

# **REPORT**

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**WAIMEA WATER AUGMENTATION  
COMMITTEE/TASMAN DISTRICT  
COUNCIL**

**Waimea Water Augmentation  
Component 4 - Water Allocation  
Issues**

**Report prepared for:**

**WAIMEA WATER AUGMENTATION COMMITTEE/TASMAN DISTRICT  
COUNCIL**

**Report prepared by:**

**LANDCARE RESEARCH**

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# 1 Introduction

In November 2004, Tonkin and Taylor Ltd (T&T) was commissioned by the Waimea Water Augmentation Committee (WWAC) and Tasman District Council (TDC) to undertake Phase 1 of a feasibility study of water storage in the upper parts of the Wairoa/Lee catchments in Tasman District. The specific brief was to address the recurrent water shortages experienced on the Waimea Plains and to investigate enhancing water availability for consumptive and environmental/community/aesthetic benefits downstream on the Waimea Plains and surrounds.

The basic principle behind the project has been to develop an augmentation scheme that would capture river flows (leaving an appropriate residual flow in the river), store the water in a reservoir, and then allow release of that stored water into the river system during periods of high water demand and/or low natural river flows to augment those supplies, either directly or via a recharging of the groundwater system.

The project is multi-disciplinary and Phase 1 (preliminary) feasibility has extended over a three year period. It has four main components:

1. water demand and availability analysis
2. identification of storage options, and water delivery methods and costs
3. environmental assessment, and economic analysis of scenarios with and without augmentation
4. water allocation for optimisation of water use, environmental/community benefits/funding.

This report addresses Component 4 – water allocation for optimisation of water use. It has been prepared by Landcare Research, under the direction of T&T as principal consultant.

Landcare's full report is attached as Appendix 1.

Note that issues related to environmental/community benefits/funding are covered in the Component 3 Report: Environmental and Economic Assessment.

## 2 Applicability

This report has been prepared for the benefit of Waimea Water Augmentation Committee/Tasman District Council with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose without our prior review and agreement.

TONKIN & TAYLOR LTD

Environmental and Engineering Consultants

Authorised for Tonkin & Taylor by:



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John Grimston  
Project Coordinator

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**Appendix 1: Landcare Research: A Review of  
Water Allocation Options for  
the Waimea Water  
Augmentation Project**