
RESOURCE CONSENT CRC122897

Pursuant to Section 104 of the Resource Management Act 1991

The Canterbury Regional Council (known as Environment Canterbury)

GRANTS TO:	Waimakariri Irrigation Limited
A LAND USE CONSENT (S9):	To use land for earthworks associated with the construction, maintenance and use of storage ponds and associated infrastructure.
COMMENCEMENT DATE:	28 Aug 2020
DATE CONSENT NUMBER ISSUED:	28 Aug 2020
EXPIRY DATE:	28 Aug 2055
LOCATION:	Cnr Wrights Road & Dixon Road, BURNT HILL

SUBJECT TO THE FOLLOWING CONDITIONS:

Activity Authorised

- 1 The works shall be limited to the use of land to excavate material for the purposes of the construction, use and maintenance of storage ponds and associated infrastructure which shall occur on land parcel Lot 1 DP 27020, located on the corner of Wrights Road and Dixons Road, Burnt Hill, at or about map reference Topo BW22:3480-9720, as shown on **Plan CRC122897A** (the site), which forms part of this consent.
- 2 Except as required by the subsequent conditions, the Waimakariri Irrigation Storage Ponds shall be constructed and used in accordance with the information submitted with the application and as amended through the hearing of the applications:
 - a. in a joint hearing between the Canterbury Regional Council and the Waimakariri District Council;
 - b. in the hearing of an appeal to the Environment Court, with a final decision of the Environment Court being issued on 28 August 2020, and including:
 - c. the document entitled Assessment of Environmental Effects for the Construction and use of Wrights Road Storage Ponds, prepared for Waimakariri Irrigation Limited by Pattle Delamore Partners, dated November 2013;
 - d. the report entitled Waimakariri Irrigation Ponds - Design Report, prepared for Waimakariri Irrigation Limited by Damwatch (Issue 4 - dated 9 December 2015), including Construction Drawings (*Design Report*); and Technical Specifications (Issue 5) (*Technical Specifications*), and in each case inclusive of any approved amendments or updates.

Review and certification

- 3 Where a condition of this consent refers to a *review or certification by an independent certifier*, unless the context otherwise requires, that means:
- a. the reviewer or certifier shall be a suitably qualified and registered Chartered Professional Engineer and who, where the review or certification relates to matters of dam design, construction, or the preparation and peer review of documentation required for large dams, has a minimum of 10 years' experience in those activities and is a *Category A Recognised Engineer for the purposes of the New Zealand Society on Large Dams(NZSOLD) New Zealand Dam Safety Guidelines 2015 (NZSOLD Guidelines)*;
 - b. the reviewer or certifier shall be independent of the Consent Holder, dam designers and construction contractors;
 - c. the reviewer or certifier shall be approved by the Manager, RMA Monitoring and Compliance, Canterbury Regional Council;
 - d. the Consent Holder is responsible for appointing the reviewer or certifier and all costs of certification;
 - e. The Consent Holder shall implement any documentation changes and remedial actions recommended by the reviewer or certifier; and
 - f. the Consent Holder shall provide to the Manager, RMA Monitoring and Compliance, Canterbury Regional Council, written certification from the reviewer or certifier that the documentation, design, system or processes subject of the respective consent condition(s) are in accordance with good engineering practice and are consistent with the *NZSOLD Guidelines* including any amendment or update current at the time of certification and the documents listed in condition 2.

Advisory Note: *When determining the independent certifier for the purposes of this consent, preference shall be given to, if available, engaging one of the Peer Reviewers involved in the original consent application on the basis of familiarity with the project.*

PRE-CONSTRUCTION

Construction Management Plan

- 4 At least 3 months prior to construction commencing on site, the Consent Holder shall provide to the Manager Monitoring and Compliance Canterbury Regional Council, a final Waimakariri Irrigation Storage Ponds Construction Management Plan (CMP). The CMP shall:
- a. be prepared by a suitably qualified and experienced person(s); and
 - b. contain certification by a suitably qualified and experienced person(s) that the CMP meets the objectives and performance standards set out in Conditions 8 and 9.
- 5 Construction work and associated activities shall not commence at the site until: the CMP has been accepted by the Manager, RMA Monitoring and Compliance, Canterbury Regional Council; and the Consent Holder has received written notice of acceptance; and the first meeting is held with Community Liaison Group (CLG).

