

Report 1, Appendix 6 – CONDITIONS

This Appendix contains a list of standard conditions that are commonly used on resource consents for water, land use and discharge permits.

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WATER PERMITS

Surface water take and use

Below follows a list of standard template conditions which are commonly recommended to be included on a water permit to take and use surface water. It should be noted that the list is not exhaustive, and if the conditions are to be included as part of a consent, they must be adapted and considered in light of the activity for which an applicant has applied. It should also be noted that there may be additional conditions that are required to mitigate an adverse effect that the following conditions do not address.

Rate and Location of abstraction

1. Water shall only be taken from [name of waterbody(ies)], at surface water abstraction point [SWAP number] at or about map references(s), NZMS260 [...], at a rate not exceeding [instantaneous rate] litres per second, with a volume not exceeding [volume] cubic metres between 1 July and the following 30 June.

Minimum Flow Restrictions

2. *For applications to take and use water from tributary waterbodies, refer to Report 3 which discusses flow and level regimes on the tributaries of the Lower Waitaki River. Report 3 includes recommended standard wording for conditions that may be applied to A, B and C band permits.*
3. *For applications to take and use water from the Waitaki River mainstem, refer to Report 2 for a discussion on minimum flow conditions.*

Use – Type and Area

4. Water shall be used only for irrigation of [crops and] pasture for grazing [sheep, beef cattle, deer or non-milking dairy cows] as described in the application, on the area of land shown in attached plan CRC....., which forms part of this consent.

Use - Avoid wastage

5. The consent holder shall take all practicable steps to:
 - a. Ensure that the volume of water used for irrigation does not exceed that required for the soil to reach field capacity; and
 - b. Avoid leakage from pipes and structures; and
 - c. Avoid the use of water onto non-productive land such as impermeable surfaces and river or stream riparian strips.

System Design 1– Backflow Prevention

6. .
 - a. If the irrigation system used to distribute water taken in terms of this permit is used to distribute effluent, fertiliser or any other added contaminant, a backflow preventer manufactured in accordance with AS 2845.1 (1998) or the American Society of Sanitary Engineers standards shall be installed within the pump outlet plumbing or within the mainline, to prevent the backflow of water into the bore.
 - b. The backflow preventer shall be tested to the standard set out in AS 2845.3 (1993) or an equivalent method within one month of its installation and annually thereafter by a

suitably qualified person. A test report shall be provided to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within two weeks of each inspection.

System Design 2 - Fish Screen

- 7.
- a. Water shall only be taken when a fish screen with a maximum mesh width and height size of 3 millimetres or slot width and height of 2 millimetres is operated and maintained across the intake to ensure that fish and fish fry are prevented from passing through the intake screen.
 - b. The fish screen shall be positioned to ensure that there is unimpeded fish passage to and from the waterway and to avoid the entrapment of fish at the point of abstraction, and to minimise the risk of fish being damaged by contact with the screen face.
 - c. The fish screen shall be designed and installed to ensure that:
 - i. the majority of the screen surface is oriented parallel to the direction of water flow.
 - ii. where practicable, the screen is positioned in the water column a minimum of 300 millimetres above the bed of the waterway and a minimum of one screen radius from the surface of the water.
 - iii. the approach velocity perpendicular to the face of the screen shall not exceed 0.06 metres per second if no self-cleaning mechanism exists, or 0.12 metres per second if a self-cleaning mechanism is operational.
 - iv. the sweep velocity parallel to the face of the screen shall exceed the design approach velocity.
 - d. The fish screen shall be designed or supplied by a suitably qualified person who shall ensure that the design criteria specified in condition (6)(a) –(c)(iv) of this consent is achieved. Prior to the installation of the fish screen, a report containing final design plans and illustrating how the fish screen will meet the required design criteria, and an operation and maintenance plan for the fish screen shall be provided to Environment Canterbury, Attention: RMA Compliance and Enforcement Manager.
 - e. A certificate shall be provided to Environment Canterbury by the designer or supplier of the fish screen to certify that the fish screen has been installed in accordance with the details provided to Environment Canterbury in accordance with condition (6)(a) of this consent.
 - f. The fish screen shall be maintained in good working order. Records shall be kept of all inspections and maintenance, and those records shall be provided to Environment Canterbury upon request.

Flow Measuring and Metering 1

8. The taking of water in terms of this permit shall cease for a period of up to 48 hours on notice from the Canterbury Regional Council, to allow measurement of the flow in the [waterway].

Flow Measuring and Metering 2

9. The consent holder shall, within six months of the request, install an easily accessible straight pipe(s), with no fittings or obstructions that may create turbulent flow conditions, of a length at least 15 times the diameter of the pipe(s), as part of the pump outlet plumbing or within the mainline distribution system.

