

SUPPLEMENTARY REPORT No.2

PROPOSED ACCESS TRACK EXTENSION

OFF BETTS TRACK, 10 KM SOUTH OF WARATAH

VEGETATION SURVEY AND ASSESSMENT

FOR JAGUAR MINERALS LTD

BY PHILIP MILNER LANDSCAPE CONSULTANT PTY LTD

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1. INTRODUCTION

1.1 Background

This report is the second supplement to the previous Vegetation Survey and Assessment conducted in the field on the 6th and 16th October 2006. This supplementary report should be read in conjunction with that original report and the previous supplementary report.

1.2 Objectives

The objective was to continue the botanical survey of the proposed quad bike route linking the drill sites as described in the original report as SURVEY 4. The foot track has been extended southwards from Drill Site Jag 9, WG11 to the end of the cut track at 5401248N – 368726E.

The survey included the observation of vegetation types, plant communities and specific flora, and any field symptoms of Phytophthora.

1.3 Study Area

Survey 4 extension. Along and adjacent to the track linking the proposed drill sites from a starting point at Drill 9, 5401750N – 368720E to the end of the newly cut track at 5401248N – 368726E.

2. BOTANICAL SURVEY

2.1 Background Research As per main report

2.2 Survey Methodology As per main report

2.3 Assessment of Conservation Significance

No plant community listed under the Threatened Native Vegetation Communities Act of 2006 was observed during this survey.

A 6ha area (approx) of the listed plant community *Eucalyptus brookereana* Wet Forest occurs to the immediate east of the line linking the drill sites but the community was not present in the area actually surveyed.

No plant species listed under the Threatened Species Act was observed during this survey.

2.4 Limitations As per main report

2.5 Survey Results: Vegetation Types, Plant Communities & Species Recorded

SURVEY 4 extension: From DRILL SITE JAG 9 (WGD11) southwards.

Survey carried out on the 27th February 2007.

The track route passes through *Eucalyptus nitida* Open Forest which has a dense shrubby understorey and a similar composition of species to a western wet scrub community in most locations. There are localized occurrences of *Leptospermum lanigerum* dominating the understorey as well as small patches of Buttongrass *Gymnoschoenus sphaerocephalus*.

The community fits within the TasVeg definition of *Eucalyptus nitida* Forest over *Leptospermum*, (WNL).

The open Eucalypt canopy was about 6 – 8 metres in height and the understorey varied from 2 metres high up to 5 metres.

The community observed and its variations are widespread in western Tasmania.

The route did not pass through any *Eucalyptus brookereana* Wet Forest although an area of this community is known and mapped to the immediate east of the survey line. Its proximity was supported by the presence of occasional trees of *Eucalyptus brookereana* within the *Eucalyptus nitida* community.

No vascular plant species listed under the Threatened Species Act was observed along the survey route.

The following species which were recorded during this survey are endemic to Tasmania and are therefore considered to have some conservation significance, *Lomatia polymorpha*, *Telopea truncata* and *Spyridium gunnii*.

IMPACTS

The proposed track on the route surveyed will have no significant impact of the conservation values of the plant community described or the species present.

The plant community and its variations observed during the survey area widespread in western Tasmania and are considered to have good regenerative capacity following minor disturbances.

No symptomatic evidence of the presence of Phytophthora was observed during this survey.

3. Recommendations to Limit Impacts

3.1 Proposed Track to Link Drill Sites

- Limit clearing as much as possible to the minimum required track width only.
- Follow accepted protocols in order to prevent the accidental introduction of Phytophthora to the site.

3.2 Phytophthora Management

As detailed in the main report.

- Accepted protocols should be observed to prevent the introduction of Phytophthora by all personnel, vehicles, machinery and equipment entering the site.
- No gravel or other material from unapproved sources should be brought onto the site.

APPENDIX 1: PLANT COMMUNITIES & SPECIES RECORDED

1. *Eucalyptus nitida* Open Forest over *Leptospermum lanigerum* Understorey

LOCATION: From Drill Site 9, WG11 at REF: 5401750n – 368720E to 5401248N – 368726E (end of track)

TasVeg Code: WNL

This community was also observed along Betts Track and is detailed in the main report.