- 6 Should the Manager, RMA Monitoring and Compliance, Canterbury Regional Council refuse to accept the CMP in accordance with the conditions, the Consent Holder shall provide a revised CMP to the Canterbury Regional Council for acceptance as soon as possible.
- 7 All activities authorised under this consent shall be undertaken in accordance with the CMP, which will be monitored by the Waimakariri District Council (WDC) and Canterbury Regional Council.

Advisory note: where necessary WDC and Canterbury Regional Council will determine which is to be the lead agency on particular aspects of the CMP where joint responsibilities exist and will advise the Consent Holder and the CLG accordingly.

Construction objectives for CMP

- 8 The objectives for the CMP for all construction activities managed under it are to:
- a. ensure that the construction activities achieve compliance with the conditions of consent for these activities;
 - b. minimise the release of sediment, either to water or to air, during construction activities;
 - c. provide a method to ensure that the Consent Holders' contractors and agents implement the CMP, so that compliance with conditions of consent for construction effects can be achieved;
 - d. ensure all construction is undertaken in accordance with methods that provide for a review by an independent expert (as determined in accordance with the *NZSOLD Guidelines* in dam quality assurance) of the overall construction methodology;
 - e. ensure a copy of the current CMP is available on-site at all times;
 - f. minimise the extent or time that areas of the site disturbed; and
 - g. integrate good environmental practice into construction activities.

Performance standards for CMP

- 9 The CMP shall include, but not be limited to:
- a. the steps that will be undertaken during construction to ensure the Waimakariri Irrigation Ponds - Technical Specification and the conditions of this consent are complied with;
 - b. methods of the works, including but not limited to, the staging of the works, the site layout plan and procedures to be used;
 - c. an erosion and sediment control plan prepared in accordance with conditions 19 and 20 below;
 - d. details of measures shall be identified and implemented to avoid the entrainment of oil, fuels or any other hazardous substances in stormwater, with particular emphasis on re-fuelling areas and repair areas;

- e. details of the interrelationship with the quality assurance programme, including the review by an independent expert in dam quality assurance of construction processes as required by conditions 10 to 16 of this consent;
- f. details on how compliance with the Worksafe Good Practice Guideline for Excavation Safety (July 2016) will be achieved;
- g. details of measures taken to be identified and implemented to prevent unauthorised access to and/or the unauthorised deposition of material into the excavated areas; and
- h. details addressing the need to avoid rocks puncturing the liner or incorporation of that information into Technical Specification, Section 4.4.

Quality Assurance and Quality Control Plan

- 10 Prior to construction activities commencing on the site the Consent Holder must prepare a Quality Assurance and Quality Control Plan to be incorporated into the Construction Management Plan.
- 11 The Consent Holder shall appoint a suitably qualified and registered Chartered Professional Engineer who has a minimum of 10 years in dam design, construction, and the preparation and peer review of documentation required for large dams, and who is a *Category A Recognised Engineer* for the purposes of the *NZSOLD Guidelines* to act as an independent certifier to ensure the Quality Assurance and Quality Control Plan is being compiled with at all times (the *Quality Assurance Reviewer*).
- 12 Construction activities shall not commence at the site until the Quality Assurance and Quality Control Plan has been accepted by the Manager, RMA Monitoring and Compliance, Canterbury Regional Council and that acceptance advised by notice in writing to the Consent Holder.
- 13 Should the Manager, RMA Monitoring and Compliance, Canterbury Regional Council refuse to accept the Quality Assurance and Quality Control Plan in accordance with these conditions, the Consent Holder shall provide a revised Quality Assurance and Quality Control Plan to the Canterbury Regional Council for acceptance as soon as is practicable.
- 14 All construction activities authorised under this consent shall be undertaken in accordance with the Quality Assurance and Quality Control Plan.

