

# **Freshwater Improvement Fund**

## **Annual Work Plan for Waimea Water Augmentation Project**

**Undertaken by  
Tasman District Council  
Year 3 – 2021/22 to December 2022**

## Official information and privacy

### Official Information Act 1982

**Important:** Information presented to the Minister for the Environment or the Ministry for the Environment is subject to disclosure under the Official Information Act 1982 (OIA). Certain information may be withheld in accordance with the grounds for withholding information under the OIA. Further information on the OIA is available at [www.ombudsmen.parliament.nz](http://www.ombudsmen.parliament.nz).

Information held by the Minister or the Ministry may have to be released under the OIA in response to a request from a member of the public (or any other body) for that information. If you wish to provide sensitive information to the Minister or the Ministry which you do not want released, it is recommended you consult with the Ministry as to whether the information is necessary for the application, and whether there may be grounds in the OIA for withholding the information. For instance, if release of the information would disclose a trade secret, or be likely to unreasonably prejudice the commercial position of the person who supplied or who is the subject of the information, then there may be grounds to withhold the information. If an OIA request relating to your application is received, the Ministry will endeavour to contact you to discuss it, and what the implications of releasing your information are.

The grounds for withholding information must always be balanced against consideration of public interest that may justify release. Although the Ministry does not give any guarantees as to whether information can be withheld under the OIA, it may be helpful to discuss OIA issues with the Ministry in advance if information provided with an application is sensitive.

### Privacy Act 1993

**Important:** The Ministry for the Environment (Environment House, 23 Kate Sheppard Place, Wellington 6011) may collect, use, hold or disclose personal information for the purpose of assessing eligibility and suitability for Freshwater Improvement Fund funding. Individuals have the right in accordance with the Privacy Act 1993 to request access to and correction of their personal information. While the provision of personal information is not mandatory, failure to provide requested information could lead to a delay in considering the application or a decline of the same.

## Introduction

This Annual Work Plan template is completed by successful applicants to the Freshwater Improvement Fund.

This Annual Work Plan provides a detailed breakdown of the interventions to be undertaken in each year of the project. Annual Work Plans are developed prior to the commencement of each financial year during the life of the project. The Annual Work Plan is to be attached to the Project's Work Programme, which gives an overview of the entire life of the project, including purpose, objectives, benefits and costs.

While completing this template, please be aware that payment of any Freshwater Improvement Fund monies in subsequent Financial Years will be withheld until the Ministry has approved Tasman District Council's Annual Report submitted for this Financial Year.

## Completing the Annual Work Plan template

Complete this Annual Work Plan template by fully completing all sections.

If you have a question about the work plan you can email or phone your assigned analyst at the Ministry.

## When your Annual Work Plan is complete

Email this completed draft work plan to your assigned analyst. They will review it and advise you if there are any issues that need to be addressed, or if there are any outstanding questions.

### Important information

This Annual Work Plan template is pre-populated with some of the information you provided in your original application form and Work Programme. Update this information as required to reflect the current status of your project.

## 1 Project details

*Check that the information below about your project is correct, and update this as required.*

Project name	Waimea Water Augmentation Project
Project purpose	<p>The purpose of the Project is to improve and enhance environmental minimum flows in the Waimea River and support the public good component through the construction of Waimea Community Dam. The dam will provide improved water security of supply, and improved minimum flows in the Waimea River.</p> <p>Tasman District Council (TDC) and Waimea Irrigators Limited (WIL) have set up a joint venture partnership called Waimea Water who will construct and operate the consented Waimea Community Dam.</p> <p>This constructed dam and associated infrastructure will create a ~13 million m<sup>3</sup> water storage reservoir in the upper Lee Valley, on the western flank of the Richmond Range in Tasman District. The Lee River is a tributary of the Wairoa River, which in turn flows to the Waimea River.</p> <p>The dam, reservoir and its associated works require the removal of vegetation (forestry, exotic and native shrublands and forest) and substantial earthworks cross the site.</p> <p>Conditions of resource consents require that a Biodiversity Management Plan (BMP) be prepared and approved prior to the start of construction activities. This FIF funded project will see the implementation of the BMP</p>
For how many years has this project been granted funding, and what year is the project currently in?	The project has been approved for 3.5 years and is in year 3 and this plan covers the 6 months to December 2022 when the Dam should be filled and commissioned.

