

Attachment 1 – Activity Status of CPWES Resource Consents Sought from Environment Canterbury

All the text used in this section, with the exception of the additions, deletions and reformatting noted below, is as per the text used to publicly notify the resource consents. Sections A and B include those resource consents publicly notified in June 2006 and May 2007 respectively.

Additional wording, deletions and reformatting has been included as follows:

- Where the applications lodged in May 2007 (Section B) have modified earlier applications (Section A), I have made additions and deletions to Section A as appropriate.
- I have deleted references to resource consents no longer being sought at this point in time.
- I have made minor modifications to match the changes proposed to wording as presented by Mr Cliff Tipler.
- I have reformatted the layout of some of the text. In particular I have transferred the lists of consents into tables, and added additional wording in the form of the “Type” and “Activity Status” columns in those tables. Abbreviations used in the additional text are as follows:
TRP – Transitional Regional Plan
PNRRP – Proposed Natural Resources Regional Plan
WRRP – Waimakariri River Regional Plan
NWCO – Water Conservation (Rakaia River) Order

Additions are made with underline, deletions are made with ~~strikethrough~~.

Note: With respect to the identification of activity status, where Section 77C of the RMA dictates that resource consent is required under the TRP, but consent is required as a discretionary or non-complying activity under a proposed plan, I have not found the need to identify that Section 77C applies as the activity status would not become more stringent.

Section A – Resource Consents Publicly Notified in June 2006

Purpose:

The following applications relate to activities associated with the construction and operation of a proposed irrigation and water enhancement scheme on the Central Canterbury Plains between the Rakaia River and Waimakariri River. The proposal involves the abstraction of water from the Rakaia and Waimakariri Rivers, and the use of that water for irrigation of approximately 60,000 hectares of land. Construction and maintenance activities will be required to install, use and maintain water intakes on the Rakaia River and Waimakariri River; to construct, use and maintain a dam and reservoir in the Waianiwi Valley for water storage; and to construct, use and maintain a water race distribution network. The application to take water from the Rakaia River is jointly made by Central Plains Water Trust and Ashburton Community Water Trust.

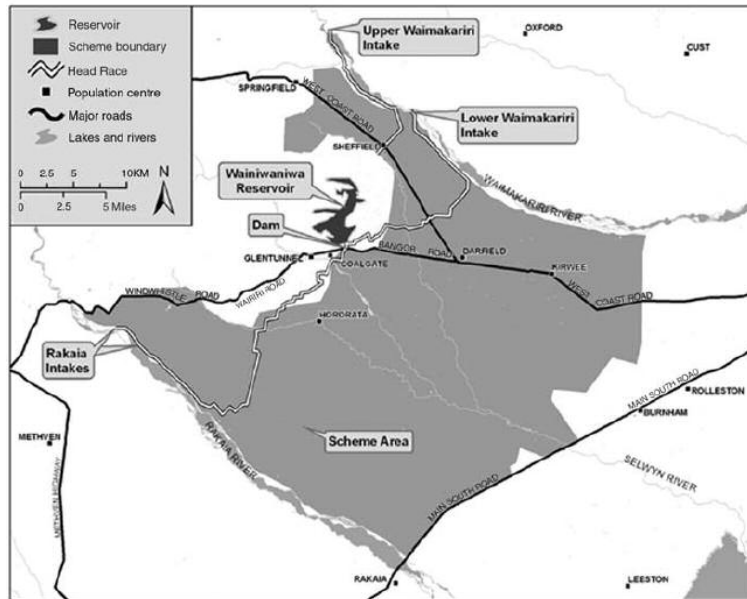
For the purpose of these applications the following definitions apply:

‘The Scheme Area’ refers to the area of land between the Rakaia and Waimakariri Rivers and west of SH1, as shown on Map 1.

‘The Central Plains Water Enhancement Scheme’ refers to the entire infrastructure associated with the taking and distribution of water.

‘Distribution network’ refers to the distribution of water via canals and races for irrigation purposes.

MAP 1



Rakaia River

The following applications have been lodged for activities in and adjacent to the Rakaia River. These applications relate to the following areas, which are defined for the purposes of this advertisement as the **Rakaia water intake system** and the **Ashburton Community Water Trust intake system**.

Rakaia water intake system - the proposed Rakaia River intake and headworks structures will form part of the headrace canal in and adjacent to the bed of the Rakaia River on the true left (northern) bank of the Rakaia River in an area approximately 8 to 10 kilometres downstream of the Rakaia Gorge Bridge at the following locations:

1. Intake structure in the bed of the Rakaia River at about map reference NZMS 260 K36:078-387.
2. Sediment trap at about map reference NZMS 260 K36:081-384.
3. Flow control gate at about map reference NZMS 260 K36:082-381.
4. Fish screen and bypass channel at about map reference NZMS 260 K36:083-379.

Ashburton Community Water Trust water intake system - the proposed Ashburton Community Water Trust Rakaia River intake and headworks structures will be located in and adjacent to the bed of the Rakaia River on the true right (southern) bank of the Rakaia River in an area approximately 6 kilometres downstream of the Rakaia Gorge Bridge at the following location:

1. Intake structure in the bed of the Rakaia River at about map reference NZMS 260 K36: 050-393.

Table 1: Rakaia River

Reference	Type	Description	Activity Status
CRC061863	Land Use Consent	To place structures in the bed of the Rakaia River and to excavate, disturb and deposit bed material, remove and plant vegetation to facilitate the construction, operation and maintenance of the Rakaia water intake system. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule BRL8 – discretionary activity

Table 1: Rakaia River

Reference	Type	Description	Activity Status
CRC061822	Land Use Consent	To excavate and disturb land, deposit material and remove and plant vegetation, in the riparian margin of the Rakaia River, associated with the construction and maintenance of the Rakaia water intake system. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule WQL34 – restricted discretionary activity PNRRP, Rule BRL8 – discretionary activity
CRC061873	Discharge Permit	To discharge water and contaminants, being principally sediment, to the Rakaia River from the construction, operation and maintenance of the Rakaia water intake system. A consent with a duration of 35 years is sought.	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity
CRC061763	Discharge Permit	To discharge contaminants, principally dust, to air from any construction or maintenance activity associated with the Rakaia water intake system. A consent with a duration of 35 years is sought.	TRP, Clean Air Act 1972 – discretionary activity PNRRP, Rule AQL57 – discretionary activity
CRC061940	Water Permit	To divert water within the Rakaia River towards the Rakaia water intake system to enable the taking of water from the Rakaia River for irrigation and ancillary purposes, and for sediment sluicing and fish pass purposes within the Rakaia water intake system and then to divert water through the headrace canal and distribution network as described in schedules A.3 and A.4, which includes water being diverted within the headrace canal and distribution network both above and below ground level. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Diversion and Discharge of Natural Water – discretionary activity PNRRP, Rule WQN41 - discretionary activity
CRC021091	Water Permit	To take water from the Rakaia River at a maximum combined rate of 40 cubic metres per second via either the Rakaia water intake system, or the Ashburton Community Trust water intake system, for the purposes of irrigation of land within the Central Plains Scheme Area and/or Mid-Canterbury, for water storage, and for ancillary purposes associated with the operation of the Central Plains Water Enhancement Scheme and the Ashburton Community Water Trust Scheme. The combined take may include water allocated to another water user that is not being taken, or any water in a higher priority band that has not been allocated, provided that the water allocation rules in the National Water Conservation (Rakaia River) Order are complied with. A consent with a duration of 35 years is sought. Note: Application CRC021091 is the only application jointly made by Central Plains Water Trust and Ashburton Community Water Trust.	TRP, General Authorisation for the Abstraction of Natural Water – discretionary activity PNRRP or Section 77C of the RMA - discretionary [Note: NWCO does not prescribe an activity status]

