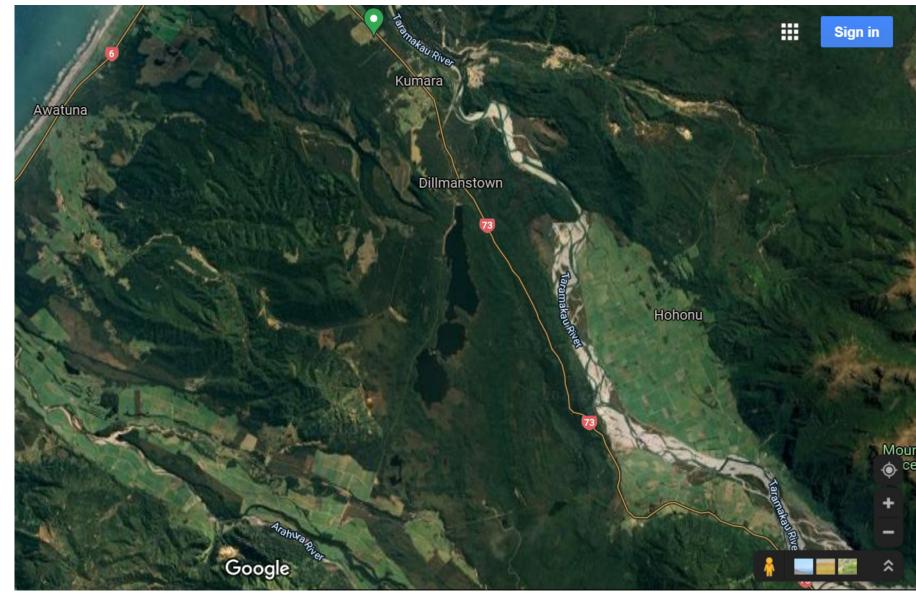
Introductions

- Consenting Project Team
- Local Team Local Assets Lead by Tim Brownlee
- Trustpower/Manawa Energy/ Future Changes

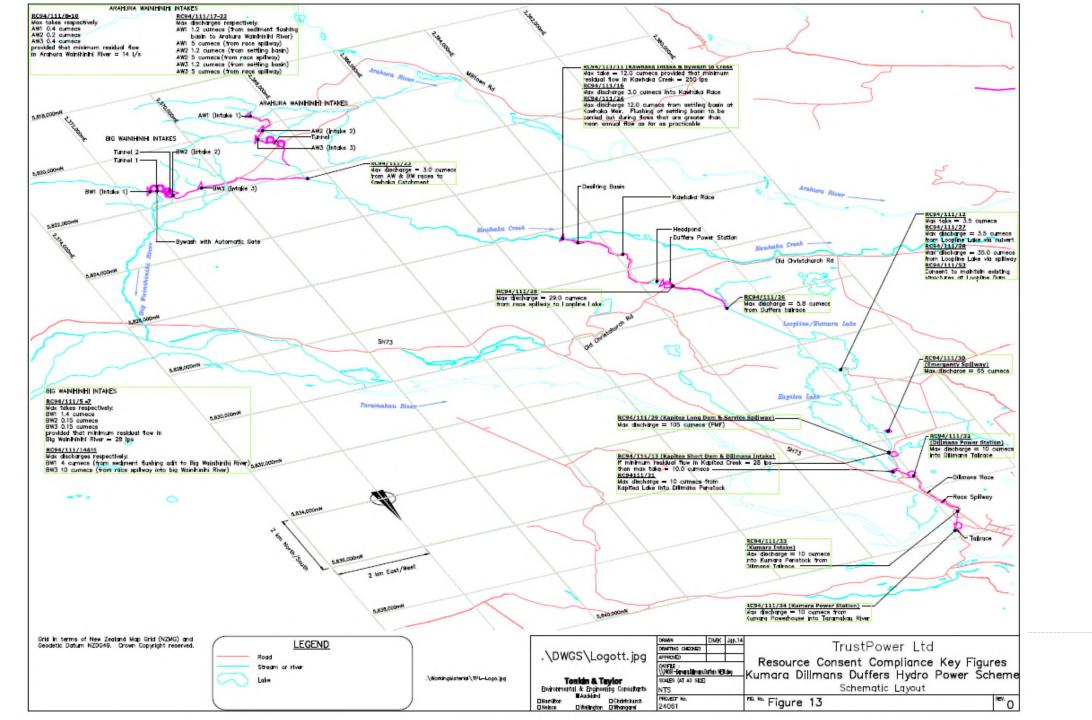




Scheme Overview









Dam Safety Upgades – Seismic Strengthening

Loopline Dam

• Consenting Now – Construction likely next summer (2022-2023)