## 2 Contact details for this project

*Check that the contact information below is correct, and update this as required.*

Recipient's main contact (name and organisation)	Dennis Bush-King	Ministry's main contact	Andrea Gregor, Senior Analyst – Freshwater Investments
Role in the organisation	Group Manager – Environmental Assurance		
Email address	9(2)(a)	Email address	Andrea.gregor@mfe.govt.nz
Phone	9(2)(a) Landline 9(2)(a) Mobile	Phone	N/A Landline 9(2)(a) Mobile
Postal address	Private Bag 4, Richmond, Nelson 7050	Postal address	PO Box 10362 Wellington

Physical address	189 Queen Street, Richmond	Physical address	23 Kate Sheppard Pl, Wellington
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### 3 Project team

*Provide details of your project team and confirmation of their availability for the duration of the project. Please provide details for your project manager in the first row.*

Name	Organisation	Role in project	Phone	Email
Dennis Bush-King	Tasman District Council	Project manager	9(2)(a)	
Mike Scott	Waimea Water Limited	CEO		
Richard Timpany	Waimea Water Limited	Commercial Manager		
Alasdair Mawdsley	Waimea Water Limited	Environmental Manager		
Dave Ashcroft	Waimea Water Limited	CFO		

4 Environmental compliance	
Please complete this section for any statutory permissions or consents that you require in this financial year.	
<p>Do you require any statutory or non-statutory permissions to complete activities set out in this Annual Work Plan?</p> <p><i>For example, resource consents, planning consents, or landowner permissions?</i></p>	<p><input checked="" type="checkbox"/> Yes                      <input type="checkbox"/> No</p> <p><i>If yes, which permission(s) are required? Have you applied for these? If so, when is a decision expected? (If date of decision is unknown, please provide a comment.)</i></p> <p>Resource consents RM140540, RM140542 – RM140559 have been approved and are in place. Authorisations under the Building Act are also in place.</p>

## 5 Project key tasks/activities for this financial year (please indicate financial year)

List the main tasks/activities that will be undertaken during this financial year. The achievement of these tasks and activities will be a primary measure for evaluating the project's success. Note that the costs detailed here will be transferred onto your budget spreadsheet for this financial year.

Objectives	YEAR 3 Project tasks/activities	Deliverables	YEAR 3 Estimated budget		
			FIF contribution	Contribution from external sources (including your organisation)	TOTAL Budget
1 By late 2022, the Waimea Community Dam will be constructed and commissioned to enhance environmental minimum flows.	1.1 Complete construction of dam reservoir, spillway and bridges, and proceed with remediation of construction works and site tidy up for hand over	1.1 Photos of the completed works.  1.1.2 To provide copies of Producer Statements and Certificates confirming completion of construction of dam embankment  1.1.3 Ministry site visit	\$1,000,000	\$58,500,000	\$59,500,000
	1.2 Filling the dam completed by 30 October 2021	1.2.1 To provide evidence of successful dam filling.			
	1.3 Commission Dam	1.3.1 Copy of commissioning report, including relevant producer statement confirming construction completion.			
2 By October 2022, the construction of the Waimea Community Dam will be complete in accordance with the Biodiversity Management Plan	2.1 Continue with carbon offset planting regime	2.1 Project schedule or evidence of carbon credits payment			
	2.2 Monitor high value plant relocation to assess the severity and extent of effects on downstream gorge turf plant communities	2.2 Results of monitoring following plant relocation and confirmation from the Bio Land Use diversity Technical Advisory Group that Biodiversity Management Plan is being complied with.			



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	2.3 Monitor and report on weed and animal control programme designed to protect, restore and enhance alluvial and riparian forest downstream of the dam.	2.3 Copy of weed & animal control contract, and confirmation from the Biodiversity Technical Advisory Group that Biodiversity Management Plan is being complied with			
	2.4 Complete planting program at Rough Island and monitor restoration	2.4 Copy of monitoring report and confirmation from the Biodiversity Technical Advisory Group that Biodiversity Management Plan is being complied with			
	2.5 Start 'trap and transfer' programme for adult out-migrating eels	2.5.1 Proof of engagement of contactor and evidence of commencement of transfer of adult out-migrating eels			
3 Other/Miscellaneous	3.1 Council to require Annual Statement of Intent from Waimea Water Limited and conduct regular governance reviews of the project	3.1.1 Copy of Annual Statement of Intent and copies of minutes of governance meetings			
	3.2 Report to Council on dam progress	3.2.1 Copy of reports submitted to Tasman District Council by Waimea Water Ltd			
	3.3 Undertake annual independent financial audit	3.3.1 Annual Report for the year 2021/22 showing results of financial audit – due 31 October 2022			
	3.4 Complete Ministry reporting	3.4.1 Annual reports, payment claim form, budget tracking spreadsheet and corresponding tax invoice			
	Total Estimated Budget for year 3		\$1,000,000	\$58,500,000	\$59,500,000

