

Conditions of CRC215100 for a s14 water permit to take groundwater for dewatering and the permanent diversion of a surface waterbody

Duration: 35 years

Limits

1. The take and diversion of water shall be only:
 - a. The take of groundwater for the purposes of site dewatering during construction; and
 - b. The diversion of the Cam / Ruataniwha River via a realigned stream channel, as shown on Plan CRC215100A [plan showing realigned channel] attached to and forming part of this consent;

at the development at 52 and 76 Kippenberger Avenue, legally identified as Part RS 267 and Lot 1 DP 22674, as shown on Plan CRC215100.A [plan showing site location and extent of development] attached to and forming part of this consent.

Advice note: *This resource consent does not authorise the diversion of flows during construction, as works will be undertaken during times when there is no flow in the Cam / Ruataniwha River channel on the site.*

Pre-commencement requirements

2. The consent holder shall notify the Canterbury Regional Council, Attention: Regional Leader – Monitoring and Compliance in writing not less than five working days prior to the commencement of works.
3. Prior to the commencement of any works described in Condition (1), personnel working in the development area shall be made aware of, and have access to, the following:
 - a. A copy of this resource consent;
 - b. Construction Management Plan;
 - c. Spill Response Plan;
 - d. Dust Management Plan; and
 - e. Consent documents CRC215099 (s 13), CRC215100 (s 14) and CRC215101 (s 15), any associated documents, and any variation thereof.

Dewatering

4. The rate of take of groundwater for dewatering purposes shall not exceed 425 litres per second.
5. The duration of the take of groundwater for dewatering shall not exceed six weeks.
6. During the dewatering, either:
 - a. The water level in bore M35/0370 shall be monitored continuously, or using daily inspections. If water levels reduce to a level that will prevent water from being taken:

- i. dewatering shall cease until alterations to the dewatering method are implemented to avoid interference effects that prevent water from being taken; or
 - ii. an alternative water supply shall be provided;
 - or
 - b. an alternative water supply shall be provided to bore users from the outset until the completion of dewatering.
- 7. Prior to the commencement of groundwater pumping and dewatering activities authorised by this consent, two pressure transducers shall be installed in existing **bore BH07** ~~-(shown on CRC215100 Figure 1)-~~

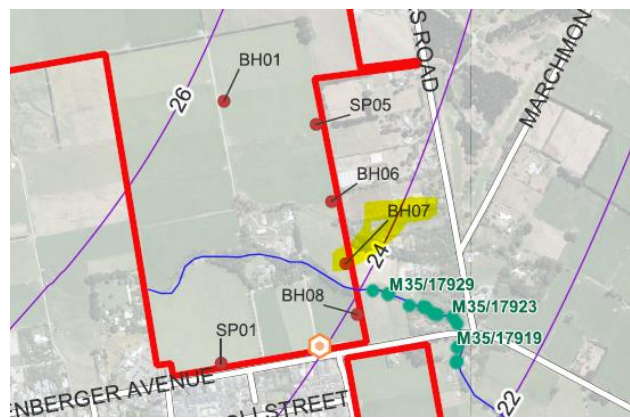


Figure 1. Location of BH07

- a. During the first week of dewatering works, monitoring shall be undertaken in accordance with the following:
 - i. one of the pressure transducers installed shall record total pressure at 5-minute intervals;
 - ii. a separate second pressure transducer shall record barometric pressure at the site; and
 - iii. the groundwater pumping rate shall be measured electronically with a flow meter to an accuracy of +/- 5 %.
- 8. In addition to Condition 7, the water level in BH07 shall be manually monitored 1 hour, 15 minutes and 5 minutes prior to the commencement of dewatering; and 1 hour, 4 hours and 24 hours after the commencement of dewatering activities. If:
 - a. there is evidence from the manual monitoring that drawdown exceeding 0.25 m may be occurring in BH07, then the data recorded from the pressure transducers installed as per Condition 7 should be downloaded and assessed to confirm the scale of drawdown; or
 - b. there is no evidence from the manual monitoring that drawdown is exceeding 0.25 m in BH07 then the data recorded from the pressure transducer shall be downloaded and

assessed after 7 days of groundwater pumping and dewatering to confirm the scale of drawdown.

9. Where the requirements of conditions 8(a) or 8(b) confirm that there is drawdown exceeding 0.25 m in BH07, a revised drawdown interference assessment should be carried out by a suitably qualified person as per the methodology in Schedule 12 of the LWRP. The assessment should:
 - a. be provided to the Canterbury Regional Council within 48 hours of the transducer data download in BH07 occurring in accordance with Condition 8;
 - b. confirm whether the groundwater pumping and dewatering activities could prevent the taking of water in any neighbouring community, group or private drinking water supply bores; and
 - c. take into account the pumping rates and volumes that have previously been abstracted at the site and provide predictions of potential effects for future pumping rates that may exceed those abstracted previously.
10. Where an assessment carried out under condition 9 indicates any community, group or private drinking water bores will have water levels reduce to a level that will prevent water from being taken:
 - a. dewatering shall cease until alterations to the dewatering method are implemented to avoid interference effects that prevent water from being taken;
 - b. a change in dewatering programme shall occur to minimise interference effects;
 - c. relocation of the dewatering discharge to reduce the drawdown in neighbouring bores to an acceptable level whereby no bores will not be prevented from taking water; or
 - d. an alternative temporary water supply shall be provided.
11. Where the requirements of conditions 8(a) or 8(b) do not identify drawdown exceeding 0.25 m in BH07, then the water level measurements required by Conditions 7 and 8 are to terminate after 7 days ~~of from~~ the commencement from the dewatering.

Diversion of the Cam / Ruataniwha River

12. Water shall be diverted to a newly constructed open channel realignment that has equal to or greater flow capacity than the existing alignment.
13. The diversion shall not cause erosion of the bed or banks of the Cam / Ruataniwha River.
14. Water shall only be diverted into the newly constructed channel of the Cam / Ruataniwha River once the channel bed and banks have been stabilised.

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:
 - a. Dealing with any adverse effect on the environment that may arise from the exercise of the consent or
 - b. Requiring the adoption of the best practicable option to remove or reduce any adverse effect on the environment.
16. If this consent is not exercised before 31 March 2027 it shall lapse in accordance with section 125 of the Resource Management Act 1991.