Table 1: Rakaia River

Reference	Type	Description	Activity Status
CRC061973	Water Permit	To use water from the Rakaia River at a maximum rate of 40 cubic metres per second via the Rakaia water intake system, for the purposes of irrigating up to 60,000 hectares of land within the Scheme Area, for water storage, and for ancillary purposes associated with the operation of the Central Plains Water Enhancement Scheme. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Abstraction of Natural Water – discretionary activity PNRRP, Rule WQN26 – discretionary activity
CRC061980	Discharge Permit	To discharge water that has been diverted, but not taken, back into the Rakaia River, via sediment sluicing, fish pass and bypass channels that form part of the Rakaia water intake system. A consent with a duration of 35 years is sought.	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity

Waimakariri River

The following applications have been lodged to carry out activities in and adjacent to the Waimakariri River. These applications relate to the following areas, which are defined for the purposes of this advertisement as the **Upper Waimakariri water intake system** and the **Lower Waimakariri water intake system**.

Upper Waimakariri water intake system - is proposed to be located in the bed and on the true right (southern) bank of the Waimakariri River in an area approximately 1 to 3 kilometres upstream of the confluence of the Kowai and Waimakariri Rivers.

1. Intake structure in the bed of the Waimakariri River at about map reference NZMS 260 L35: 255-667.
2. Sediment trap at about map reference NZMS 260 L35: 259-662.
3. Flow control gate at about map reference NZMS 260 L35: 082-381.
4. Fish screen and bypass channel at about map reference NZMS 260 L35:261-658.

Lower Waimakariri water intake system - is proposed to be located in the bed and on the true right (southern) bank of the Waimakariri River at the Waimakariri Gorge Bridge and in an area approximately 1.5 kilometres downstream of the Waimakariri Gorge Bridge.

1. Intake structures in the bed of the Waimakariri River at about map reference NZMS 260 L35: 328-603.
2. Sediment trap at about map reference NZMS 260 L35: 334-592.
3. Flow control gate at about map reference NZMS 260 L35: 334-588.
4. Fish screen and bypass channel at about map reference NZMS 260 L35:336-583.

Table 2: Waimakariri River

Reference	Type	Description	Activity Status
CRC061866	Land Use Consent	To place structures in the bed of the Waimakariri River and to excavate, disturb and deposit bed material, remove and plant vegetation to facilitate the construction, operation and maintenance of the upper Waimakariri water intake system. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity WRRP, Rule 7.4 – discretionary activity

Table 2: Waimakariri River

Reference	Type	Description	Activity Status
CRC061868	Land Use Consent	To place structures in the bed of the Waimakariri River and to excavate, disturb and deposit bed material, remove and plant vegetation to facilitate the construction, operation and maintenance of the lower Waimakariri water intake system. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity WRRP, Rule 7.4 – discretionary activity
CRC061842	Land Use Consent	To excavate and disturb land, deposit material and remove and plant vegetation, in the riparian margin of the Waimakariri River, associated with any construction, operational or maintenance activities in the area of the upper Waimakariri water intake system. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule WQL34 – restricted discretionary activity PNRRP, Rule BRL8 – discretionary activity
CRC061843	Land Use Consent	To excavate and disturb land, deposit material and remove and plant vegetation, in the riparian margin of the Waimakariri River, associated with any construction, operational or maintenance activities in the area of the lower Waimakariri water intake system. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule WQL34 – restricted discretionary activity PNRRP, Rule BRL8 – discretionary activity
CRC061875	Discharge Permit	To discharge water and contaminants, being principally sediment, to the Waimakariri River from construction, operation and maintenance activities on the upper Waimakariri water intake system. A consent with a duration of 35 years is sought.	WRRP, Rule 6.1 – discretionary activity
CRC061920	Discharge Permit	To discharge water and contaminants, being principally sediment, to the Waimakariri River from construction, operation and maintenance activities on the lower Waimakariri water intake system. A consent with a duration of 35 years is sought.	WRRP, Rule 6.1 – discretionary activity
CRC061765	Discharge Permit	To discharge contaminants, being principally dust, to air from any construction, operational or maintenance activity associated with the upper Waimakariri water intake system and the lower Waimakariri water intake system. A consent with a duration of 35 years is sought.	TRP, Clean Air Act 1972 – discretionary activity PNRRP, Rule AQL57 – discretionary activity
CRC061941	Water Permit	To divert water within the Waimakariri River towards the upper Waimakariri water intake system to enable the taking of water for irrigation and ancillary purposes, and for sediment sluicing and fish passes within the upper Waimakariri water intake system and then to divert water through the headrace canal and distribution network as described in schedules A.2 to A.4, which includes water being diverted within the headrace canal and distribution network both above and below ground level. A consent with a duration of 35 years is sought.	WRRP, Rule 5.2 - discretionary activity

Table 2: Waimakariri River

Reference	Type	Description	Activity Status
CRC061943	Water Permit	To divert water in the Waimakariri River towards the lower Waimakariri water intake system to enable the taking of water for irrigation and ancillary purposes, and for sediment sluicing and fish passes within the lower Waimakariri water intake system and then to divert water through the headrace canal and distribution network as described in schedules A.3 and A.4, which includes water being diverted within the headrace canal and distribution network both above and below ground level. A consent with a duration of 35 years is sought.	WRRP, Rule 5.2 – restricted discretionary activity
CRC061972	Water Permit	To take and use water from the Waimakariri River at a maximum rate of 40 cubic metres per second via the upper Waimakariri water intake system and the lower Waimakariri water intake system, for the purposes of irrigation of up to 60,000 hectares of land within the Scheme Area, for water storage, and for ancillary purposes associated with the operation of the Central Plains Water Enhancement Scheme. A consent with a duration of 35 years is sought. Note: For administrative purposes, application CRC061972 has been created to incorporate application CRC021091 to take of up to 40 cubic metres per second of water from the Waimakariri River for irrigation and water enhancement.	Section 77C – discretionary activity WRRP, Rule 5.1 – restricted discretionary activity
CRC061981	Discharge Permit	To discharge water that has been diverted but not taken, back into the Waimakariri River, via sediment sluicing, fish pass and diversion channels that form part of the upper Waimakariri water intake system, A consent with a duration of 35 years is sought.	WRRP, Rule 6.1 – discretionary activity
CRC061982	Discharge Permit	To discharge water that has been diverted but not taken, back into the Waimakariri River, via sediment sluicing, fish pass and diversion channels that form part of the lower Waimakariri Water Intake System. A consent with a duration of 35 years is sought.	WRRP, Rule 6.1 – discretionary activity

Waianiwaniwa Valley

The following applications have been lodged to carry out activities in and adjacent to the Waianiwaniwa River Valley. These applications relate to the following areas, which are defined for the purposes of this advertisement as the **Dam**, and the **Reservoir** ~~and the Tunnel~~.

Dam - The proposed Waianiwaniwa Dam will be constructed at the mouth of the Waianiwaniwa valley where it leaves the Malvern Hills between Homebush Ridge and an unnamed ridge to the north of Coalgate, (between approximate map references NZMS 260 L35: 276-478 and L35: 260-478). The proposed dam height is 55 metres, and proposed dam length is approximately 2 kilometres. The dam will impound approximately 280 million cubic metres of water.