#### 4 Funding Information for Year 3

Please provide details of all organisations that are contributing cash to the project (this excludes in-kind costs such as donations of time, equipment etc for this financial year). Please identify whether these contributions are confirmed or pending. If pending please provide an estimation on when you expect these funds to be confirmed.

Funding parties	Contribution	Funding confirmed or pending
Your organisation's cash contribution to the project for this financial year	\$26,300,000	Confirmed
Waimea Irrigators Limited	9(2)(b)(ii)	Confirmed
Crown Irrigation Investment Limited (loan and grant)	9(2)(b)(ii)	Confirmed
FIF contribution (approved amount)	\$1,000,000	
Total cost of project for this financial year	\$59,500,000	
FIF % of total project costs	(for office use only)	

#### 5 Partnership and collaboration (non-funding)

Please provide details of any other organisations or individuals that you are partnering with to deliver the project, though are not contributing cash.

Organisation name	Contact details <i>Name, phone number and email</i>	Details of involvement or collaboration <i>For example, contribution of funding or resources, involvement in decision-making, responsibility for delivering a component of the project.</i>
Waimea Water Limited	Mike Scott 9(2)(a)	Council controlled organisation to build, own and operate the dam
Ngāti Koata Iwi Trust	Hemi Toia Chief Executive 9(2)(a)	Contributing land to the project
Department of Conservation	Lionel Solly 9(2)(a)	Biodiversity offset works, including pest management activity
Fulton Hogan Taylors Joint Venture	Jim Galloway Project Manager 9(2)(a)	Construct the dam, site clearance, access, roading
Damwatch Engineering	Peter Amos 9(2)(a)	Construction related professional services, ECI, design
Rawlinsons	Lawrie Saegers 9(2)(a)	Quantity surveyors providing construction related quantity surveying services

Waimea Irrigators Limited		Joint Shareholder of Waimea Water Limited
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## 6 Consultant and/or sub-contractor details (if applicable)

*Provide information about any third party you intend to sub-contract to undertake work on the project. The Ministry may request evidence of all contracts (and associated procurement process followed, for each sub-contractor) as part of the milestone reporting requirements. Please refer to the Guide for Grantees for guidance on the use of sub-contractors*

<b>Company name of consultant/sub-contractor</b> <i>Please include trading name if different</i>	<b>Work to be undertaken in the delivery of the project</b>	<b>Value of contract</b> <i>Total estimated value of contract, excluding GST</i>	<b>Potential conflict of interest</b> <i>(eg, financial interest in sub-contractor's company, commercial or business relationship with sub-contractor, friend or relative working for sub-contractor, etc)</i>
Fulton Hogan Taylors Joint Venture	Construct the dam	9(2)(b)(ii)	nil
Damwatch Engineering	Construction related professional services, ECI, design		nil
Rawlinsons et al	Quantity surveyors providing construction related quantity surveying services		nil

## 7 Risk management

Provide a brief description of the major risks to the project achieving the tasks and activities in this financial year. Include consideration of potential barriers that may pose a risk to the success of the project. Where possible give an indication of the likelihood and significance of the risk and any mitigation strategies to be included in the project.