Flow Measuring and Metering 3 – for takes over 30L/s

10. The consent holder shall before the first exercise of this consent:
- (a) (i) install a water meter(s) that has an international accreditation or equivalent New Zealand calibration endorsement, and has pulse output, suitable for use with an electronic recording device, which will measure the rate and the volume of water

- taken to within an accuracy of plus or minus five percent as part of the pump outlet plumbing, or within the mainline distribution system, at a location(s) that will ensure the total take of water is measured; and
- (ii) install a tamper-proof electronic recording device such as a data logger(s) that shall time stamp a pulse from the flow meter at least once every [specify time period - default = 15 minutes for takes with a "high" degree of hydraulic connection, 60 minutes for all others], and have the capacity to hold at least one season's data of water taken as specified in clauses (b)(i) and (b)(ii), or which is telemetered, as specified in clause (b)(iii).
- (b) The recording device(s) shall:
- 1. (i) be set to wrap the data from the measuring device(s) such that the oldest data will be automatically overwritten by the newest data (i.e. cyclic recording); and
 - (ii) store the entire season's data in each 12 month period from 1 July to 30 June in the following year, which the consent holder shall then download and store in a commonly used format and provide to the Canterbury Regional Council upon request in a form and to a standard specified in writing by the Canterbury Regional Council; or
 - (iii) shall be connected to a telemetry system which collects and stores all of the data continuously with an independent network provider who will make that data available in a commonly used format at all times to the Canterbury Regional Council and the consent holder. No data in the recording device(s) shall be deliberately changed or deleted.
- (c) The water meter and recording device(s) shall be accessible to the Canterbury Regional Council at all times for inspection and/or data retrieval.
- (d) The water meter and recording device(s) shall be installed and maintained throughout the duration of the consent in accordance with the manufacturer's instructions.
- (e) All practicable measures shall be taken to ensure that the water meter and recording device(s) are fully functional at all times.

Flow Measuring and Metering 3 – for takes 30L/s or less

11. The consent holder shall before the first exercise of this consent:

- a. install a water meter(s) that has an international accreditation or equivalent New Zealand calibration endorsement, and has pulse output, suitable for use with an electronic recording device, which will measure the rate and the volume of water taken to within an accuracy of plus or minus five percent as part of the pump outlet plumbing, or within the mainline distribution system, at a location(s) that will ensure the total take of water is measured;
- b. Take a reading from the water meter at least [specify period, default = once per month]; record the date and the meter reading either electronically or in a log book kept for that purpose; and supply these data to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, each year during the month of June, or when requested in writing.
- c. Ensure that the water meter is accessible to the Canterbury Regional Council at all times for inspection.
- d. Ensure that the water meter is installed, maintained and operated throughout the duration of the consent in accordance with the manufacturer's instructions.
- e. Take all practicable measures to ensure that the water meter is fully functional at all times.

Compliance 1 – Flow Meter Certification – for takes over 30L/s

12. Within one month of the installation of the measuring or recording device(s), or any subsequent replacement measuring or recording device(s), and at five-yearly intervals thereafter, and at any time when requested by the Canterbury Regional Council, the consent holder shall provide a certificate to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, signed by a suitably qualified person certifying, and demonstrating by means of a clear diagram, that:

- a. The measuring and recording device(s) has been installed in accordance with the manufacturers specifications; and
- b. Data from the recording device(s) can be readily accessed and/or retrieved in accordance with clauses (b) and (c) of condition (x).

Compliance 1 – Flow Meter Certification – for 30L/s or less

13. Within one month of the installation of the measuring or recording device(s), or any subsequent replacement measuring or recording device(s), and at five-yearly intervals thereafter, and at any time when requested by the Canterbury Regional Council, the consent holder shall provide a certificate to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, signed by a suitably qualified person certifying, and demonstrating by means of a clear diagram, that the measuring device has been installed in accordance with the manufacturers specifications.

Compliance 2 – First Use

14. The Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, shall be informed immediately on first exercise of this consent by the consent holder.

Review

15. The Canterbury Regional Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent for the purposes of dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.

Lapse

16. The lapsing date for the purposes of section 125 shall be [between 5 years and 5 years three months, date set for each quarter].

Surface Water Diversions

Below follows a list of standard template conditions which are commonly recommended to be included on a water permit to divert surface water. It should be noted that the list is not exhaustive, and if the conditions are to be included as part of a consent, they must be adapted and considered in light of the activity for which an applicant has applied. It should also be noted that there may be additional conditions that are required to mitigate an adverse effect that the following conditions do not address.

