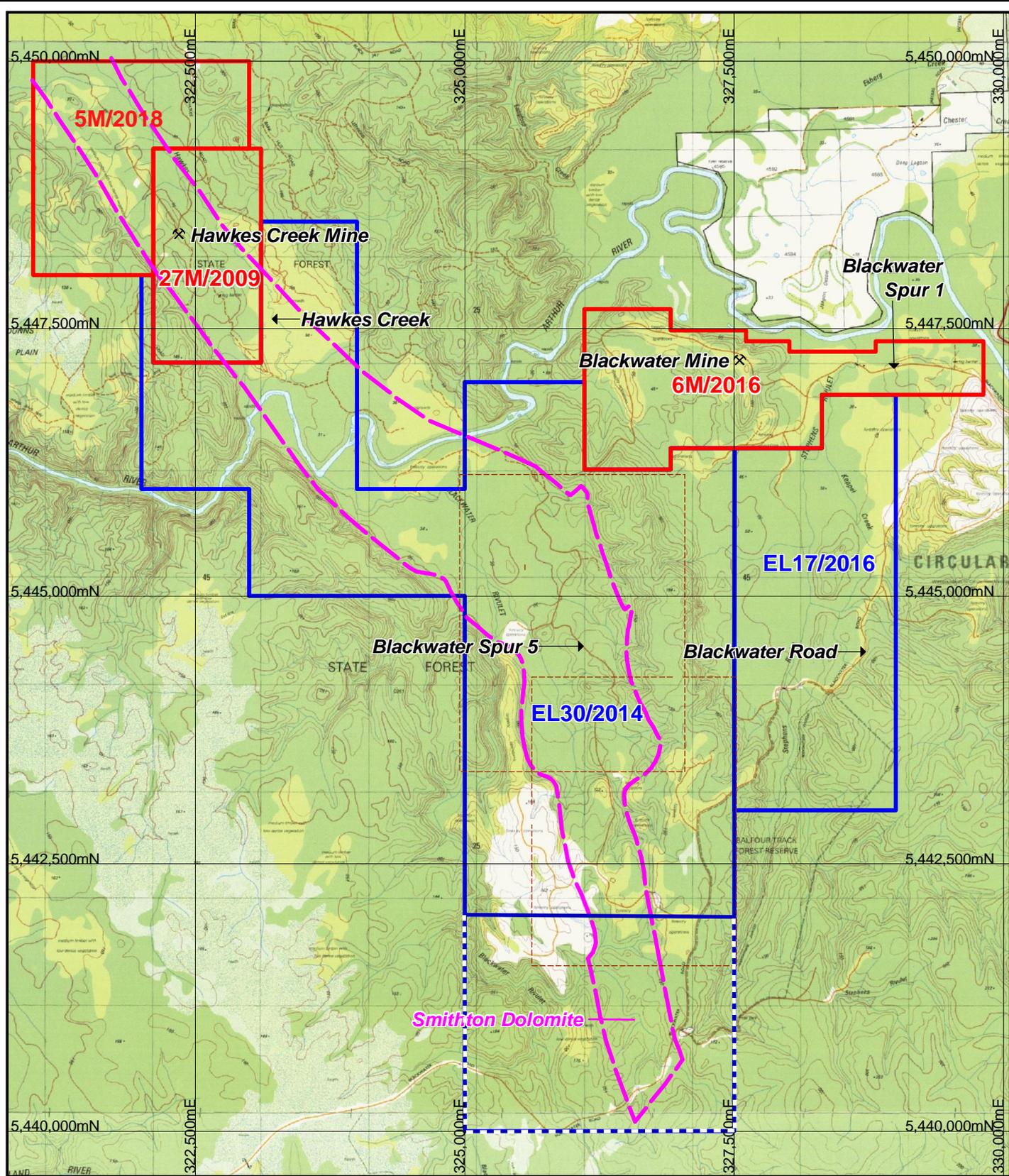
Location Map: North-West Tasmania



TAM is actively mining high purity silica from three locations in Tasmania, from one near Corinna, and from two areas near the Arthur River in northwest Tasmania, Blackwater (6M/2016) and Hawkes Creek (27M/2009). EL30/2014 is in the vicinity of Blackwater Rivulet, and the north-western and north-eastern boundaries of the licence adjoin Hawkes Creek and Blackwater leases respectively (refer to Figure 1). Silica deposits on this licence lie on the same line of strike as those in 27M/2009 and 5M/2018.

The company has several exploration licences. Exploration is being undertaken to increase the total resource available for processing at TAM's Wynyard factory.

Datum used in this report is GDA94.



LEGEND

 Geological boundary inferred from MRT's Sumac 1:25,000 map

TASMANIAN ADVANCED MINERALS P/L
ARTHUR RIVER TENEMENTS AT 01.06.17

ML 27M/2009 and EL 15/2009 - HAWKES CREEK
ML 6M/2016 - BLACKWATER
EL 30/2014 - BLACKWATER RIVULET
EL 17/2016 STEPHENS RIVULET
LOCATION PLAN

Compiled : Chris Stuart/Nic Turner	Drawn : DraftingWorks	Date : 01/06/2017	File : TAM-Tenements.wor
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Scale: 1:50,000	Projection: MGA Zone 55 (GDA94)	Figure No
		1

N. J. Turner, Geologist

2. REVIEW OF PREVIOUS WORK

This licence's first year work consisted of test pitting in various locations along the line of strike in the dolomite band (indicated in Figure 1) between 5,444,000N and 5,442,000N (Stuart, 2016). A line of hills aligned roughly NNW-SSE consisting predominantly of silica flour was identified. The silica flour was generally contaminated with gravels, resulting in high levels of transition metal impurities, in particular iron, chromium and titanium.

Work in the second year involved test pitting and auger drilling in five area along a 4 km interval extending from Spur 5 in the south, northwards along the eastern part of the belt of Smithton Dolomite in a search for silica flour beneath superficial tertiary gravel. No additional silica flour was found. It appears that the gravels in this zone are underlain by weathered dolomite and clay that is at least partly after weathered dolomite (Turner 2017).

Drilling and test pitting in the area referred to as 'Little Hill' (Turner 2017) indicated and estimated resource of 135,000 tonnes of silica.

No on-ground work was conducted reporting year to March 2018, due to timing of works program approval and equipment availability.

Between April 9 and April 11 2018 two bulk samples of 500t each were extracted for processing trials at Wynyard.

In 2019 no on-ground exploration was undertaken. Investigation into the nature of titanium impurities, and their possible processing removal techniques were undertaken. This included engaging UTAS in SEM analysis, LightDeepEarth (Pty) Ltd in QEMSCAN investigation, and Mineral Technologies in process trials (attrition, heavy liquid separation, magnetic separation, hot acid leaching). TAM also undertook its own laboratory scale investigation into magnetic and heavy liquid separation of titanium impurities from the flour.

3. EXPLORATION COMPLETED DURING THE REPORTING PERIOD

No new exploration work was completed. All exploration and process development work was completed in the previous reporting period.

4. DISCUSSION OF RESULTS

No applicable.

5. CONCLUSIONS

Follow the previous year's investigations into titanium mineral impurities and their separation techniques, the resource is now considered commercially and technically viable as a feed component at TAM's Wynyard factory, so a mining lease application over most of the licence area was made.

6. ENVIRONMENT

Nil required.

EXPENDITURE

Nil.

REFERENCES

Turner, N.J. 2017 EL30/2014 Blackwater Rivulet Report to 26th March, 2017.
Stuart, C.C., Rademeyer, M.C. EL30/2014 Blackwater Rivulet Report to 26th March, 2019.