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## Project Note

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Project	Lake Rowallan Geotechnical Investigations
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Subject	Flora assessment of Lake Rowallan Geotechnical Investigation Site

### Introduction and method

A flora and vegetation assessment of the proposed geotechnical drill site and associated access track was completed in November 2019. The survey targeted the presence of flora species listed as threatened under either the *Threatened Species Protection Act 1995* (TSP Act) or the *Environmental Protection and Biodiversity Conservation Act 2001* (EPBC Act). Vegetation communities present on site were identified and attributed to Tasmanian Vegetation Mapping Units (Harris and Kitchener 2013) and the presence of any vegetation communities list under the Tasmanian *Nature Conservation Act 2002* or the EPBCA were also recorded and mapped. All native species of flora and fauna encountered during the survey were recorded. Nomenclature for flora follows the current census of Tasmanian Vascular Plants (de Salas, M.F. and Baker, M.L. (2018).).

### Vegetation Communities

The study area consisted of a broad flat expanse of eucalypt forest to the west and east of Maggs Road. The forest has had a long history of timber harvesting with many stumps evident. Some of the older areas of forest dominated by *Eucalyptus delegatensis* have failed to regenerate to a full forest cover leaving a patchy mosaic of eucalypt cover.

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### ***Eucalyptus delegatensis* dry forest and woodland (DDE)**

*Eucalyptus delegatensis* dry forest and woodland (DDE) was found over the drill site area. *Eucalyptus delegatensis* was the dominant eucalypt reaching to a height of approximately 25 m (Figure 1). There is the occasional *Acacia dealbata* tree present in the sub canopy. The shrub understorey is sparse with scattered occurrences of *Leptecophylla parvifolia*, *Pultenaea juniperina*, *Lomatia tinctoria*, *Hakea lissosperma* and *Coprosma hirtella*. The ground layer is dominated by *Poa labillardierei* with a sparse cover of herbs including *Acaena novae-zelandiae*, *Ajuga australis*, *Euchiton japonicus*, *Ranunculus lappaceus*, *Hydrocotyle hirta*, *Veronica calycina* and *Viola hederacea*. See Table 1 for the full list of species list recorded over the study area.

### **Species of Conservation Significance**

#### **Threatened Flora species**

No threatened flora species were recorded from area proposed for the geotechnical drill site.

#### **Threatened Fauna**

No threatened fauna or their habitats were recorded from the study area.



**Figure 1. *Eucalyptus delegatensis* dry forest within the survey area**

**Table 1. Species list for *Eucalyptus delegatensis* dry forest and woodland in the Rowallan Option 2 area. i – introduced, e – endemic.**

Species	Common name	Status
<b>Dicotyledonae</b>		
AMARANTHACEAE		
<i>Hydrocotyle hirta</i>	Hairy pennywort	
ASTERACEAE		
<i>Coronidium scorpioides</i>	Curling everlasting	
<i>Euchiton japonicus</i>	Common cottonleaf	
<i>Lagenophora stipitata</i>	Blue bottledaisy	
<i>Senecio gunnii</i>	Mountain fireweed	
<i>Senecio linearifolius</i>	Fireweed groundsel	
<i>Senecio jacobaea</i>	Ragwort	I, D
<i>Hypochaeris radicata</i>	Cat's ear	i
<i>Taraxacum officinale</i>	Common dandelion	i
CARYOPHYLLACEAE		
<i>Scleranthus biflorus</i>	Twinflower knawel	i
<i>Scleranthus brockiei</i>	Mountain knawel	
CLUSIACEAE		
<i>Hypericum japonicum</i>	Matted St Johns wort	e
EPACRIDACEAE		
<i>Leptecophylla parvifolia</i>	Mountain pinkberry	e
ERICACEAE		
<i>Acrothamnus hookeri</i>	Mountain beardheath	
FABACEAE		
<i>Pultenaea juniperina</i>	Prickly beauty	
GENTIANACEAE		
<i>Centaurium erythraea</i>	Common centaury	i
GERANIACEAE		
<i>Geranium potentilloides</i>	Mountain cranesbill	
<i>Geranium brevicaule</i>	Alpine cranesbill	
HALORAGACEAE		
<i>Gonocarpus tetragynus</i>	Common raspwort	
LAMIACEAE		
<i>Ajuga australis</i>	Austral bugle	
MIMOSACEAE		
<i>Acacia dealbata</i>	Silver wattle	
MYRTACEAE		
<i>Eucalyptus dalrympleana</i> subsp. <i>dalrympleana</i>	Mountain whitegum	
<i>Eucalyptus delegatensis</i> subsp. <i>tasmaniensis</i>	Gum-topped stringybark	
ONAGRACEAE		
<i>Epilobium billardioreanum</i>	Robust willowherb	
OXALIDACEAE		