The community is characterized by the West Coast Peppermint *Eucalyptus nitida* forming an open to very open canopy of 6 – 8 metres in height. The community has a scrubby understorey which varies in density from an almost impenetrable thicket of *Leptospermum*, *Bauera* and *Gahnia*. The *Leptospermum* grows to 5 metres tall in favourable locations where it forms a dense secondary canopy which shades out the ground layer vegetation. The understorey also becomes more open where *Buttongrass* occurs.

This community occurs on the ultramafic soils in the locality.

DOMINANT TREES

<i>Eucalyptus nitida</i>	West Coast Peppermint	common
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OTHER TREES

<i>Eucalyptus brookereana</i>	Brookers Gum	occasional
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TALL SHRUBS

<i>Acacia mucronata</i>	Caterpillar Wattle	occ
<i>Atherosperma moschatum</i>	Sassafras	occ
<i>Banksia marginata</i>	Silver Banksia	comm
<i>Hakea lissosperma</i>	Mountain Needlebush	occ
<i>Leptospermum lanigerum</i>	Woolly Teatree	comm
<i>Phyllocladus asplenifolius</i>	Celery-top Pine	occ

SHRUBS

<i>Aristotelia peduncularis</i>	Heart Berry	uncomm
<i>Bauera rubioides</i>	Wiry Bauera	comm.
<i>Callistemon viridiflorus</i>	Prickly Bottlebrush	occ
<i>Coprosma nitida</i>	Mountain Currant	occ
<i>Hakea epiglottis</i>	Beaked Needlebush	comm.
<i>Leptecophylla juniperina</i> subsp. <i>parvifolia</i>	Pink Mountain Berry	occ
<i>Lomatia polymorpha</i>	Mountain Guitarplant	uncomm
<i>Melaleuca squamea</i>	Swamp Honey-myrtle	occ
<i>Sprengelia incarnata</i>	Swamp Heath	occ
<i>Spyridium gunnii</i>	Forest Dusty-miller	uncomm
<i>Telopea truncata</i>	Waratah	occ

CLIMBERS

<i>Billardiera longiflora</i>	Climbing Blueberry	occ
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GRASSES & GRAMINOIDS

<i>Dryophila cyanocarpa</i>	Turquoise Berry	uncomm
<i>Gahnia grandis</i>	Cutting Grass	comm.
<i>Gymnoschoenus sphaerocephalus</i>	Buttongrass	occ
<i>Lepidosperma sp.</i>	A Sword Sedge	occ

APPENDIX 2: Checklist of Vascular Species Recorded by Family

Dicotyledonae	
CUNONIACEAE	Recorded in Community
<i>Bauera rubioides</i>	WNL
ELAEOCARPACEAE	
<i>Aristotelia peduncularis</i>	WNL
EPACRIDACEAE	
<i>Leptecophylla juniperina</i> subsp <i>parvifolia</i>	WNL
<i>Sprengelia incarnata</i>	WNL
MIMOSACEAE	
<i>Acacia mucronata</i>	WNL
MONIMIACEAE	
<i>Atherosperma moschatum</i>	WNL
MYRTACEAE	
<i>Callistemon viridiflorus</i>	WNL
<i>Eucalyptus brookereana</i>	WNL
<i>Eucalyptus nitida</i>	WNL
<i>Leptospermum lanigerum</i>	WNL
<i>Melaleuca squamea</i>	WNL
PITTOSPORACEAE	
<i>Billardiera longiflora</i>	WNL
PROTEACEAE	
<i>Banksia marginata</i>	WNL
<i>Hakea epiglottis</i>	WNL
<i>Hakea lissosperma</i>	WNL
<i>Lomatia polymorpha</i>	WNL
<i>Telopea truncata</i>	WNL
RHAMNACEAE	
<i>Spyridium gunnii</i>	WNL
RUBIACEAE	
<i>Coprosma nitida</i>	WNL
Monocotyledonae	
CYPERACEAE	
<i>Gahnia grandis</i>	WNL
<i>Gymnoschoenus sphaerocephalus</i>	WNL
<i>Lepidosperma</i> sp.	WNL

LILIACEAE

Dryophila cyanocarpa

WNL

Gymnospermae

PODOCARPACEAE

Phyllocladus asplenifolius

WNL