Conditions recommended to be included as part of a consent to divert surface water are generally the same as for a consent to take and use surface water, except for the measuring and recording of the diversion. The following condition deals with flow measuring and recording for diversions.

1.
 - (a) The consent holder shall, prior to exercising this consent, install a water level measuring device in a location that will enable the determination of the continuous rate of flow and volume of water being diverted to within an accuracy of 10 percent.
 - (b) The measuring device shall, as far as is practicable, be installed at a site likely to retain a stable relationship between flow and water level. The measuring device shall be installed in accordance with the manufacturer's instructions.
 - (c) The flow at the measuring site shall be gauged at least every three months whilst this consent is being exercised, and at any other time when required as determined by a site inspection, to be carried out at least once every month.
 - (d) Gaugings and site inspections shall be carried out in accordance with the following manuals: Hydrologists Field Manual (NIWA 1991) and Procedure for Rating a Flow Station (NIWA 1993) or any equivalent publication.
 - (e) The level of water in the race, and times of diversion, shall be recorded by electronic means, at not greater than fifteen minute intervals in a tamper-proof recording device such as a data-logger, kept for that purpose. The recorded data shall not be changed or deleted by any person, unless twelve months have passed since the date of recording.
 - (f) The measuring and recording devices described in clauses (a) and (e) shall be available for inspection at all times by the Canterbury Regional Council.
 - (g) All data from the recording device described in clause (e), and the corresponding relationship between the water level and flow, shall be provided to the Canterbury Regional Council on request, and shall be accessible and available for downloading at all times by the Canterbury Regional Council.
 - (h) Within one month of the commencement of this consent, at two-yearly intervals thereafter, and at any other time when requested by Canterbury Regional Council, the consent holder shall calibrate the measuring device and provide to the Canterbury Regional Council:
 - (i) a certificate signed by a suitably qualified person certifying the current accuracy of the measuring and recording devices, and also certifying that data from the recording device described in clause (e) can be readily accessed in accordance with clause (f); and
 - (ii) supporting information containing details of the calibration test.

Damming water

Below follows a list of standard template conditions which are commonly recommended to be included on a water permit to dam surface water. It should be noted that the list is not exhaustive, and if the conditions are to be included as part of a consent, they must be adapted and considered in light of the activity for which an applicant has applied. It should also be noted that there may be additional conditions that are required to mitigate an adverse effect that the following conditions do not address.

Out of Stream Dam

Scope

1. Water shall only be dammed on land parcel [lot number], located on [street name and locality], at or about map reference NZMS 260 [map reference], as shown on Plan CRCXXXXXX.
2. The volume of water dammed shall not exceed [...] cubic metres.
3. The depth of water in the dam shall not exceed [X] metres.
4. The consent holder shall ensure that the freeboard is a minimum of [x] metres.
5. The height of the crest shall not exceed [X] metres above [natural ground level or stream bed level], as measured from the centre of the crest.

Construction

6. Prior to the commencement of construction a copy of this resource consent shall be given to every person involved in the construction.
7. A construction report shall be prepared by the [person responsible for the design and construction of the dam], and a copy of which shall be provided to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within one month of the construction of the dam.
8. Upon completion of the dam, and before first filling, the [person responsible for the design and construction of the dam] shall certify the dam as safe and ready for operation. A copy of the certification document shall be forwarded to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager.
9.
 - a. The [person responsible for the design and construction of the dam] shall be present during first filling and shall record any faults observed.
 - b. The consent holder shall immediately remedy any faults recorded during first filling.
 - c. A report shall be prepared detailing any faults observed and the remedial action taken, a copy of which shall be provided to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within one month of first filing.
10.
 - a. The consent holder shall ensure that a chartered professional engineer inspects the dam within five days of first filling.
 - b. The chartered professional engineer shall record any faults or findings that could potentially lead to dam failure, and recommend the appropriate remedial works. A report of these findings and recommended remedial actions shall be prepared and a

copy of which shall be provided to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within one month of the inspection.

- c. The consent holder shall immediately undertake any remedial works or corrective action recommended by the engineer and notify the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within one week of completion.

Operation and Maintenance

11.

- a. The consent holder shall undertake routine inspections and maintenance works on the dam.
- b. The details and findings of any inspections and maintenance works shall be recorded in a logbook kept for that purpose. A copy of the logbook shall be forwarded to Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, by 30 June each year.

12. The consent holder shall ensure that the dam is inspected comprehensively by, or under the supervision of, a chartered professional engineer, yearly for the first [XXXX] years and then once every [XXXX] years after that. A copy of the inspection report shall be forwarded to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within one month of the inspection.