Objectives of the Quality Assurance and Quality Control Plan

- 15 The objectives of the Quality Assurance and Quality Control Plan shall be to:
 - a. ensure that the construction activities achieve compliance with the conditions of consent for these activities;
 - b. ensure that the Technical Specification is complied with at all times during construction;
 - c. provide for:
 - i. quality planning - as to which quality standards are relevant to the construction process throughout the duration of construction;

- ii. quality assurance - as to evaluating the construction undertaken on a regular basis to provide confidence that the project will satisfy the relevant quality standards; and
- iii. quality control - as to monitoring specific information as necessary to enable determination of compliance with the relevant quality standards as set out in the Technical Specification and the conditions of this consent.

Performance standards for the Quality Assurance and Quality Control Plan

- 16 The Quality Assurance and Quality Control Plan shall include, but not be limited to:
- a. ensuring the embankment construction meets the requirements of section 4.1.3 of the Technical Specification, (including all associated piping and control structures) and the conditions of this consent;
 - b. detail on how the HDPE geomembrane liner complies with the Technical Specification, the conditions of this consent and all management plans, including:
 - i. the QA/QC Manual and summary inspection test and test plan required by section 6.6.2 of the Technical Specification;
 - ii. the results of manufacturer and external laboratory testing of the geomembrane liner and the adequacy of testing to ensure it has the properties set out in section 6.5 of the Technical Specifications;
 - iii. the accurate identification of enhanced geomembrane liner rolls for pond corner areas set out in section 6.9.5 of the Technical Specifications;
 - iv. the installation of the geomembrane liner and test coupons as required by the Technical Specification and the conditions of this consent and consent CRC120610; and
 - v. methods for ensuring the on-going monitoring complies with the Technical Specification and the conditions of this consent;

and

- c. the review by the Quality Assurance Reviewer of all information relating to construction activities that is received by the Canterbury Regional Council under the conditions of this consent, and procedures to ensure that review.

Maximum depth of excavations

- 17 Prior to any construction occurring on the site, the natural ground level shall be identified and recorded utilising conventional land survey methodology. The maximum depth of excavation shall not exceed 6 metres below that established natural ground level.

CONSTRUCTION

Supervision, implementation, and amendment of the Construction Management Plan

- 18 The Consent Holder shall comply with the certified CMP and Quality Assurance and Quality Control Plan at all times.
- 19 The CMP shall include details of the name, experience and qualifications of the Quality Assurance Reviewer.
- 20 The CMP (including the Quality Assurance and Quality Control Plan) shall be reviewed by the Consent Holder and the person nominated in accordance with condition 19 every three months following the commencement of the construction works. The review shall evaluate the CMP, any entries in the complaints register (as required as a part of the conditions of WDC consent **RC135478**) and any monitoring data and communications to, or from, the WDC and the Canterbury Regional Council. The results of the review shall be recorded in writing and sent to the Manager, RMA Monitoring and Compliance, Canterbury Regional Council, within two weeks of the completion of the review. If necessary, the CMP shall be reviewed by a suitably qualified and experienced person to improve its effectiveness in delivering the objectives and matters provided for in these conditions and to ensure compliance with the conditions of this consent.

Erosion and Sediment Control

- 21 Any amendment of the CMP shall be subject to certification in accordance with condition 3 and provided to the Manager, RMA Monitoring and Compliance, Canterbury Regional Council. Construction activities subject to the variation shall not commence until the variation has been accepted by the Canterbury Regional Council and notified in writing to the Consent Holder.
- 22 The Consent Holder shall:
- a. adopt and implement the best practicable options to prevent the discharge of sediment and contaminants into excavated land and surface water. These shall include but not be limited to:
 - i. measures necessary to provide for soakage of stormwater;
 - ii. inclusion or maintenance of a vegetated strip between earthworks and water races;
 - iii. siting of stockpiles to prevent sediment-entrained runoff entering races or going off-site;
 - iv. stabilisation and maintenance of site entrances from public roads;
 - and
 - b. ensure that erosion and sediment control measures are established and maintained in general accordance with the Environment Canterbury's *"Erosion and Sediment Control Toolbox for the Canterbury Region"* which can be accessed under <http://esccanterbury.co.nz/>.

