



# **HWP WAITOHI IRRIGATION AND HYDRO SCHEME**

## **Part A - Resource Consent Application**

Prepared for  
Hurunui Water Project  
by  
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# PART A: RESOURCE CONSENT APPLICATION

To: Consents Manager  
Address: Environment Canterbury  
PO Box 345  
CHRISTCHURCH 8140

## Consent Application Form

**Applicant's Name:** Hurunui Water Project Limited (*HWP*)

The Hurunui Water Project Ltd (HWP) propose to develop a series of four water storage dams on the Waitohi River to provide for a community irrigation scheme to irrigate 58,500 ha of land in the Hurunui, Waipara and Kowai catchments.

A combination of run-of-river and stored water is required to meet irrigation demand in these areas. Run-of-river water taken directly from the Hurunui River will be the predominant supply of water to the distribution network at times when it is available. When this water is not available, water stored in the Waitohi River catchment will be released from the four dams to meet the irrigation demand and provide hydro-electricity generation capability.

### **Location of proposed activity is as follows:**

The proposed scheme is located on the Waitohi River and Hurunui Rivers as follows (Refer to Figure 1 in accompanying AEE):

- The proposed scheme includes four new permanent intake structures, and one temporary:
  - Two new intake structures are proposed on the Hurunui River: one is to be constructed in Stage 1 on the true-right bank, immediately downstream of the Mandamus confluence – the will be either 305 m RL or 280 m RL depending on the final distribution design; a second is to be constructed in Stage 2 on the true-right bank approximately 1.5 km downstream of the confluence with Surveyors Stream (at 383.5 m RL) where the river takes a 90 degree turn;
  - The current Amuri scheme intake will also be upgraded in Stage 2 – this upgrade is not part of these consent applications.
  - Three new intake structures on the Waitohi River: one is a temporary structure to be constructed in Stage 1 at the point where the river meets the main distribution canal; the other two are to be constructed in Stage 2 to replace the temporary structure (which will be removed) and will be comprised of an intake structure at the top and bottom of the Lower Gorge 1 Dam.
- The proposed scheme includes four water storage dams on the Waitohi River as follows:
  - Hurricane Gully Dam a 105 m high x 429 m wide dam with crest at 505 m RL on the Waitohi River, immediately downstream of the confluence of the Waitohi River and Hurricane Gully;

- Seven Hills Dam a 46 m high x 150 m wide dam with crest at 405 m RL on the Waitohi River;
- Inches Road Dam a 31 m high x 245 m wide dam with crest at 375 m RL on the Waitohi River; and
- Lower Gorge 1 Dam a 21 m high x 71 m wide dam with crest at 345 m RL on the Waitohi River.

**In summary, the HWP requires the following resource consents (under the operative Natural Resources Regional Plan (NRRP) and Proposed Hurunui Waiau River Regional Plan PHWRRP):**

To take water from Hurunui and Waitohi Rivers A and B Block Allocation (Restricted Discretionary Activity (NRRP Rule WQN6); Restricted Discretionary Activity (PHWRRP Rule 2.3))

To take water from Hurunui and Waitohi Rivers C Block Allocation (Non-complying Activity (NRRP Rule WQN8); Discretionary Activity (PHWRRP Rule 3.2))

To take water from irrigation canals/water storage facilities (Permitted Activity (NRRP Rule WQN3); Permitted Activity (PHWRRP Rule 4.1))

To dam main stem of Waitohi River (Discretionary Activity (NRRP Rule WQN25); Restricted Discretionary Activity (PHWRRP Rule 2.4))

To discharge water (Discretionary Activity (NRRP Rule WQL48); Restricted Discretionary Activity (Hurunui and Waitohi Rivers A and B Block Allocation) (PHWRRP Rule 2.3); Discretionary Activity (Hurunui and Waitohi Rivers C Block Allocation PHWRRP Rule 3.1))

To divert water from Hurunui and Waitohi Rivers A and B Block Allocation (Restricted Discretionary Activity (NRRP Rule WQN6); Restricted Discretionary Activity (PHWRRP Rule 2.3))

To divert water from Hurunui and Waitohi Rivers C Block Allocation (Non-complying Activity (NRRP Rule WQN8) Discretionary Activity (PHWRRP Rule 3.2))

To use water for hydro generation (Restricted Discretionary Activity (NRRP Rule WQN17); (Restricted Discretionary Activity to Hurunui and Waitohi Rivers A and B Block Allocation (PHWRRP Rule 2.3); Discretionary to Hurunui and Waitohi Rivers C Block Allocation (PHWRRP Rule 3.2))

To use water for irrigation (Permitted Activity (NRRP Rule WQN15))

Please refer to **Error! Reference source not found.** in the attached AEE Report.

**The following additional resource consents are required for the proposed activity and will be prepared and applied for subsequent to obtaining consent for the above activities:**

Phase 2 regional and district resource consents to relating to the following activities:

- Site investigations
- Construction of access roads / working compound / utilities
- Construction of dams and abutments
- Construction of intake structures, canals/tunnels & associated water distribution infrastructure
- Construction of hydro generation infrastructure and distribution lines
- Mitigation works including beaches, access ramps, vegetation planting

**Accompanying this application, in accordance with the fourth schedule of the Resource Management Act 1991, is an assessment of environmental effects (AEE) in the detail that**

**corresponds with the scale and significance of the effects that the proposed activity may have on the environment.**

Resource consents are being sought for a duration of **35 years**.

**Office Contact Details**

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C A Hansen

Authorised Agent for the Hurunui Water Project Limited