Reservoir - The proposed Waianiwaniwa Reservoir water storage lake will extend approximately 8.5 kilometres upstream from the Dam, and into the tributary valley that joins the main Waianiwaniwa Valley, at approximately the 280 metre above sea level elevation

contour, and will occupy approximately 12 square kilometres of the valley floor and adjacent hillside slopes.

The location of the Dam and Reservoir are shown on Map 1.

~~**Tunnel** – The proposed tunnel is approximately three kilometres long and six metres in diameter, passing through the eastern Malvern Hills, starting at Malvern Hills Road (map reference NZMS 260 L35: 301-562 and emerging at the reservoir at map reference NZMS 260 L35: 282-540.~~

Table 3: Waianiwaniwa Valley

Reference	Type	Description	Activity Status
CRC061845	Land Use Consent	To erect, use and maintain the dam, in, on, under and over the bed of the Waianiwaniwa River and to construct and maintain a tunnel portal in, on, under and over the bed of the Waianiwaniwa River. A duration of a 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule BRL8 – discretionary activity
CRC061769	Land Use Consent	To excavate land to depths exceeding 5 metres, or deeper than the highest groundwater level at the site, and to deposit material into excavated land for the purposes of constructing the dam and reservoir. A consent with a duration of 35 years is sought.	TRP, Bylaw No 2 – discretionary activity PNRRP, Rule WQL59 – discretionary activity PNRRP, Rule WQL62 – non-complying activity
CRC061817	Land Use Consent	To excavate and disturb land, deposit material, and remove and plant vegetation, in the riparian margins of the Waianiwaniwa River associated with construction of the dam and reservoir. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule WQL34 – restricted discretionary activity
CRC061767	Water Permit	To dam water and to divert water within the Waianiwaniwa River during construction of the dam and reservoir. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Damming of Rivers or Streams – discretionary activity PNRRP, Rule WQN41 – discretionary activity
CRC061927	Water Permit	To take surface water and groundwater for dewatering purposes during construction of the dam and reservoir. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Abstraction of Natural Water – discretionary activity PNRRP, Rule WQN18 - discretionary activity
CRC061930	Water Permit	To take water from the Waianiwaniwa River, for use during the construction of the dam, reservoir and tunnel portal, including for concrete batching plant purposes, the control of moisture in compacted soil, and for the control of dust. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Abstraction of Natural Water – discretionary activity PNRRP, Rule WQN9 and WQN19 – discretionary activity
CRC061759	Discharge Permit	To discharge contaminants, being principally dust, to air from construction activities associated with the construction of the dam and reservoir. A consent with a duration of 35 years is sought.	TRP, Clean Air Act 1972 – discretionary activity PNRRP, Rule AQL57 – discretionary activity

Table 3: Waianiwaniwa Valley

Reference	Type	Description	Activity Status
CRC061948	Land Use Consent	To use and store hazardous substances at facilities associated with the construction of the dam, and reservoir, and tunnel . A duration of 35 years is sought.	TRP, Bylaw No 2 – discretionary activity PNRRP, Rule WQL59 – discretionary activity
CRC061870	Discharge Permit	To discharge contaminants, being principally sediment, and water to the Waianiwaniwa River, during construction of the dam, and reservoir, and tunnel . A consent with a duration of 35 years is sought. [CRC073313 now deals with tunnel discharge during the construction phase]	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity
CRC061939	Water Permit	To dam water in the Waianiwaniwa River for the purpose of creating the reservoir. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Damming of Rivers or Streams – discretionary activity PNRRP, Rule WQN41 – discretionary activity
CRC061974	Discharge Permit	To discharge water and contaminants from the headrace canal to the Waianiwaniwa River at about map reference NZMS 260 L35: 282-540 275-476. A consent with a duration of 35 years is sought.	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity
CRC061953	Land Use Consent	To excavate and disturb land, deposit material, and remove and plant vegetation, in the riparian margins of the Waianiwaniwa River and reservoir, associated with the use and maintenance of the dam, reservoir, and related infrastructure. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule WQL34 – restricted discretionary activity PNRRP, Rule BRL8 – discretionary activity
CRC061975	Discharge Permit	To discharge water and contaminants from the reservoir to water in the headrace canal <u>at or about map reference NZMS 260 L35: 275-476</u> . A consent with a duration of 35 years is sought.	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity
CRC061976	Discharge Permit	To discharge water and contaminants from the tunnel portal to land and water in the reservoir <u>at or about map reference NZMS 260 L35: 283-540</u> . A consent with a duration of 35 years is sought.	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity

Applications relating to more than one area

The following applications have been lodged to carry out activities throughout the Central Plains Water Enhancement Scheme Area.

The following applications relate to the areas set out in Schedule A.2 – A.4 below.

Schedule A.2: Inlet canal and tunnel from the Waimakariri River to the Waianiwaniwa Reservoir

The proposed inlet canal from the Waimakariri River to the to the Waianiwaniwa Reservoir will follow an approximately 4 km route from the Upper Waimakariri River intake to be located in the bed of the Waimakariri River at approximate map reference NZMS 260 L35: 254-675, to the tunnel entrance at approximate map reference NZMS 260 L35: 269-637. The tunnel extends approximately 10 km to discharge into the Waianiwaniwa Reservoir at approximate map reference NZMS 260 L35: 283-540.

~~The proposed inlet canal from the Waimakariri Valley to the Waianiwaniwa Reservoir will follow an approximately 15.5 kilometre route from the Upper Waimakariri River intake to be located in the bed of the Waimakariri River at about map references NZMS 260 L35:254-675 1 to 3 kilometres upstream from the confluence of the Kowai and Waimakariri Rivers, to the eastern edge of the Malvern Hills where it will enter a tunnel at about map reference NZMS 260 L35: 301-562, at the west end of Bulls Road.~~

~~The inlet canal will follow a course generally southeast along the true right bank of the Waimakariri River, crossing the Kowai River at about map reference NZMS 260 L35: 267-649, approximately 0.4 km north of Keons Road before climbing the true right bank terrace of the Waimakariri River to reach the main plains surface near Gorge Hill at about map reference NZMS 260 L35: 316-602. It then runs generally south to about map reference NZMS 260 L35: 322-584, and then southwest, passing adjacent to Sheffield School, crossing the Hawkins River, and ending at the tunnel portal.~~

~~The tunnel taking water from the inlet canal to the Waianiwaniwa Reservoir will extend for approximately 3 kilometres southwest between approximate map references NZMS 260 L35: 301-562 (west end of Bulls Road) and L35: 280-539 (Malvern Hills Road, near Jimmys Knob).~~

Schedule A.3: Headrace

The proposed headrace will extend from the Rakaia River intake for approximately 61.4 kilometres across the upper Central Plains following approximately the 235 metre above mean sea level elevation contour line, to the Waimakariri River at the Lower Waimakariri Intake structure at Gorge Bridge.