Importation of Materials

- 23 Where it is necessary to import material to the site to construct, use and maintain the storage ponds the imported material shall meet the criteria of clean fill (as defined in the Ministry for the Environment Guide to Managing Cleanfills).

- 24 The delivery of cleanfill material sources outside of the site shall be supervised by the Consent Holder (or designated agent) at all times. A record of all material brought onto the site shall be kept. The record shall include:
- a. the name of the person and company that delivered the clean fill to the site;
 - b. the date of deposition;
 - c. the source of the material;
 - d. the volume of the material deposited; and
 - e. where on the site the material is deposited.

Notification

- 25 The Consent Holder shall be responsible for all the contracted operations relating to the exercise of this consent, and shall ensure that all personnel working on the site are aware of and have a copy of this consent and shall ensure compliance with consent conditions.
- 26 The Manager, RMA Monitoring and Compliance, Canterbury Regional Council, shall be notified of:
- a. the intention to exercise this consent at least three months prior to the commencement of any activities under this consent;
 - b. the imminent commencement of works, no more than seven days and no less than 48 hours prior to commencement of the works authorised by this consent;
 - c. the intention to complete construction works, no more than six months and no less than three months prior to the cessation of construction activity; and
 - d. the date construction activity ceases, no more than 48 hours after construction activity ceases.

Accidental Discovery

- 27 In the event of any disturbance to Kōiwi Tangata (human bones) or taonga (treasured artefacts), the Consent Holder shall immediately follow the Accidental Discovery Protocol set out in Appendix 3 of the Māhānui Iwi Management Plan, and attached to this consent as **Attachment CRC122897A**.

Review

- 28 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.

Administration Charges

- 29 The Consent Holder shall pay to the Canterbury Regional Council any administrative charges fixed in accordance with s 36 RMA. The administrative charges shall be paid to the Canterbury Regional Council for the carrying out of its functions in relation to the administration, monitoring and supervision of this consent and for carrying out its functions under s35 RMA.