13. In the event of any evidence of erosion, seepage, cracking, settlement, slipping or other embankment deformation the consent holder shall, immediately:

- a. Report the event to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager; and
- b. Consult a chartered professional engineer who shall be requested to take responsibility for:
 - i. the inspection of the dam;
 - ii. the identification of remedial action required;
 - iii. the recording of the details of the inspection, reasons for the fault and remedial action required, in a report, a copy of which shall be forwarded to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within one month of the inspection.
- c. Undertake any remedial works or corrective action recommended by the engineer, and notify the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within one week of completion.

14. In the event of dam failure, the consent holder shall immediately contact a chartered professional engineer who shall complete a report detailing the cause of failure and the action taken. A copy of this report shall be forwarded to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within one month of the event.

Administration

15. The Canterbury Regional Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent for the purposes of dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.

16. The lapsing date for the purposes of section 125 shall be [between 5 years and 5 years three months, date set for each quarter].

In Stream Dam

The following additional conditions could be included on a consent to dam water in a waterway

17. A flow of at least [flow] litres per second shall be maintained below the dam.

18. A fish ladder/elver tube shall be constructed and maintained within the structure.

19. The damming of water shall not prevent the passage of fish.

Groundwater Take and use

Below follows a list of standard template conditions which are commonly recommended to be included on a water permit to take and use groundwater. It should be noted that the list is not exhaustive, and if the conditions are to be included as part of a consent, they must be adapted and considered in light of the activity for which an applicant has applied. It should also be noted that there may be additional conditions that are required to mitigate an adverse effect that the following conditions do not address.

For abstractions that are a rate greater than 30 l/s, the following suite of conditions is commonly recommended.

1. Water may be taken only from bore [bore no], [diameter] millimetres diameter and [depth] metres deep, at map reference [map reference].
2. Water may be taken at a rate not exceeding [instantaneous rate] litres per second, with a volume not exceeding [volume] cubic metres in any period of [design return period] consecutive days, and [seasonal volume] cubic metres between 1st July and the following 30th June.
3. Water shall only be used for irrigation of crops and pasture for grazing stock, excluding milking dairy cows [and beef feedlot?], as described in the application, on the area of land shown in attached plan CRCxxxxxx, which forms part of this consent.
4. The consent holder shall, before the first exercise of this consent, install an easily accessible straight pipe(s), with no fittings or obstructions that may create turbulent flow conditions, of a length at least 15 times the diameter of the pipe, as part of the pump outlet plumbing or within the mainline distribution system.
5. The consent holder shall before the first exercise of this consent:
 - a. .
 - i. install a water meter(s) that has an international accreditation or equivalent New Zealand calibration endorsement, and has pulse output, suitable for use with an electronic recording device, which will measure the rate and the volume of water taken to within an accuracy of plus or minus five percent as part of the pump outlet plumbing, or within the mainline distribution system, at a location(s) that will ensure the total take of water is measured; and
 - ii. install a tamper-proof electronic recording device such as a data logger(s) that shall time stamp a pulse from the flow meter at least once every [specify time period - default = 15 minutes for takes with a "high" degree of hydraulic connection, 60 minutes for all others], and have the capacity to hold at least one season's data of water taken as specified in clauses (b)(i) and (b)(ii), or which is telemetered, as specified in clause (b)(iii).
 - b. The recording device(s) shall:
 - i. be set to wrap the data from the measuring device(s) such that the oldest data will be automatically overwritten by the newest data (i.e. cyclic recording); and
 - ii. store the entire season's data in each 12 month period from 1 July to 30 June in the following year, which the consent holder shall then download and store in a commonly used format and provide to the Canterbury Regional Council upon request in a form and to a standard specified in writing by the Canterbury Regional Council; or
 - iii. shall be connected to a telemetry system which collects and stores all of the data continuously with an independent network provider who will make that data available in a commonly used format at all times to the Canterbury Regional Council and the consent holder. No data in the recording device(s) shall be deliberately changed or deleted.