The western end of the headrace will start in the bed of the Rakaia River at about map reference NZMS 260 K36: 071-392, and runs generally southeast for approximately 9 kilometres along the true left side of the Rakaia River, and traverses the terrace faces to reach the main plains surface at about map reference NZMS 260 L36: 141-328. The route then runs generally east for approximately 4.5 kilometres to cross Rakaia Terrace Road at about map reference NZMS 260 L36: 176-328, and then turns to run generally north for approximately 6 km to cross Leaches Road at about map reference NZMS 260 L36: 188-379, and the Hororata River between Steeles Road and Milnes Road at about map reference NZMS 260 L36: 196-398. The route then turns to the northeast and generally follows the 235 metre above mean sea level elevation contour along the lower slopes of the Harper Hills for approximately 10 kilometres to cross the Coalgate- Hororata Road at about map reference NZMS 260 L35: 257-457 (near the intersection of Plantation Road and Coalgate-Hororata Road), the Selwyn River at about map reference NZMS 260 L35: 259-461, and State Highway 77 at about map reference NZMS 260 L35: 270-474 (0.3 km east of the Homebush Road, Bridge Street and Malvern Hills Road intersection). The route then runs east-northeast along the lower slopes of the Homebush Ridge for approximately 3.5 kilometres to about map reference NZMS 260 L35: 311-494, where it crosses Deans Road. The route then runs east for approximately 4 kilometres across the plains crossing the Hawkins River at about map

reference NZMS 260 L35: 328-493 (between Cullens Road and Clintons Road), and State Highway 73 and the Midland Railway line at about map reference NZMS 260 L35: 350-502. It then runs northeast for approximately 5 kilometres to near Bleak House Corner where it crosses the Old West Coast Road at about map reference NZMS 260 L35: 385-535. It then turns to run generally northwest for approximately 8.5 kilometres, traversing the terrace on the true right bank of the Waimakariri River and finishing at the Lower Waimakariri Intake at Gorge Bridge at about map reference NZMS 260 L35: 328-603.

Schedule A.4: Water distribution race network

The proposed water distribution race network will follow roads or run through private property in the rural areas of The Scheme Area. The northern boundary runs along the Waimakariri River from about the Kowai River confluence downstream for approximately 35 kilometres, and the south-western boundary runs along the Rakaia River from near the Gorge Bridge southeast to the State Highway 1 Bridge. The north-western boundary follows the inner plains margin along the edge of the foothills. The south-eastern margin follows State Highway 1 generally northeast from Rakaia to the Selwyn River, and then trends more generally north and north-northeast to the Waimakariri River. Parts of the race network will pass near the settlements of Springfield, Sheffield, Darfield, Kirwee, Coalgate, Harrogate, Windwhistle, Te Pirita, and Dunsandel.

Table 4: Schedule A.2 – A.4

Reference	Type	Description	Activity Status
CRC061814	Land Use Consent	To excavate land to a depth exceeding 5 metres, or deeper than the highest groundwater level at the site, and to deposit material into excavated land for the purposes of constructing an Inlet Canal, Headrace Canal and Water Distribution Race Network, along and adjacent to the routes identified in Schedules A.2 - A.4. A consent with a duration of 35 years is sought.	TRP, Bylaw No 2 – discretionary activity PNRRP, Rule WQL59 - discretionary activity PNRRP, Rule WQL62 – non-complying activity
CRC061762	Discharge Permit	To discharge contaminants, being principally dust, to air from construction activities along the routes of the Inlet Canal, Headrace Canal, and Water Distribution Race Network, including pump stations as listed in Schedule A8, and at the sites listed in Schedules A.2 - A.4. A consent with a duration of 35 years is sought.	TRP, Clean Air Act 1972 – discretionary activity PNRRP, Rule AQL57 – discretionary activity
CRC061932	Discharge Permit	To discharge water and contaminants, being principally sediment, from construction and maintenance activities associated with the tunnel to land and to water during construction in the area identified in Schedule A.2. A consent with a duration of 35 years is sought. [replaced by CRC073313]	

The following applications have been lodged for activities proposed to occur at the locations listed in Schedules B.1 - B.4 below.

Schedule B.1: Waianiwaniwa dam site

It is proposed to dam and divert the Waianiwaniwa River at about map reference NZMS 260 L35: 275-477 between Homebush Ridge and an unnamed ridge north of Coalgate.

Schedule B.2: Inlet Canal to the Waianiwaniwa Reservoir

The proposed route of the inlet canal will cross rivers and streams at the following locations.

1. Kowai River, approximately 0.4 kilometres north of Keens Road at about map reference NZMS 260 L35: 267-649.

2. Kowai River, approximately 0.6 kilometres north of Keens Road at about map reference NZMS 260 L35: 265-651.
- ~~3. Hawkins River at Malvern Hills Road bridge, at about map reference NZMS 260 L35:302-563.~~
4. Unnamed tributary of Waimakariri River at about map reference NZMS 260 L35:261-656 (within the Waimakariri River bed).
5. Unnamed tributary of Waimakariri River at about map reference NZMS 260 L35:257-662 (within the Waimakariri River bed).
6. Unnamed tributary of Waimakariri River at about map reference NZMS 260 L35:256-663 (within the Waimakariri River bed).

Schedule B.3: Headrace canal

The proposed route of the headrace canal will cross rivers and streams at the following locations.

1. Hororata River, 1.2 kilometres east of Steeles Road at about map reference NZMS 260 L36: 196-398.
2. Selwyn River, 0.1 kilometres south east of where Coalgate- Hororata Road passes over the Selwyn River at about map reference NZMS 260 L35: 259-461.
3. Hawkins River, approximately 0.6 kilometres east of Cullens Road at about map reference NZMS 260 L35: 328-493.
4. Cordys Stream, approximately 0.3 kilometres north of Downs Road, between Harris Road and Maffey's Road at about map reference NZMS 260 L35: 215-421.
5. Unnamed tributary of Hororata River, approximately 1.0 kilometres west of Steeles Road at about map reference NZMS 260 L35: 198-408.
6. Unnamed tributary of Hororata River, approximately 0.7 kilometres south of Downs Road and between Milnes Road and Steeles Road at about map reference NZMS 260 L35: 204-409.
7. Unnamed tributary of Hororata River, approximately 0.7 kilometres south of Downs Road, between Milnes Road and Steeles Road at about map reference NZMS 260 L35: 205-409.
8. Unnamed tributary of Hororata River, approximately 0.3 kilometres south of Downs Road, between Milnes Road and Steeles Road at about map reference NZMS 260 L35:209-414.
9. Unnamed tributary of Hororata River, approximately 0.1 kilometres south of Downs Road, between Milnes Road and Steeles Road at about map reference NZMS 260 L35: 211-417.
10. Unnamed tributary of Hororata River, approximately 0.3 kilometres North West of Glen Alton at about map reference NZMS 260 L35: 220-422.
11. Unnamed tributary of Hororata River, adjacent to Maffey's Road at about map reference NZMS 260 L35: 223-428.
12. Unnamed tributary of Hororata River approximately 0.3 kilometres east of Maffey's Road at about map reference NZMS 260 L35: 226-428.
13. Unnamed tributary of Hororata River, approximately 0.4 kilometres east of Maffey's Road at about map reference NZMS 260 L35: 227-428.
14. Unnamed tributary of Hororata River, approximately 1.7 kilometres north west of the intersection of Downs Road, Hororata Road, Thwaites Road, Scotts Road and Coalgate-Hororata Road at about map reference NZMS 260 L35: 233-433.
15. Unnamed tributary of Hororata River, approximately 1.5 kilometres west of the Coalgate-Hororata Road and Aitkens Street intersection at about map reference NZMS 260 L35: 237-434.