Species	Common name	Status
<i>Oxalis perennans</i>	Grassland woodsorrel	
PROTEACEAE		
<i>Lomatia tinctoria</i>	Guitarplant	e
<i>Hakea lissosperma</i>	Mountain needlebush	
RANUNCULACEAE		
<i>Ranunculus lappaceus</i>	Woodland buttercup	
<i>Clematis clitorioides</i>	Mountain clematis	
ROSACEAE		
<i>Acaena novae-zelandiae</i>	Common buzzy	
RUBIACEAE		
<i>Asperula gunnii</i>	Mountain woodruff	
<i>Coprosma hirtella</i>	Coffeeberry	
<i>Coprosma nitida</i>	Mountain current	
<i>Galium australe</i>	Tangled bedstraw	
<i>Zieria arborescens</i> subsp. <i>arborescens</i>	Stinkwood	
SANTALACEAE		
<i>Leptomeria drupacea</i>	Erect currantbush	
SCROPHULARIACEAE		
<i>Veronica calycina</i>	Hairy speedwell	
STYLIDIACEAE		
<i>Stylidium graminifolium</i>	Narrowleaf triggerplant	
VIOLACEAE		
<i>Viola sieberiana</i>	Tiny violet	
<i>Viola hederacea</i>	Ivy-leaf violet	
WINTERACEAE		
<i>Tasmania lanceolata</i>	Mountain pepper	
<b>Monocotyledonae</b>		
CYPERACEAE		
<i>Carex breviculmis</i>	Shortstem sedge	
<i>Gahnia grandis</i>	Cutting grass	
JUNCACEAE		
<i>Juncus australis</i>	Southern rush	
<i>Luzula flaccida</i>	Dense woodrush	
LILIACEAE		
<i>Dianella tasmanica</i>	Forest flaxlily	
<i>Drymophila cyanocarpa</i>	Turquoise berry	
ORCHIDACEAE		
<i>Caladenia alpina</i>	Pink fingers	
<i>Cyrtostylis reniformis</i>	Small gnat-orchid	
<i>Pterostylis pedunculata</i>	Maroonhood	
POACEAE		
<i>Australopyrum pectinatum</i>	Prickly wheatgrass	e

Species	Common name	Status
<i>Microlaena stipoides</i>	Weeping grass	
<i>Poa gunnii</i>	Gunns snowgrass	
<i>Poa labillardierei</i>	Silver tussockgrass	
<i>Rytidosperma</i> sp.	wallabygrass	
<b>Pteridophyta</b>		
ADIANTACEAE		
<i>Adiantum aethiopicum</i>	Common maidenhair	
BLECHNACEAE		
<i>Blechnum nudum</i>	Fishbone fern	
DENNSTAEDTIACEAE		
<i>Pteridium esculentum</i>	Bracken	
DRYOPTERIDACEAE		
<i>Polystichum proliferum</i>	Mother shieldfern	

## References

de Salas, M.F. and Baker, M.L. (2018). *A Census of the Vascular Plants of Tasmania, including Macquarie Island*. Tasmanian Herbarium, Tasmanian Museum and Art Gallery, [www.tmag.tas.gov.au](http://www.tmag.tas.gov.au).