Future plans – still scoping

- Long Dam and Kapitea Spillway strengthen and upgrade
- Short dam strengthen dam toe, strengthen intake platforms
- Canal strengthening



Loopline Dam Upgrade - Overview

Key outcomes of the works are to:

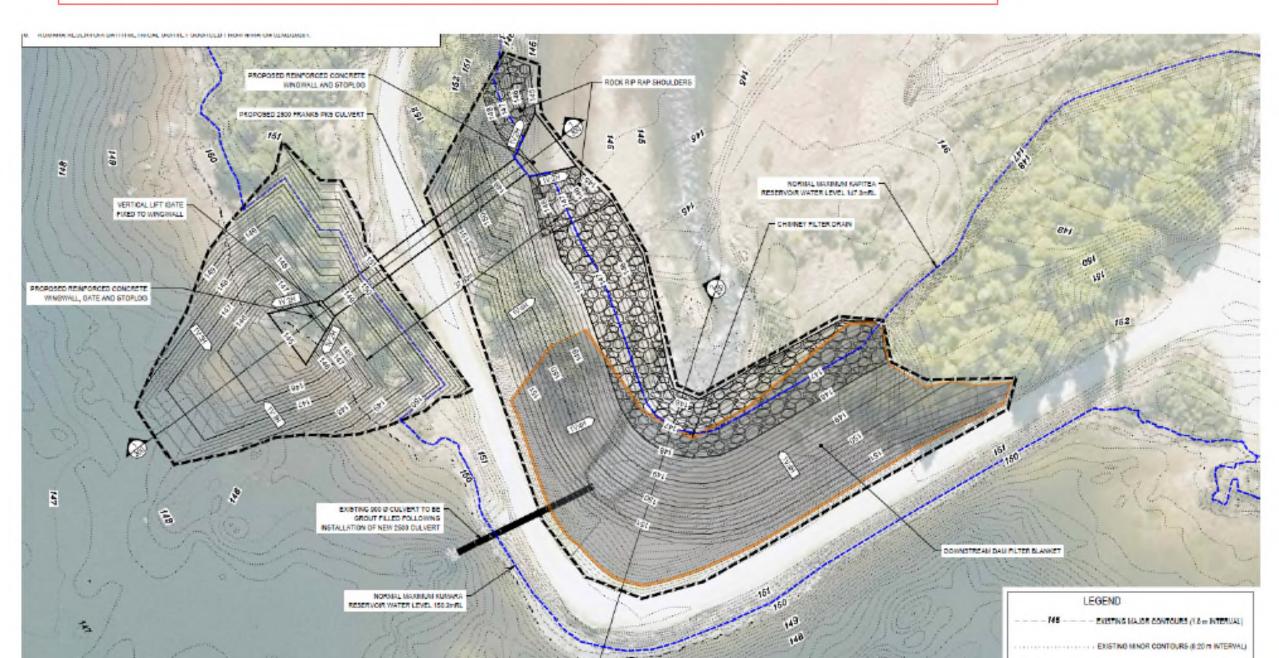
- improve the seismic safety performance of the embankment dam itself.
- provide increased and controlled hydraulic connectivity between the Kumara and Kapitea reservoirs for peak generation capacity.
- provide flow control and buffer storage during the upgrade to the Kapitea Primary Spillway and Kapitea Short Dam projects.

Proposal:

- Install buttress on downstream side of the dam to strengthen the dam
- The existing 900 mm diameter pipe through the embankment will be replaced by a 2.5 m diameter pipe on the true left dam abutment.
- A gate valve will be installed on the upstream pipe to allow flows through the pipe to be controlled including during upgrade works to Kapitea dams and structures, as well as post construction to enhance generation management.



LOOPLINE - CONCEPT DESIGN FOOTPRINT



Work Underway – Technical Input

• Engineering – design and construction underway

• Environmental Technical assessments

- Terrestrial/Wetland ecology
 Aquatic ecology
 Archaeology
 Hydrology

Next Steps - Consultation – External Parties

• DoC

- Land owners construction effects if any
- Tangata Whenua
- Cycleway Committee notified today
- ???