16. Unnamed tributary of Selwyn River, adjacent to Maffeys Road, approximately 1.1 kilometres west of Coalgate- Hororata Road at about map reference NZMS 260 L35: 247-448.
17. Unnamed tributary of Selwyn River, approximately 1.0 kilometres west of Coalgate- Hororata Road at about map reference NZMS 260 L35: 247-450.
18. Unnamed tributary of Selwyn River, approximately 0.5 kilometres west of Coalgate- Hororata Road at about map reference NZMS 260 L35: 252-451.
19. Unnamed tributary of Waianiwaniwa River, approximately 0.3 kilometres North West of the end of Yeomans Road at about map reference NZMS 260 L35: 283-480.
20. Unnamed tributary of Waianiwaniwa River, approximately 0.3 kilometres north of Homebush Road, between Malvern Hills Road and Homebush at about map reference NZMS 260 L35: 276-476
21. Unnamed tributary of Waianiwaniwa River, approximately 1.3 kilometres west of Deans Road at about map reference NZMS 260 L35: 294-486.
22. Unnamed tributary of Waianiwaniwa River, approximately 0.8 kilometres west of Deans Road at about map reference NZMS 260 L35: 297-481.
23. Unnamed tributary of Waianiwaniwa River, approximately 0.3 kilometres west of the intersection of Deans Road and Rowallan Road at about map reference NZMS 260 L35: 306-488.
24. Unnamed tributary of Waianiwaniwa River, approximately 0.3 kilometres north of the end of Yeomans Road at about map reference NZMS 260 L35: 287-482.
25. Blacks Stream, approximately 0.2 kilometres west of Deans Road at about map reference NZMS 260 L35: 309-494.

Schedule B.4: Water distribution race network

The proposed routes of the water distribution race network will cross rivers and streams at the following locations.

1. Unnamed tributary of the Hororata River, approximately 0.8 kilometres south east of the Coleridge Road and Windwhistle Road intersection at about map reference NZMS 260 L35: 058-425.
2. Unnamed tributary of the Hororata River, approximately 2.7 kilometres east of the Coleridge Road and Windwhistle Road intersection at about map reference NZMS 260 L35: 074-429.
3. Unnamed tributary of the Hororata River, approximately 0.9 kilometres south of the Sleemans Road, Rakaia Terrace Road and Leaches Road intersection at about map reference NZMS 260 L36: 141-378.
4. Unnamed tributary of the Hororata River, approximately 1.4 kilometres along Leaches Road from the Sleemans Road, Rakaia Terrace Road and Leaches Road intersection at about map reference NZMS 260 L36: 154-383.
5. Unnamed tributary of the Hororata River, approximately 0.3 kilometres east from the intersection of Leaches Road and Rockwood Road at about map reference NZMS 260 K35: 096-399.
6. Unnamed tributary of the Hororata River, approximately 1.3 kilometres east from the intersection of Leaches Road and Rockwood Road at about map reference NZMS 260 L35: 105-401.
7. Unnamed tributary of the Hororata River, approximately 0.45 kilometres north of the intersection of Rockwood Road and Nelsons Road at about map reference NZMS 260 L35: 122-409.
8. Unnamed tributary of the Selwyn River, approximately 1.0 kilometres along Plantation Road from the intersection of Scotts Road and Plantation Road at about map reference NZMS 260 L35: 263-443

9. Unnamed tributary of the Selwyn River, approximately 1.9 kilometres along Plantation Road from the intersection of Scotts Road and Plantation Road at about map reference NZMS 260 L35: 260-456
10. Unnamed tributary of the Rakaia River, approximately 0.4 kilometres from the end of Darrochs Road at about map reference NZMS 260 L36: 266-224.
11. Unnamed tributary of the Rakaia River, approximately 0.7 kilometres from the end of Darrochs Road at about map reference NZMS 260 L36: 271-236.
12. Irwell River, approximately 1.1 kilometre north west of the Dunsandel Road and South Road Intersection at about map reference NZMS 260 L36: 420-296.
13. Irwell River, approximately 1.1 kilometres north of the Dunsandel Road and South Road Intersection at about map reference NZMS 260 L36: 423-296.
14. Irwell River, approximately 0.5 kilometres North West of the South Road and Yankee Crossing Road intersection at about map reference NZMS 260 L36: 425-296.
15. Irwell River, approximately 0.4 kilometres from the Old South Road and Yankee Crossing Road intersection at about map reference NZMS 260 L36: 426-296.
16. Irwell River, approximately 0.45 kilometres from the Old South Road and Yankee Crossing Road intersection at about map reference NZMS 260 L36: 432-295.
17. Hawkins River, approximately 0.9 kilometres east of the Essendon and Greendale Road intersection, at about map reference NZMS 260 L35: 360-414.
18. Unnamed Tributary of the Hawkins River, approximately 0.5 kilometres south west of the Fergusons Road and Springfield Road intersection at about map reference NZMS 260 L35: 229-599.
19. Unnamed tributary of the Hawkins River, between Fergusons Road, Springfield Road and Dalethorpe Road at about map reference NZMS 260 L35: 228-592.
20. Unnamed tributary of the Hawkins River, approximately 0.3 kilometres west of the intersection of Fergusons Road and Springfield Road at about map reference NZMS 260 L35: 230-601
21. Unnamed tributary of the Hawkins River, at the intersection of Fergusons Road and Springfield Road at about map reference NZMS 260 L35: 233-601.
22. Unnamed tributary of the Hawkins River, at the intersection of Cox Road, Fergusons Road and Dalethorpe Road at about map reference NZMS 260 L35: 244-598.
23. Unnamed tributary of the Hawkins River, approximately 0.2 kilometres west of the Dalethorpe Road and McCurdys Road intersection at about map reference NZMS 260 L35: 253-589.
24. Unnamed tributary of the Hawkins River, approximately 1.0 kilometres south east of the Coxs Road, Tramway Road, Junction Road and Keens Road Intersection at about map reference NZMS 260 L35: 260-606.
25. Unnamed tributary of the Hawkins River, approximately 0.85 kilometres north east of the Coxs Road, Tramway Road, Junction Road and Keens Road Intersection at about map reference NZMS 260 L35: 257-619.
26. Unnamed tributary of the Hawkins River, approximately 0.9 kilometres north east of Kowai Pass at about map reference NZMS 260 L35: 248-627.

Table 5: Schedule B.1 – B.4

Reference	Type	Description	Activity Status
CRC061820	Land Use Consent	To excavate and disturb land, deposit material, and remove and plant vegetation associated with any construction, operational or maintenance activity relating to the Headrace, Inlet Canal, and Water Distribution Race Network, in the riparian margins of the surface water bodies listed in Schedules B.1-B.4. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule WQL34 – restricted discretionary activity PNRRP, Rule BRL8 – discretionary activity
CRC061846	Land Use Consent	To place, operate, maintain and repair Inlet Canal, Headrace Canal, and Water Distribution Race Network Structures, including siphons, pipes, and erosion protection structures, and associated bed excavation and disturbance, in, on, under, or over the beds of the surface water bodies listed in Schedules B.1-B.4. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule WQL34 – restricted discretionary activity PNRRP, Rule BRL8 – discretionary activity WRRP, Rule 7.4 – discretionary activity
CRC061925	Water Permit	To take water for dewatering purposes during construction of the Inlet Canal, Headrace Canal, and Water Distribution Race Network, including for the purposes of constructing siphons, pipes, and erosion protection structures/works, in the surface water bodies identified in Schedules B.1-B.4. A consent with a duration of 35 years is sought.	PNRRP, Rule WQN18 – discretionary activity
CRC061871	Discharge Permit	To discharge contaminants, being principally sediment, and water associated with any construction activity relating to the construction and maintenance of the Inlet Canal, Headrace Canal and Water Distribution Race Network, to water in surface water bodies listed in Schedules B.1-B.4. A consent with a duration of 35 years is sought.	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity
CRC061768	Water Permit	To dam and divert water during construction of the Headrace and Water Distribution Race Network, including for the purposes of constructing siphons, pipes, and erosion protection structures or works, in the surface water bodies identified in Schedules B.2 - B.4. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Diversion and Discharge of Natural Water – discretionary activity TRP, General Authorisation for the Damming of Rivers or Streams – discretionary activity PNRRP, Rule WQN41 – discretionary activity
CRC061924	Discharge Permit	To discharge stormwater, which may contain contaminants, from all construction areas into the Waimakariri River and the Rakaia River and the water bodies listed in Schedules B.1-B.4. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Discharge of Stormwater – discretionary activity PNRRP, Rule WQL57 – discretionary activity PNRRP, Rule WQL61 – non-complying activity