- c. The water meter and recording device(s) shall be accessible to the Canterbury Regional Council at all times for inspection and/or data retrieval.
 - d. The water meter and recording device(s) shall be installed and maintained throughout the duration of the consent in accordance with the manufacturer's instructions.
 - e. All practicable measures shall be taken to ensure that the water meter and recording device(s) are fully functional at all times.
6. The Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, shall be informed immediately on first exercise of this consent by the consent holder.
7. Within one month of the installation of the measuring or recording device(s), or any subsequent replacement measuring or recording device(s), and at five-yearly intervals thereafter, and at any time when requested by the Canterbury Regional Council, the consent holder shall provide a certificate to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, signed by a suitably qualified person certifying, and demonstrating by means of a clear diagram, that:
 - a. The measuring and recording device(s) has been installed in accordance with the manufacturer's specifications; and
 - b. Data from the recording device(s) can be readily accessed and/or retrieved in accordance with clauses (b) and (c) of condition (x).
8. The taking of water in terms of this permit shall cease for a period of up to 48 hours, on notice from the Canterbury Regional Council, to allow measurement of natural groundwater levels.
9.
 - a. If the irrigation system used to distribute water taken in terms of this permit is used to distribute effluent, fertiliser or any other added contaminant, a backflow preventer manufactured in accordance with AS 2845.1 (1998) or the American Society of Sanitary Engineers standards shall be installed within the pump outlet plumbing or within the mainline, to prevent the backflow of water into the bore.
 - b. The backflow preventer shall be tested to the standard set out in AS 2845.3 (1993) or an equivalent method within one month of its installation and annually thereafter by a suitably qualified person. A test report shall be provided to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within two weeks of each inspection.
10. The consent holder shall take all practicable steps to:
 - a. Ensure that the volume of water used for irrigation does not exceed that required for the soil to reach field capacity; and
 - b. Avoid leakage from pipes and structures; and
 - c. Avoid the use of water onto non-productive land such as impermeable surfaces and river or stream riparian strips.
11. The Canterbury Regional Council may, once per year, on any of the last [number of days-default=five] working days of [month1] [or month2], serve notice of its intention to review the conditions of this consent for the purposes of dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.
12. The lapsing date for the purposes of section 125 shall be [between 5 years and 5 years three months, date set for each quarter].

For abstractions that are at a rate less than 30 l/s, the following suite of conditions is commonly recommended.

1. Water may be taken only from bore [bore no], [diameter] millimetres diameter and [depth] metres deep, at map reference [map reference].
2. Water may be taken at a rate not exceeding [instantaneous rate] litres per second, with a volume not exceeding [volume] cubic metres in any period of [design return period] consecutive days, and [seasonal volume] cubic metres between 1st July and the following 30th June.

3. Water shall only be used for irrigation of crops and pasture for grazing stock, excluding milking dairy cows [and beef feedlot?], as described in the application, on the area of land shown in attached plan CRCxxxxxx, which forms part of this consent.
4. The consent holder shall, before the first exercise of this consent, install an easily accessible straight pipe(s), with no fittings or obstructions that may create turbulent flow conditions, of a length at least 15 times the diameter of the pipe, as part of the pump outlet plumbing or within the mainline distribution system.
5. The consent holder shall before the first exercise of this consent:
 - a. Install a water meter(s) that has an international accreditation or equivalent New Zealand calibration endorsement and has pulse output, suitable for use with an electronic recording device, which will measure the rate and volume of water taken within an accuracy of plus or minus five percent, as part of the pump outlet plumbing, or within the mainline distribution system, at a location(s) that will ensure the total take of water is measured.
 - b. Take a reading from the water meter at least [specify period, default = once per month]; record the date and the meter reading either electronically or in a log book kept for that purpose; and supply these data to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, each year during the month of June, or when requested in writing.
 - c. Ensure that the water meter is accessible to the Canterbury Regional Council at all times for inspection.
 - d. Ensure that the water meter is installed, maintained and operated throughout the duration of the consent in accordance with the manufacturer's instructions.
 - e. Take all practicable measures to ensure that the water meter is fully functional at all times.
6. The Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, shall be informed immediately on first exercise of this consent by the consent holder.
7. The consent holder shall, on notice in writing by the Canterbury Regional Council, by [date, default = six months from notice]:
 - a. Install a tamper-proof electronic recording device(s) such as a data logger(s) that shall time stamp a pulse from the flow meter at least once every [specify time period - default = 15 minutes for takes with a "high" degree of hydraulic connection, 60 minutes for all others]; and have the capacity to hold at least one season's data of water taken as specified in clauses (b)(i) and (b)(ii), or which is telemetered, as specified in clause (b)(iii).
 - b. The recording device(s) shall:
 - i. be set to wrap the data from the measuring device(s) such that the oldest data will be automatically overwritten by the newest data (i.e. cyclic recording); and
 - ii. store the entire season's data in each 12 month period from 1 July to 30 June in the following year, which the consent holder shall then download and store in a commonly used format and provide to the Canterbury Regional Council upon request in a form and to a standard specified in writing by the Canterbury Regional Council; or
 - iii. shall be connected to a telemetry system which collects and stores all of the data continuously with an independent network provider who will make that data available in a commonly used format at all times to the Canterbury Regional Council and the consent holder. No data in the recording device(s) shall be deliberately changed or deleted.
 - c. The recording device(s) shall be accessible to the Canterbury Regional Council at all times for inspection and/or data retrieval.
 - d. The recording device(s) shall be installed and maintained throughout the duration of the consent in accordance with the manufacturer's instructions.
 - e. All practicable measures shall be taken to ensure that the recording device(s) is fully functional at all times.

