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# RESOURCE CONSENT CRC212191

*Under Section 104 of the Resource Management Act 1991*

## The Canterbury Regional Council (known as Environment Canterbury)

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GRANTS TO:	Selwyn District Council
A LAND USE CONSENT (S9):	To excavate land and remove vegetation.
COMMENCEMENT DATE:	13 Jul 2023
DATE CONSENT NUMBER ISSUED:	13 Jul 2023
EXPIRY DATE:	13 Jul 2028
LOCATION:	Road reserve along Harmans Road, adjacent 160 and 178 Harmans Road, 178 Harmans Road, 60 Leeston Dunsandel Road, 2 Leeston Dunsandel Road, Leeston

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### ***SUBJECT TO THE FOLLOWING CONDITIONS:***

#### **LIMITS**

- 1 The works authorised by this resource consent shall be limited to earthworks and vegetation removal associated with:
  - a. The new stormwater bypass channel, as shown on Plan CRC212191, attached to and forming part of this resource consent; and
  - b. The upgrades to Leeston Creek as shown on Plan CRC212191, attached to and forming part of this resource consent.

***Advice Note:*** Prior to any works within a private property, the consent holder shall obtain all necessary property access agreements from the property owner, including in accordance with the Public Works Act and Local Government Act, as relevant.

***Advice Note.*** This resource consent does not authorise the take of groundwater for the purpose of dewatering or any other purpose. An additional resource consent may be required for the take of groundwater under Section 14 of the Resource Management Act 1991 if the conditions of Rule 5.119 of the LWRP are not met.

- 2 The location of works authorised under Condition (1) shall be undertaken within the general area shown on Plan CRC212191, attached to and forming part of this resource consent, between map references:
  - a. NZTM2000 1542261 mE 5155430 mN;
  - b. NZTM2000 1542765 mE 5155160 mN; and
  - c. NZTM2000 1543678 mE 5154877 mN.

**PRIOR TO COMMENCEMENT OF WORKS**

- 3 Prior to the works described in Condition (1) all personnel working on the site shall be made aware of, and have access to, the following:
- a. The contents of this document and all associated documents;
  - b. Resource Consents CRC212192, CRC212193 and CRC212194; and
  - c. The Indicative Planting Plan prepared by Selwyn District Council, 2023.
  - d. The Erosion and Sediment Control Plan required to be prepared under this resource consent.
- 4 A pre-construction meeting shall be held between the Canterbury Regional Council and all relevant parties, including the primary contractor, prior to the commencement of any works. At a minimum, the following shall be covered in the meeting:
- a. Scheduling and staging of the works;
  - b. Responsibilities of all relevant parties;
  - c. Contact details for all relevant parties;
  - d. Expectations regarding communication between all relevant parties;
  - e. Procedures for implementing any amendments;
  - f. Site inspection; and
  - g. Confirmation that all relevant parties have copies of the contents of this consent document and all associated erosion and sediment control plans and methodology.

**PLANTING PLAN**

- 5 All works outlined in Condition (1) shall occur in accordance with the *Indicative Planting Plan, Selwyn District Council, 2023* (IPP). The IPP may be amended at any time. Any amendments shall be:
- a. Consistent with the conditions of this resource consent; and
  - b. Submitted in writing to the Canterbury Regional Council, Attention: Regional Leader - Compliance Monitoring, prior to any amendment being implemented.

**EROSION AND SEDIMENT CONTROL PLAN**

- 6 The activities authorised by this resource consent shall occur in accordance with an ESCP. The ESCP shall:
- a. Detail best practicable sediment control measures that will be taken to ensure compliance with this resource consent.
  - b. Be prepared by a suitably qualified person with experience in erosion and sediment control in accordance with:
    - i. Canterbury Regional Council's "Erosion and Sediment Control Toolbox for the Canterbury Region" (ESCT), which can be accessed under <http://escscanterbury.co.nz/>; or

- ii. an equivalent industry guideline. If an alternative guideline is used, the ESCP shall provide details of the relevant alternative methods used and an explanation of why they are more appropriate than the ESCT.
- c. Be signed by a suitably qualified person with experience in erosion and sediment control, confirming that the erosion and sediment control measures for the site are appropriately sized and located in accordance with the ESCT.

