

# Protected Area Management Plan

## HIGH CONSERVATION VALUE FOREST AREA

### Protected Area: **Maungatua Galaxias Species Riparian Zones**

#### Including:

- **Dusky Galaxiid (G pullus)**
- **Eldon's Galaxiid (G eldoni)**

#### Reference: **E504**

#### Regulatory Requirements:

Protected endangered native freshwater species, NES-PF.

#### Environmental Values:

1. The Dusky galaxiid is a rare non-migratory species and is 'chronically threatened'. There are three known populations within Wenita's boundaries; Crystals Creek, Munro's Dam and Waitahuna River. Spawning occurs in spring (Oct-Nov) and the fish lay their eggs on/in the vegetation that over hangs the stream. Hatching time is approx one month.
2. The Eldon's galaxiid is a rare non-migratory species and is 'acutely threatened'. There are five known populations within Wenita's boundaries; Meggat Burn, Tokomairiro East and West branches, Post Office Creek and an unnamed tributary of Lake Mahinerangi. Spawning occurs in spring (Oct – Nov) and the fish lay their eggs around the base of cobble-sized rocks, out of the water. Hatching time is approximately one month.

#### Affected Stakeholders:

DOC

Waterways Consulting (Richard Allibone)

#### Management Guidelines:

1. Seek advice of DOC before installing or modifying culverts (LSP).
2. All riparian margin breaches identified during harvest planning to be authorised by the Production Manager and the EMS Co-ordinator prior to operation commencing (LSP).

3. Ensure all harvesting techniques are feasible within habitat protection guidelines (LSP, LSO)
4. Do not damage riparian margins (LSO) and maintain a riparian zone at the time or (re)establishment (FSP).
5. Minimise sediment inputs through harvest management (LSO) and oversowing (FSP).
6. Minimise slash inputs that will impact the stream (Contractor).
7. Follow prescription and BMPs (Contractor).

### **Monitoring Requirements:**

Annual HCVF monitoring

### **References:**

Ross Dungey Consulting [Protected Area Management Plan](#) – July 2008

Ross Dungey Consulting - Draft Report on Otago Non-migratory Galaxiid Surveys (2002 - 2003).

Department of Conservation - Report on Freshwater fish survey in the Lake Mahinerangi, Berwick and Waipori forest areas (1<sup>st</sup> May 2006).

Waterways Consulting – [Fish Survey Results](#) (2016 Maungatua Species Distribution)

Waterways Consulting – [Berwick Fish Survey Results 2018](#)