8. Within one month of the installation of the measuring or recording device(s), or any subsequent replacement measuring or recording device(s), and at five-yearly intervals thereafter, and at any time when requested by the Canterbury Regional Council, the consent holder shall provide a certificate to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, signed by a suitably qualified person certifying, and demonstrating by means of a clear diagram, that:
 - a. The measuring and recording device(s) has been installed in accordance with the manufacturer's specifications; and
 - b. Data from the recording device(s) can be readily accessed and/or retrieved in accordance with clauses (b) and (c) of condition (x).
9. The taking of water in terms of this permit shall cease for a period of up to 48 hours, on notice from the Canterbury Regional Council, to allow measurement of natural groundwater levels.
10.
 - a. If the irrigation system used to distribute water taken in terms of this permit is used to distribute effluent, fertiliser or any other added contaminant, a backflow preventer manufactured in accordance with AS 2845.1 (1998) or the American Society of Sanitary Engineers standards shall be installed within the pump outlet plumbing or within the mainline, to prevent the backflow of water into the bore.
 - b. The backflow preventer shall be tested to the standard set out in AS 2845.3 (1993) or an equivalent method within one month of its installation and annually thereafter by a suitably qualified person. A test report shall be provided to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within two weeks of each inspection.
11. The consent holder shall take all practicable steps to:
 - a. Ensure that the volume of water used for irrigation does not exceed that required for the soil to reach field capacity; and
 - b. Avoid leakage from pipes and structures; and
 - c. Avoid the use of water onto non-productive land such as impermeable surfaces and river or stream riparian strips.
12. The Canterbury Regional Council may, once per year, on any of the last [number of days-default=five] working days of [month1] [or month2], serve notice of its intention to review the conditions of this consent for the purposes of dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage
13. The lapsing date for the purposes of section 125 shall be [between 5 years and 5 years three months, date set for each quarter].

LAND USE PERMITS

Below follows a list of standard template conditions which are commonly recommended to be included on a land use permit to undertake works in the bed or bank of a river. It should be noted that the list is not exhaustive, and if the conditions are to be included as part of a consent, they must be adapted and considered in light of the activity for which an applicant has applied. It should also be noted that there may be additional conditions that are required to mitigate an adverse effect that the following conditions do not address.

Scope

2. The works shall be limited to:
 - (a) The use, erection, reconstruction, placement, alteration, extension, removal or demolition [select the appropriate description] of [structure] in, on or over [select the appropriate description] the bed.
 - (b) The excavation, drilling, tunneling or disturbance [select the appropriate description] of the bed.
 - (c) The introduction of [plant] in, on [select the appropriate description] the bed.
 - (d) The deposition of [substance] in, on, or under [select the appropriate description] the bed.
 - (e) The reclamation or drainage [select the appropriate description] of the bed.

Location

3. The works carried out in accordance with condition (x) shall be located at [name of watercourse], [title description, nearby road names] within the area outlined as "....." on Plan CRCXXXXXX at or about map reference(s) NZMS 260 XX : XXXX: XXXX. [Note: May need to have both an upstream and downstream map reference if delineating an area of works and to define the downstream limit to the works.]

Works/Construction

Limits of Excavation

4. Excavation shall not exceed a depth of [] metre(s) below the level of the natural riverbed prior to excavation.
5. Excavation shall not occur above the level of the flowing water contained in any channel adjacent to the active work site.
6. Excavation shall not exceed:
 - (a) A depth of [] metre(s) below the natural riverbed prior to excavation; and
 - (b) A level of 300 millimetres above the level of the flowing water contained in any channel adjacent to the active work site.
7. If further excavation at the site in the active riverbed is not to occur within seven days following the last working at the site, then the following shall occur:
 - (a) All deposits [excluding stockpiles] of gravel, sand and other natural material [including reject material] shall be levelled to the natural bed level;
 - (b) The excavation area shall be reshaped and formed to a state consistent with the surrounding natural river bed; and
 - (c) [Reject material shall be removed from the river bed]; and
 - (d) [Any temporary culverts as referred to in Condition () (b) shall be removed.]
8. Excavation shall not occur within 100 metres of birds, which are nesting or rearing their young in the bed of the river.
9. Prior to commencing excavation, a copy of this resource consent shall be given to all persons undertaking activities authorised by this consent.

