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Significant Natural Area Assessment			
Project No: <i>11011/030</i>	Property Name: <i>Lake McKay Station</i> Site Name: <i>Lake McKay SNA E</i>	Ecologist: <i>Glenn Davis</i> Date: <i>2 February 2012</i>	
Survey Undertaken By: <i>Glenn Davis, Ralph Henderson</i>		Waypoint No (mid-point of survey area): <i>See attached plans for location.</i>	
LENZ Unit: <i>N4.1d</i> Ecological District: <i>Wanaka Ecological District</i>		Photo No.(s): <i>No photos.</i>	
Topography: <i>Adjacent to or located on rocky outcrops</i>	Slope: <i>Moderate to steep</i>	Altitude: <i>approx. 540 m asl</i>	Aspect: <i>South</i>
Threatened Environment Status: <i>Chronically threatened</i>		Area Size (ha): <i>8.76</i>	
Representativeness: <i>Kanuka woodland, which is highly representative of the pre-settlement vegetation.</i>			
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" (eastern NZ Falcon)		At Risk - Recovering	
Provide onsite description of vegetation:			
Vegetation type: <i>Kanuka woodland – kanuka woodland is dominated by kanuka but also includes a diverse range of other shrubland species such as matagouri, native broom, Coprosma propinqua and the lianes: Rubus spp and Muehlenbeckia spp.. Other coprosma species are likely to be present including the threatened Coprosma intertexa.</i>			
Degree of Modification: <i>The area will have been disturbed by fire historically but has not been disturbed for a long period given the presence of a well-developed kanuka cover.</i>			
Overall Health: <i>The area is in excellent overall health.</i>			
Provide onsite description of fauna habitat:			
<i>A range of passerines will be present such as grey warbler, brown creeper, fantail and tomtit. This vegetation is also expected to provide good habitat for a range of lizard species including the threatened jewelled gecko.</i>			

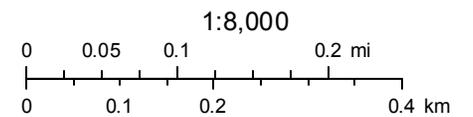
<p>Threats to vegetation and flora/fauna species? (Weeds, predators, current management practices):</p> <p>Existing farming management practices are clearly sympathetic to the kanuka woodland, therefore there is a low risk of intentional disturbance to the woodland. There is however a threat of inadvertent fire and wilding pine infestation.</p>
<p>Rarity:</p> <p>The threatened environment classification identifies the N4.1d environment to have 18% indigenous vegetation cover remaining and 2% under formal protection.</p>
<p>Area Size and Shape (degree to which the area may be or is becoming self-sustaining):</p> <p>SNA E contains smaller areas of woodland compared to other SNAs identified on Lake McKay Station, but are of sufficient size and development to be considered further through the SNA process.</p>
<p>Diversity and Pattern (is there a notable range of species and habitats, aspects, sequences?):</p> <p>The kanuka woodland has a range of shrubland species representative of the area and will also provide habitat for a range of bird and lizard species.</p>
<p>Distinctiveness/special ecological characteristics (unusual veg. & landform features, distribution limits?):</p> <p>The size of the kanuka woodland is distinctive and provides a good representation of the pre-settlement vegetation.</p>
<p>Connectivity (how is the site connected to surrounding communities/areas?):</p> <p>The kanuka is directly connected to grey shrubland on the mid slopes and tall tussock grassland at higher elevations i.e. >1000 m asl.</p>
<p>Sustainability (does the site possess the resilience to maintain its ecological integrity and processes?):</p> <p>SNA E contains smaller areas of woodland compared to other SNAs identified on Lake McKay Station, but they are of sufficient size and development to provide a good representation of the pre-settlement vegetation.</p>
<p>Recommendation (Accept/Decline):</p> <p>Highly representative vegetation in a chronically threatened environment that is self-sustaining and providing excellent habitat for a range of bird, lizard and invertebrate species. We recommend this area is considered as a Significant Indigenous Vegetation and Fauna Habitat.</p>

Figure 1: The area of potential significance - Lake McKay SNA E - E30E_1-2.



October 5, 2014

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



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