Table 5: Schedule B.1 – B.4

Reference	Type	Description	Activity Status
CRC061977	Discharge Permit	To discharge contaminants, being principally sediment, and water to water associated with any operational or maintenance activity relating to the Inlet Canal, Headrace Canal and Water Distribution Race Network, in surface water bodies listed in Schedules B.1-B.4. A consent with a duration of 35 years is sought.	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity
CRC061978	Discharge Permit	To discharge surplus water and contaminants from the Headrace Canal and Water Distribution Race Network to land adjacent to, and water in the surface water bodies identified in Schedules B.1-B.4. A consent with a duration of 35 years is sought.	PNRRP, Rule WQL57 – discretionary activity PNRRP, Rule WQL61 – non-complying activity
CRC061928	Discharge Permit	To discharge water taken for dewatering purposes during construction or maintenance works to land in circumstances where it may enter water, and to water in the surface water bodies identified in Schedules B.1-B.4. A consent with a duration of 35 years is sought.	PNRRP, Rule WQL57 – discretionary activity PNRRP, Rule WQL61 – non-complying activity PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity

The following applications have been lodged for activities proposed to occur at the locations listed in Schedules C.1 - C.4 below.

Schedule C.1: Rakaia River headworks discharges

Rakaia Intake Area on the true left (northern) banks of the Rakaia River in an area approximately 8 to 10 kilometres downstream of the Rakaia Gorge Bridge.

1. Sediment sluice race discharge at about map reference NZMS 260 K36: 081-381
2. Fish bypass channel at about map reference NZMS 260 K36: 083-378

Schedule C.2: Waimakariri River headworks discharges

Upper Waimakariri Intake in the bed and on the true right (southern) bank of the Waimakariri River in an area approximately one to three kilometres upstream of the confluence of the Kowai and Waimakariri Rivers.

1. Upper Intake sediment sluice race discharge at about map reference NZMS 260 L35: 262-659.
2. Upper intake fish bypass channel at about map reference NZMS 260 L35: 263-657.

Lower Waimakariri Intake in the bed and on the true right (southern) bank of the Waimakariri River at the Waimakariri Gorge Bridge and in an area approximately 1.5 kilometres downstream of the Waimakariri Gorge Bridge.

3. Lower (Gorge Bridge) intake sediment sluice race discharge at about map reference NZMS 260 L35: 344-588.
4. Lower (Gorge Bridge) intake fish bypass channel at about map reference NZMS 260 L35: 344-588.

Schedule C.3: Operational bywash discharges

Operational bywash discharges will occur from water distribution races at the following locations.

1. Race D 2 to a wetland adjacent to the Selwyn River at about map reference NZMS 260 L36: 456-301, (end of Highfield Road as it enters the Selwyn River Bed).
2. Race D 2.1 to a wetland adjacent to the Waimakariri River, at the north end of Intake Road at about map reference NZMS 260 M35: 523-490.
3. Race D 2.2 to a wetland adjacent to the Waimakariri River, between Intake Road and Thompsons Road, at about map reference NZMS 260 M35: 539-488.
4. Race D 2.3 to a stockwater race, at the intersection of Wards Road, Kivers Road and Aylesbury Road at about map reference NZMS 260 M36: 524-371.
5. Race D 3 to a wetland adjacent to the Selwyn River, next to Two Chain Road between Strangers Road and Highfield Road at about map reference NZMS 260 L36: 441-305.
6. Race C 1 to a wetland adjacent to the Hawkins River between Coaltrack Road, Ridgens Road and Hollands Road, at about map reference NZMS 260 L36: 394-330,
7. Race C 2 to a wetland adjacent to the Waianiwaniwa River between Waterford Road and Gillanders Road at about map reference NZMS 260 L36: 351-358.
8. Race C 3 to a wetland adjacent to the Selwyn River between Waterford Road and Gillanders Road at about map reference NZMS 260 L36: 350-345.
9. Race TP 1 to a wetland adjacent to the Selwyn River at the Selwyn River end of Old South Road at about map reference NZMS 260 L36: 435-299.
10. Race TP 2.6 to a wetland adjacent to the Rakaia River where the Main South Road crosses the Rakaia River at about map reference NZMS 260 L36: 329-184.

Schedule C.4: Emergency bywash discharges

Emergency bywash discharges will occur from water distribution races at the following locations.

1. Race D 2 to a wetland adjacent to the Selwyn River at the end of Highfield Road as it enters the Selwyn River Bed at about map reference NZMS 260 L36: 456-301.
2. Race D 2.1 to a wetland adjacent to the Waimakariri River at the north end of Intake Road at about map reference NZMS 260 M35: 523-490.
3. Race D 2.1.1 to the Waimakariri River at the Waimakariri River end of Courtenay Road at about map reference NZMS 260 L35: 477-496,
4. Race D 2.2 to a wetland adjacent to the Waimakariri River between Intake Road and Thompson's Road at about map reference NZMS 260 M35: 539-488.
5. Race D 3 to a wetland adjacent to the Selwyn River, next to Two Chain Road between Strangers Road and Highfield Road at about map reference NZMS 260 L36: 441-305.
6. Race C 1 to a wetland adjacent to the Hawkins River, between Coaltrack Road, Ridgens Road and Hollands Road at about map reference NZMS 260 L36: 394-330.
7. Race C 2 to a wetland adjacent to the Waianiwaniwa River, between Waterford Road and Gillanders Road at about map reference NZMS 260 L36: 351-358.
8. Race C 3 to a wetland adjacent to the Selwyn River, between Waterford Road and Gillanders Road at about map reference NZMS 260 L36: 350-345.
9. Race TP 1 to a wetland adjacent to the Selwyn River at the Selwyn River end of Old South Road at about map reference NZMS 260 L36: 435-299.
10. Race TP 1.1 to the Hororata River between Gillanders Road and Mitchells Road at about map reference NZMS 260 L36: 337-334.
11. Race TP 2.6 to a wetland adjacent to the Rakaia River where the Main South Road crosses the Rakaia River at about map reference NZMS 260 L36: 329-184.