Accidental Discovery Protocol

10. In the event of any disturbance of Koiwi Tangata (human bones) or taonga (treasured artefacts), the consent holder shall immediately:
 - (a) Advise the Canterbury Regional Council of the disturbance;
 - (b) Advise the Upoko Runanga of [Runanga], or their representative, and the New Zealand Historic Places Trust, of the disturbance; and
 - (c) Cease earthmoving operations in the affected area until an area has been marked off around the site, and Kaumatua and archaeologists have given approval for the earthmoving to recommence. Note: This condition is in addition to any agreements that are in place between the consent holder and the Upoko Runanga (Cultural Site Accidental Discovery Protocol) or the New Zealand Historic Places Trust.

Erosion Protection

11. All practicable measures shall be undertaken to ensure that works do not deflect floodwaters into the berm, including, but not limited to [.....].
12. Works shall not cause erosion of the banks and bed of the [watercourse].
13. Erosion controls shall be installed on all earthworks to prevent sediment from flowing into any surface water body.
14. Earthworks shall not be undertaken in a manner likely to cause erosion of, or instability to, the banks or bed of any surface water body.

Sediment Control

15. All practical measures shall be taken to minimise the disturbance of the bed of [watercourse], including, but not limited to [.....].
16. Works shall not occur during the period of [date to date (e.g. for protection of spawning fish)] inclusive, in any year.
17. Works shall not occur in flowing water.
18. All practicable measures shall be undertaken to prevent the discharge of sediment to the [stream], arising from the works, including, but not limited to [.....].
19. The consent holder shall adopt the best practicable options to:
 - (a) Minimise soil disturbance and prevent soil erosion;
 - (b) Prevent sediment from flowing into any surface water; and
 - (c) Avoid placing cut or cleared vegetation, debris, or excavated material in a position such that it may enter surface water.Including, but not limited to [detailed measures].
20.
 - (a) At least 20 working days prior to the commencement of the works, the consent holder shall submit to the Canterbury Regional Council, Attention: RMA Enforcement and Compliance Manager an Erosion and Sediment Control Plan (ESCP) that includes, but is not limited to the following:
 - (i) a locality map; and
 - (ii) detailed drawings showing the type and location of erosion and sediment control measures, on-site catchment boundaries, and off-site sources of run-off; and
 - (iii) drawings and specifications of all designated erosion and sediment control measures with supporting calculations; and
 - (iv) a programme of works, which includes but is not limited to a proposed timeframe for the works;

- (v) a schedule of inspections and maintenance of erosion and sediment control measures; and
 - (vi) details of when the erosion and sediment control measures are to be established and decommissioned; and
 - (vii) measures to ensure that there is no tracking of mud or earth onto the surrounding road network, including the provision of shaker ramps and/or wheel washes where appropriate; and
 - (viii) measures to be undertaken should erosion and sediment control measures fail and result in contamination of any watercourse or water body.
- (b) The ESCP shall be prepared in general accordance with the Environment Canterbury Erosion and Sediment Control Guidelines 2007 (ECAN ESC Guidelines).
 - (c) The ESCP shall be communicated to all persons undertaking activities authorised by this consent and a copy of the ESCP shall be kept on site at all times.
- 20.
- (a) The Erosion and Sediment Control Plan and any revisions of that document shall be submitted to the Canterbury Regional Council Attention: RMA Compliance and Enforcement Manager for certification that the Erosion and Sediment Control Plan meets all the requirements of the conditions of this consent.
 - (b) No activities authorised by this consent shall commence or be undertaken other than in full compliance with the Erosion and Sediment Control Plan that has been certified by or on behalf of the Canterbury Regional Council RMA Compliance and Enforcement Manager in terms of condition (7)(a).

During Operation

- 21.
- (a) All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery.
 - (b) There shall be no storage of fuel or refuelling of vehicles and machinery within 20 metres of the bed of a river.
 - (c) Fuel shall be stored securely or removed from site overnight.
22. All practicable measures shall be undertaken to minimise vehicles and machinery entering [watercourse], including, but not limited to [.....].
- 23.
- (a) Works shall not be carried out on weekends or public holidays.
 - (b) Works shall only occur between the hours of [] and [] inclusive.
- 24.
- (a) Access to the site shall be only via the existing access points across the stopbanks as indicated on the attached plan CRC...A.
 - (b) The consent holder shall ensure that whenever the access is used there is at least 200 millimetres of gravel on top of the crest of the stopbank, as indicated by plan CRC...B. Note: This consent does not grant access to the extraction area. This must be arranged with the landowner.
 - (c) Wherever access to the riverbed is gained across a stopbank, the consent holder shall ensure that whenever they use the access there is at least 200 millimetres of gravel on top of the crest of the stopbank, as indicated by plan CRCxxxxxx. Note: This consent does not grant access to the extraction area. This must be arranged with the landowner
- 25.
- (a) The consent holder shall take all practicable steps to avoid cementitious material entering [watercourse] including waste wash water from tools and machinery, including, but not limited to [.....].
 - (b) Cement shall be stored securely or removed from site overnight.