Potential risk	Level of risk	Impact on project	Consequence on project	Strategy to mitigate
Identify the potential risk to your project (for example, project not completed on time, unpredictable events such as weather, lack of resource commitment, time and cost estimates too optimistic, unexpected budget cuts, stakeholders changing requirements after the project has started, risks to the industry or sector to which the organisation belongs).	Low, medium or high.	Describe the impact the risk would have on the project (for example, misunderstandings, duplication of work, incomplete work).	Minor, moderate or severe.	Describe the process you will use to minimise and manage the risk (for example, project manager monitors functional roles to ensure enough time is allocated to complete each task/activity and the project as a whole).
Cost Escalation for the Project	Medium	<p>The construction contract for the Project was negotiated by the Council and Waimea Irrigators Limited (WIL) with Fulton Hogan/ Taylors Joint Venture. The construction contract final estimate was 9(2)(b)(ii)</p> <p>Since construction began a revised budget has taken the possible costs to 9(2)(b)(ii) due predominately to the encountered conditions and improved Dam resilience.</p> <p>It should be noted that the FIF is not expected to contribute to this over-run and every effort is being made to minimise any increase over the original contract price.</p>	Severe	<p>WWL is committed to constructing and operating the dam as efficiently as reasonably possible with respect to cost and schedule, recognising the overarching principles that the dam shall be safe, reliable and sustainable.</p> <p>WWL will continue to operate a robust risk management system based on NZTA's Z44 system and guidelines<sup>4</sup>.</p> <p>The risk register is continuously updated as risks are identified and closed, and open or live risks are regularly reviewed and updated - including for cost and schedule impacts. Mitigation plans are developed and monitored for high and very high risks. Risks, particularly pertaining to the geology, will persist throughout the period of construction and will reduce as the</p>

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				<p>build progresses and moves above ground.</p> <p>Currently anticipated costs of risks and opportunities lead to a revised forecast cost estimate of 9(2)(b)(ii) excluding COVID-19 costs. The risks are also expected to delay completion by between two and four months so that reservoir filling is likely to commence in 2022.</p>
Construction and Infrastructure Risks for the Project	Medium	<p>The construction contract for the Project will involve risk for the Project including:</p> <ul style="list-style-type: none"> <li>• delays occurring at the start of construction</li> <li>• the ground conditions and dewatering solutions presenting challenges</li> <li>• poor contractor or sub-contractor execution</li> <li>• unforeseen contractor project costs</li> <li>• contractors or sub-contractors experiencing financial distress</li> <li>• third party damage/interference affecting the Project infrastructure</li> <li>• a cost risk in ensuring the Project is completed within budget amounts, including escalation of M&amp;E costs depending of timing of plant entering New Zealand</li> </ul>	Moderate – high proportion of costs have been fixed but some risk is still attached to other project variables	<p>Performance: The Project has endeavoured to mitigate performance risks where possible by using competent design engineers, peer reviews and engaging experts who have successfully designed other dams. The construction contract contains the appropriate warranties and contractor performance bonds. The Dam has been designed to requirements set out by the New Zealand Society of Large Dams (NZSOLD), the guidelines specifying dam construction in New Zealand. An Engineer to the Contract has been appointed and has an independent role to ensure the contractor and the designer perform to the required standards.</p> <p>Geotechnical: The Project has commissioned site sampling, geotechnical assessments and</p>

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		<ul style="list-style-type: none"> <li>design risks relating to the performance of the works undertaken and the design of the Dam (both during construction and post-construction).</li> </ul>		modelling which has been peer reviewed.
Dam Design in Relation to Over-topping	Low	All dams have the potential to be overtopped during an extraordinarily extreme weather event in the dam catchment.	Severe  (Although, in addition to the details provided in the column to the right, this dam is comparatively resilient if overtopping was to occur. For example, many dams in New Zealand have power houses and expensive machinery below the dam.)	<p>This dam has both a conservative freeboard designed to cope with simultaneous large waves and high water levels.</p> <p>The dam has also been designed with an open flow spillway so that neither operator intervention nor mechanical/electrical activation is required to spill water. The spillway by its very nature passes increasingly high water volumes as the reservoir level rises. This is a conservative dam design.</p>

## 8 Conflicts of interest

*Describe any known conflicts of interest (actual or potential) that may arise during this financial year and steps you will take to manage them.*

None known

## Declaration

*This declaration must be completed by a person with the organisation's signing authority.*

As a duly authorised representative of the organisation:

- I declare that to the best of my knowledge, the information contained in all sections of this Annual Work Plan, or supplied by us in support of our Annual Work Plan is complete, true and correct.
- I declare that I have the authority to sign this Annual Work Plan and to provide this information.
- I understand that information presented to the Minister for the Environment and Ministry for the Environment is subject to disclosure under the Official Information Act 1982.

**Name**

Dennis Bush-King

**Position**

Group Manager - Environmental Assurance

**Signature**

*By typing your name in the space provided you are electronically signing this Annual Work Plan.*

*Dennis Bush-King*

Date: 19 January 2022