12. Race TP 3.2 to the Rakaia River at the end of Darrochs Road at about map reference NZMS 260 L36: 264-219.

[see also CRC071916 and CRC071917 for two additional bywash locations]

Table 6: Schedule C.1 – C.4

Reference	Type	Description	Activity Status
CRC061847 [see refer CRC071916 and CRC071917 for two additional bywash locations]	Land Use Consent	To erect, and maintain discharge structures and erosion protection structures and carry out associated bed excavation and disturbance, in, on, under, and over the bed of the surface water bodies listed in Schedules C.1 - C.4 above. The structures and works will be associated with the construction and maintenance of the Inlet Canal, Headrace Canal, and Water Distribution Race Network. A consent with a duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule WQL34 – restricted discretionary activity PNRRP, Rule BRL8 – discretionary activity WRRP, Rule 7.4 – discretionary activity
CRC061950 [see also CRC071916 and CRC071917 for two additional bywash locations]	Discharge Permit	To discharge surplus water and contaminants, from the Headrace Canal and Water Distribution Race Network to land in circumstances where it may enter groundwater, and to water at the locations listed in Schedules C.1 - C.4 above. A consent with a duration of 35 years is sought.	PNRRP, Rule WQL57 – discretionary activity PNRRP, Rule WQL61 – non-complying activity PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity

The following applications have been lodged for activities proposed to occur at the locations listed in Schedule A.8 listed below.

Schedule A.8: Pump stations

Pump stations are proposed at the following locations.

1. On the inlet canal at Tipapa, at about map reference NZMS 260 L35: 269-637
2. On the headrace in the Waimakariri Valley, approximately 0.7 km north west of Westwood at about map reference NZMS 260 L35: 352-569.
3. On the headrace near the Waianiwanuiwa Dam, approximately 0.3 km north of Homebush Road, between Malvern Hills Road and Yeomans Road at about map reference NZMS 260 L35: 277-477.
4. On the headrace in the Rakaia Valley, approximately 1.0 km towards the Rakaia River from the end of Sleemans Road at about map reference NZMS 260 L36: 120-348.
5. On the Windwhistle race network, at the intersection of Sleemans Road, Leaches Road and Rakaia Terrace Road at about map reference NZMS 260 L36: 141-385.

Table 7: Schedule A.8

Reference	Type	Description	Activity Status
CRC061951	Land Use	To use and store hazardous substances required for emergency generators and pump stations along the Headrace Canal at the sites listed in Schedule A.8 above. A consent with a duration of 35 years is sought.	

Table 7: Schedule A.8

Reference	Type	Description	Activity Status
CRC061933	Discharge Permit	To discharge contaminants to air from pump stations and emergency generators at the sites listed in Schedule A.8 above. A consent with a duration of 35 years is sought.	

The following applications relate to the entire Central Plains Enhancement Scheme Area.

Table 8: Entire CPWES area

Reference	Type	Description	Activity Status
CRC061922	Discharge Permit	To discharge stormwater, which may contain contaminants, onto or into land, in circumstances where it may enter water, from all construction areas associated the Central Plains Water Enhancement Scheme. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Discharge of Stormwater – discretionary activity PNRRP, Rule WQL57 – discretionary activity PNRRP, Rule WQL61 – non-complying activity
CRC061755	Discharge Permit	To discharge contaminants to air from construction activities including welding, abrasive blasting, water blasting and painting associated with the construction of the Central Plains Water Enhancement Scheme. A consent with a duration of 35 years is sought.	PNRRP, Rule AQL57 – discretionary activity
CRC061949	Discharge Permit	To discharge water and contaminants to land in circumstances where it may enter water, in the form of seepage from beneath the Reservoir, and along the length of the Inlet Canal, Headrace Canal, Water Distribution Race Network, and wetlands, as listed in Schedules A.1-A.4 and C.3-C.4. A consent with a duration of 35 years is sought.	PNRRP, Rule WQL57 – discretionary activity PNRRP, Rule WQL61 – non-complying activity
CRC061983	Discharge Permit	To discharge stormwater, which may contain contaminants, from all structures associated with the Central Plains Water Enhancement Scheme into a river, lake or artificial watercourse, including the Waimakariri River and Rakaia River and the water bodies listed in Schedules B.1-B.4 and C.1 - C.4. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Discharge of Stormwater – discretionary activity PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity
CRC061945	Discharge Permit	To discharge stormwater, which may contain contaminants, onto or into land, in circumstances where it may enter water, from all structures including but not limited to: Inlet Canal, Headrace Canal, Water Distribution Race Network, dam and reservoir, roads, hardstand areas and utility buildings associated with the Central Plains Water Enhancement Scheme. A consent with a duration of 35 years is sought.	TRP, General Authorisation for the Discharge of Stormwater – discretionary activity PNRRP, Rule WQL57 – discretionary activity PNRRP, Rule WQL61 – non-complying activity

Section B – Resource Consents Publicly Notified in May 2007

LONG TUNNEL

Purpose:

The following applications relate to activities associated with the proposed construction, operation and maintenance of an approximately 10 kilometre long tunnel of approximately 4 metres diameter, and a minimum depth below ground level of 30 metres (excluding the portal areas). The tunnel would carry water from the proposed upper intake on the Waimakariri River to the proposed Waianiwaniwa Reservoir, as part of the proposed Central Plains Water Enhancement Scheme.

The tunnel would incorporate two construction staging areas, each consisting of temporary buildings and construction facilities, at the Waimakariri portal and Waianiwaniwa portal. Approximately 130,000 cubic metres (solid measure) of material would be excavated from the tunnel, via a tunnel boring machine and drill and blasting methods, and disposed of in the Waianiwaniwa Valley. Construction is expected to take approximately three years.

The 10 kilometre tunnel proposal replaces the original 15 kilometre open canal and three kilometre tunnel proposal leading from the proposed upper intake on the Waimakariri River to the Waianiwaniwa Reservoir, via the Waimakariri River terrace and Canterbury Plains near Sheffield, as notified in the original applications in June 2006. The 15 kilometre open canal and 3 kilometre tunnel option is no longer being pursued by Central Plains Water Trust and has been eliminated from further consideration in the current resource consent process.

For the purpose of these applications the following locations apply:

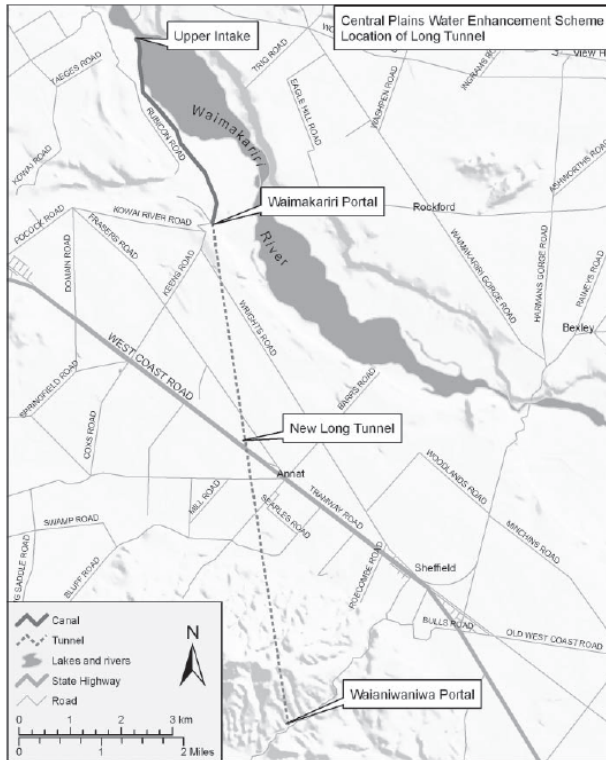
The tunnel – the proposed 10 kilometre long tunnel from the Waimakariri portal (described below) to the Waianiwaniwa portal (described below).