Other Charges or costs

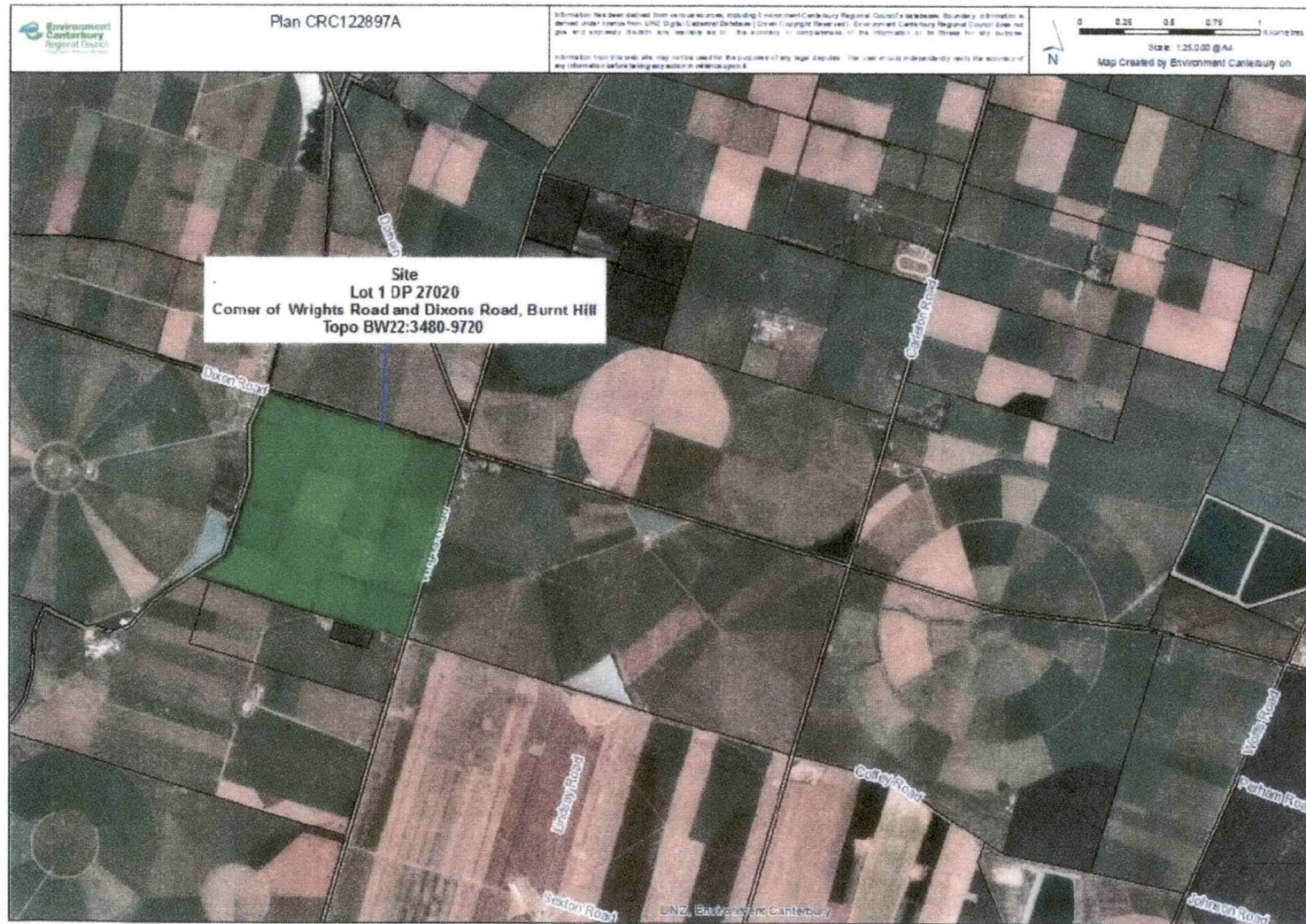
- 30 The Consent Holder shall pay all costs relating to certification or engagement of others to undertake any actions or services required in terms of these conditions.

Lapse Date

- 31 The lapsing date for the purposes of s 125 shall be five years from the date of commencement of this consent.

Issued at Christchurch on 12 October 2020

Canterbury Regional Council



Exercising of Resource Consent CRC122897

It is important that you notify Environment Canterbury when you first start using your consent.

GRANTED TO:	Waimakariri Irrigation Limited
A LAND USE CONSENT (S9):	To use land for earthworks associated with the construction, maintenance and use of storage ponds and associated infrastructure.
LOCATION:	Cnr Wrights Road & Dixon Road, BURNT HILL

Even if the consent is replacing a previous consent for the same activity, you need to complete and return this page.

A consent can only be made active after the activity has commenced and all pre-requisite conditions have been fulfilled e.g. installation of water meter and/or fish screen. If you require further advice, please contact our Customer Services section on 0800 324 636 or by email at ecinfo@ecan.govt.nz.

Providing this information will:

- Validate your consent through to its expiry date
- Minimise compliance monitoring charges
- Help provide an accurate picture of the state of the environment.

If consent CRC122897 is not used before 28 August 2025 this consent will lapse and no longer be valid.

Declaration:

I have started using this resource consent.

Action taken (e.g. pasture irrigated, discharge from septic tank/boiler/spray booth etc):

Date I started using this resource consent (Note: this date cannot be in the future): _____

Signed: _____ **Date:** _____

Full name of person signing (please print): _____

Please return to:

**Business Support
Environment Canterbury
PO Box 345
Christchurch 8140**

**Fax: (03) 365 3194
Email: ecinfo@ecan.govt.nz**

**File: CO6C/33499
Customer No: EC111432**