



Significant Natural Area Assessment			
Project No: 11001/003	Property Name: <i>Mt Burke</i> Site Name: <i>Mt Burke SNA C</i>	Ecologist: <i>Glenn Davis</i> Date: <i>2 September 2010</i>	
Survey Undertaken By: <i>Glenn Davis and Ralph Henderson</i>		Waypoint No (mid-point of area): <i>E: 221 1255</i> <i>N: 561 8191</i>	
LENZ Unit: <i>Q2.2a</i> Ecological District: <i>Wanaka Ecological District</i>		Photo No.(s): <i>See below.</i>	
Topography: <i>Hillslope</i>	Slope: <i>25°</i>	Altitude: <i>400 - 800 masl</i>	Aspect: <i>East</i>
Threatened Environment Status: <i>Critically Underprotected</i>		Area Size (ha): <i>9.92</i>	
Representativeness: Leathwick <i>et al.</i> (2003) indicates this LENZ environment would have been dominated by beech forest of which halls totara would have been a component. In addition it is likely that halls totara may have dominated on some substrates within this LENZ unit, such as the boulder field associated with this community.			
Are there threatened species expected/identified in the survey area? If so, list species and threat status.			
Threatened Species		Threat Status	
<i>Falco novaezealandiae</i> "eastern"		At Risk - Recovering	
Provide onsite description of vegetation: Vegetation type: Woodland dominated by halls totara (<i>Podocarpus cunninghamii</i>) and mountain toatoa (<i>Phyllocladus alpinus</i>). This is based on a brief description in the DoC Conservation Resources Report (CRR).			
Provide onsite description of fauna habitat: The woodland habitat will provide for native avifauna, including the New Zealand eastern falcon. This is based on information from the DoC CRR report.			
Threats/Risks to vegetation and flora/fauna species? (Weeds, predators, current management practices): The area appears to have avoided significant disturbance from Polynesian fires and pastoral activities. The boulder field may have mitigated the spread of fire through the area.			

Rarity:

The threatened environment classification identifies the Q2.2a environment to have 39.92% indigenous vegetation cover remaining with 5.07% protected. The halls totara and mountain toatoa community is unusual and very rare within this LENZ environment and the Wanaka Ecological District.

Area Size and Shape (degree to which the area may be or is becoming self-sustaining):

It is likely that this community has been present for a long period of timing suggesting the community is self-sustaining.

Diversity and Pattern (is there a notable range of species and habitats, aspects, sequences?):

The Halls totara and mountain toatoa woodland is the dominate feature of this site, however, the area will also support a range of native invertebrate and avifauna species.

Distinctiveness/special ecological characteristics (unusual veg. & landform features, distribution limits?):

The Halls totara and mountain toatoa community is a very unusual and distinctive vegetation assemblage.

Connectivity (how is the site connected to surrounding communities/areas?):

The shrubland is surrounded by bracken fern dominated vegetation, although areas of kanuka woodland and regenerating shrubland are located in close proximity.

Sustainability (does the site possess the resilience to maintain its ecological integrity and processes?):

It is likely that this community has been present in this boulder field for a long period of time, suggesting the community is self-sustaining and resilient to disturbance.

Recommendation (Accept/Decline):

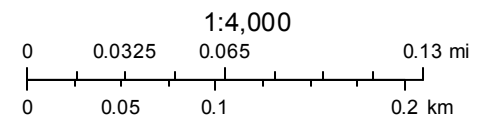
The woodland is an unusual and distinctive example of vegetation that is representative of this environment. Given the high level of representativeness and rarity of this vegetation assemblage, we consider the area should be considered for designation as a SNA.

Figure 1: The area of potential significance - Mt Burke SNA C - B3C.



June 22, 2015

- Proposed Significant Natural Area
- Parcels
- Proposed Significant Natural Area



Please note the area shown is indicative and only for discussion purposes.



Figure 2: The photo was taken approximately 400m from the proposed *Mt Burke SNA C*.