26. All practicable measures shall be undertaken to minimise adverse effects on property, amenity values, wildlife, vegetation, and ecological values.
27. The works shall not prevent the passage of fish, or cause the stranding of fish in pools or channels.
28. Machinery shall be free of plants and plant seeds prior to use in the riverbed.

Upon Completion

29. All disturbed areas shall be stabilised and regrassed following completion of the works.
30. All spoil and other waste material from the works shall be removed from site on completion of works.
31. On completion of works, the site shall be restored to its original condition, as specified in the design [CRCxxxxxx], as far as is practicable.
32. .
 - (a) Works shall not occur during the period [date to date] inclusive, in any year.
 - (b) All practicable measures shall be undertaken to prevent the discharge of sediment to the [name of waterway], arising from the works, including, but not limited to [....].
 - (c) All disturbed areas shall be stabilised and regrassed as soon as practicable following completion of the works.
 - (d) All spoil and other waste material from the works shall be removed from site on completion of works.
 - (e) On completion of works, the site shall be restored to its original condition as far as is practicable.

Administration

33. The Canterbury Regional Council, Attn: RMA Compliance and Enforcement Manager, shall be notified at least [] working days prior to [].
34. The Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, shall be notified not less than 48 hours prior to the commencement of works.
35. The Canterbury Regional Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent for the purposes of dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.
36. The lapsing date for the purposes of section 125 shall be [between 5 years and 5 years three months, date set for each quarter].

DISCHARGE PERMITS

Below follows a list of standard template conditions which are commonly recommended to be included on a permit to discharge water to a river or stream. It should be noted that the list is not exhaustive, and if the conditions are to be included as part of a consent, they must be adapted and considered in light of the activity for which an applicant has applied. It should also be noted that there may be additional conditions that are required to mitigate an adverse effect that the following conditions do not address.

Scope

1. a) Water shall only be discharged to the [waterbody] at or about map reference NZMS 260 [map reference], as shown on Plan [CRCnumber].
b) The discharge shall only be water from the [water race] irrigation race.
c) Water shall only be discharged at a rate not exceeding [xxx] litres per second.

Operation and Maintenance

2.
 - (a) All practicable measures shall be undertaken to avoid erosion of the bed or banks of the [waterbody] occurring as a result of the discharge.
 - (b) In the event of any erosion occurring to the bed or banks of the [waterbody], as a result of the discharge, the consent holder shall be responsible for rectifying the situation as soon as practicable.
3. The discharge, after reasonable mixing, shall not cause a change in the colour or a reduction of the clarity of the receiving water body.

Measuring and Monitoring

4. The consent holder shall before the first exercise of this consent:
 - a. install a water meter(s) that has an international accreditation or equivalent New Zealand calibration endorsement, which will measure the rate and the volume of water discharged to within an accuracy of plus or minus five percent, at a location that will ensure the total discharge of water is measured;
 - b. Take a reading from the water meter at least [specify period, default = once per month]; record the date and the meter reading either electronically or in a log book kept for that purpose; and supply this data to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, each year during the month of June, or when requested in writing.
 - c. Ensure that the water meter is accessible to the Canterbury Regional Council at all times for inspection.
 - d. Ensure that the water meter is installed, maintained and operated throughout the duration of the consent in accordance with the manufacturer's instructions.
 - e. Take all practicable measures to ensure that the water meter is fully functional at all times.

Administration

5. The Canterbury Regional Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent for the purposes of dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.

6. The lapsing date for the purposes of section 125 shall be 31 March 2013.

ADMINISTRATIVE CONDITIONS

Below follows a list of standard conditions which are commonly used for administrative purposes, and which may be used in conjunction with, or in substitution for, administration conditions included in the standard suites of conditions for each permit type.

Joint Liability

1. The holders of this resource consent shall be jointly and severally liable for compliance with the conditions of this consent.

Review

2. The Canterbury Regional Council may, once per year, on any of the last [number of working days – default = 5] working days of [month 1] or [month 2], serve notice of its intention to review the conditions of this resource consent for the purposes of dealing with any adverse effect on the environment which may arise from the exercise of the resource consent and which it is appropriate to deal with at a later stage, including
 - (i) any cumulative adverse effect on a waterway arising from abstractions; and
 - (ii) amending the flow in the [waterbody] at which abstraction is required to be reduced or discontinued as set out in condition [].

Non-concurrent Use

3. This consent shall not be exercised concurrently with consent CRC... or any subsequent replacement consent.
4. This consent shall not be exercised concurrently with either or both consents [] and [].