Waimakariri portal – at or about map reference NZMS 260 L35: 268-640, on the south bank of the Waimakariri River, adjacent to Keens Road.

Waianiwaniwa portal – at or about map reference NZMS 260 L35: 283-541, adjacent to Malvern Hills Road.

The location of the tunnel and the tunnel portals is illustrated in Map 1.

MAP 1 – LOCATION OF LONG TUNNEL (CURRENT PROPOSAL)



The following applications have been lodged for activities relating to the tunnel:

Table 9: Long Tunnel

Reference	Type	Description	Activity Status
CRC072760	Land Use Consent	A land use consent to excavate a tunnel under the bed of the Hawkins River and tributaries, at or about map reference NZMS 260 L35: 278-578, near Bluff Road. A duration of 35 years is sought.	PNRRP, Rule BRL8 – discretionary activity
CRC072761	Land Use Consent	A land use consent to excavate a tunnel over unconfined or semi-confined aquifers along the route between the Waimakariri portal and Waianiwiwa portal. A duration of 35 years is sought.	PNRRP, Rule BRL62 – non-complying activity
CRC072762	Water Permit	A water permit to take water for dewatering the tunnel during construction along the route between the Waimakariri portal and Waianiwiwa portal. A duration of 10 years is sought.	TRP, General Authorisation for the Abstraction of Natural Water – discretionary activity PNRRP, Rule WQN18 – discretionary activity
CRC072765	Land Use Consent	A land use consent to store hazardous substances (principally diesel) to power machinery and plant at the Waimakariri portal and Waianiwiwa portal. A duration of 10 years is sought.	TRP, Clean Air Act 1972 - discretionary activity PNRRP, AQL27 – discretionary activity
CRC072766	Discharge Permit	A discharge permit to discharge contaminants to air from the operation of a diesel generator during construction at the Waimakariri portal and Waianiwiwa portal. A duration of 10 years is sought.	TRP, Bylaw No 2 – discretionary activity PNRRP, Rule WQL59 – discretionary activity

Table 9: Long Tunnel

Reference	Type	Description	Activity Status
CRC073313	Discharge Permit	A discharge permit to discharge contaminants, principally sediment, and water to the Waianiwaniwa River near the Waianiwaniwa portal during construction of the tunnel. A duration of 10 years is sought.	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity

ADDITIONAL BYWASH DISCHARGES

Purpose:

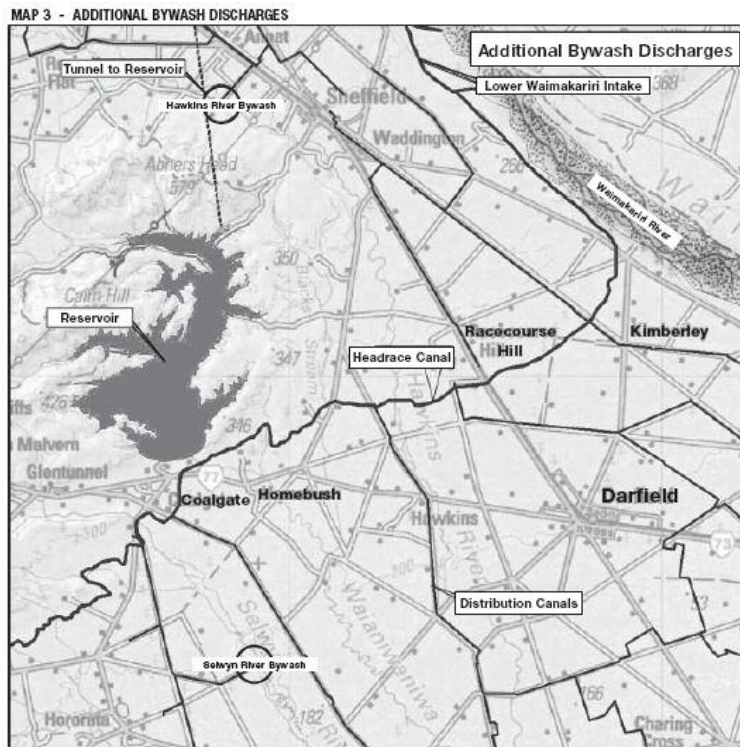
The following applications relate to operational bywash and emergency peak discharges at two locations –

- (1) The Selwyn River four kilometres east of Hororata, near Hawkins Road, and
- (2) The Hawkins River two kilometres upstream from Sheffield, near Bluff Road.

These new applications are additional to those already publicly notified for the proposed Central Plains Water Enhancement Scheme and have been required as a consequence of changes made following further consultation with landowners.\

Under normal operations the bywash points will discharge small volumes of surplus water – approximately 0.4 cubic metres per second (m3/s) and 0.3 cubic metres per second (m3/s) into the Selwyn and Hawkins Rivers respectively – at the end of the network races. Under emergency conditions there could be rare and brief times when up to 3 cubic metres per second (m3/s) and 2.5 cubic metres per second (m3/s) could be discharged into the Selwyn and Hawkins Rivers respectively. Operational discharges will pass through constructed wetlands but emergency discharges may pass direct to the rivers.

The locations of the discharge points are illustrated in Map 3.



The following applications have been lodged for activities relating to the additional bywash discharges:

Table 10: Additional Bywash Discharges

Reference	Type	Description	Activity Status
CRC071917 [to be included in CRC061950]	Discharge Permit	A discharge permit to discharge water and contaminants to land and water at a maximum rate of 0.4 cubic metres per second (m3/s) to a 0.1 – 0.2 hectare constructed wetland, except that during emergencies the discharge could reach a maximum rate of 3 m3/s and may be discharged directly into the Selwyn River. The discharge shall occur at or about map reference NZMS 260 L35: 289-421, near Hawkins Road, adjacent to the Selwyn River. A duration of 35 years is sought.	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity
CRC073034 [also refer CRC061847]	Land Use Consent	A land use consent to erect, and maintain discharge structures and erosion protection works and to carry out associated excavation and disturbance, in, on, under, and over the bed of the Selwyn River and riparian margins to create a 0.1-0.2 hectare constructed wetland, at or about map reference NZMS 260 L35: 289-421, near Hawkins Road, adjacent to the Selwyn River. A duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule WQL34 – restricted discretionary activity PNRRP, Rule BRL8 – discretionary activity WRRP, Rule 7.4 – discretionary activity
CRC071916 [to be included in CRC061950]	Discharge Permit	A discharge permit to discharge water and contaminants to land and water at a maximum rate of 0.3 m3/s to a 0.1 hectare constructed wetland, except that during emergencies the discharge could reach a maximum rate of 2.5 m3/s and may be discharged directly to the Hawkins River, at about map reference NZMS 260 L35: 281–574, near Bluff Road, adjacent to the Hawkins River. A duration of 35 years is sought.	PNRRP, Rule WQL56 – discretionary activity PNRRP, Rule WQL60 – non-complying activity
CRC073035 [also refer CRC061847]	Land Use Consent	A land use consent to erect, and maintain discharge structures and erosion protection works and to carry out associated excavation and disturbance, in, on, under, and over the bed of the Hawkins River and riparian margins to create a 0.1 hectare constructed wetland, at or about map reference NZMS 260 L35: 281-574, near Bluff Road, adjacent to the Hawkins River. A duration of 35 years is sought.	TRP, Bylaw No 1 – discretionary activity PNRRP, Rule WQL34 – restricted discretionary activity PNRRP, Rule BRL8 – discretionary activity WRRP, Rule 7.4 – discretionary activity