7 The ESCP shall:

- a. Include a map showing the location of all works;
- b. Detailed plans showing the location of sediment control measures, on-site catchment boundaries, and sources of runoff;
- c. Include a confirmation that the erosion and sediment control devices have been sized appropriately in accordance with the ESCT;
- d. Include drawings and specifications of designated sediment control measures, if these are not designed and installed in accordance with the ESCT;
- e. Include a programme of works, including a proposed timeframe for each stage of the works and the earthworks methodology;
- f. Detail the management of any stockpiled material;
- g. Detail inspection and maintenance of the sediment control measures;
- h. Detail sampling procedures and protocols;
- i. Include a description of dust mitigation to be used and details of best practicable options to be applied to mitigate dust and sediment discharge beyond the site boundary;
- j. Detail the methodology for stabilising the site if works are abandoned; and
- k. Detail the methodology for stabilising the site and appropriate decommissioning of all erosion and sediment control measures after works have been completed.

8 The ESCP shall be submitted to the Canterbury Regional Council, Attention: Regional Leader - Compliance Monitoring, at least ten working days prior to works commencing, for certification that it complies with the ESCT and the conditions of this consent.

- a. The activities described in Condition (1) shall not commence until certification has been received from the Canterbury Regional Council that the ESCP is consistent with the ESCT or equivalent industry guideline as per the requirements under Condition (6)(c), and the conditions of this resource consent.
- b. Notwithstanding Condition (6)(a), if the ESCP has not been reviewed and/or certified within ten working days of the Regional Leader- Compliance Monitoring receiving the ESCP, the works may commence.

9 The ESCP may be amended at any time. Any amendments shall be:

- a. Only for the purpose of improving the efficacy of the erosion and sediment control measures and shall not result in reduced discharge quality;

- b. Consistent with the conditions of this resource consent; and
- c. Submitted in writing to the Canterbury Regional Council, Attention: Regional Leader Compliance Monitoring, prior to any amendment being implemented.

- 10 Erosion and sediment control measures shall be inspected at least once per day, as well as following any rainfall event that results in more than five millimetres of rainfall at the site. Any accumulated sediment shall be removed, and repairs made, as necessary, to ensure effective functioning of devices. Records of any inspections shall be kept and provided to the Canterbury Regional Council on request.
- 11 If the consent holder abandons work on-site, adequate preventative and remedial measures shall be taken to control sediment discharged from exposed or unconsolidated surfaces. These measures shall be maintained for so long as necessary to prevent sediment discharges from the earth worked areas.

### **DURING WORKS**

- 12 For each stage of the earthworks, erosion and sediment control measures shall be installed in accordance with the requirements of this resource consent prior to earthworks commencing and shall not be decommissioned until all exposed areas are stabilised.

**Advice Note:** *For the purposes of this consent, earthworks means the disturbance of land surfaces by blading, contouring, ripping, moving, removing, placing or replacing soil and earth, or by excavation, or by cutting or filling operations.*

- 13 During works best practicable options shall be adopted to:
- a. Minimise soil disturbance and prevent soil erosion;
  - b. Minimise the area of disturbed land at any one time; and
  - c. Avoiding placing cut or cleared vegetation, debris, or excavated material in a position that it may enter groundwater or surface water.

### **ACCIDENTIAL DISCOVERY PROTOCOL**

- 14 In the event of any discovery of archaeological material the consent holder must immediately:
- a. Cease earthmoving operations in the affected area and mark off the affected area;
  - b. Advise the Canterbury Regional Council of the disturbance; and
  - c. Advise Heritage New Zealand Pouhere Taonga (HNZPT) of the disturbance.

**Advice Note:** *Affected area means the whole or any part of any site known or reasonably suspected to be an archaeological site, and which could be disturbed or otherwise impacted by any works.*

**Advice Note:** *This condition may be in addition to any agreements that are in place between the consent holder and the Papatipu Runanga. (Cultural Site Accidental Discovery Protocol).*

**Advice Note:** Under the Heritage New Zealand Pouhere Taonga Act 2014 an archaeological site is defined as any place associated with pre-1900 human activity, where there is material evidence relating to the history of New Zealand. For sites solely of Maori origin, this evidence may be in the form of accumulations of shell, bone, charcoal, burnt stones, etc. In later sites, artefacts such as bottles or broken glass, ceramics, metals, etc. may be found or evidence of old foundations, wells, drains, tailings, races or other structures. Human remains/koiwi may date to any historic period. It is unlawful for any person to destroy, damage, or modify the whole or any part of an archaeological site without the prior authority of Heritage New Zealand Pouhere Taonga. This is the case regardless of the legal status of the land on which the site is located, whether the activity is permitted under the District or Regional Plan or whether a resource or building consent has been granted. The Heritage New Zealand Pouhere Taonga Act 2014 provides for substantial penalties for unauthorised damage or destruction.

- 15
  - a. If accidentally discovered material is suspected to be Koiwi Tangata (human bones), taonga (treasured artefacts) or a Maori archaeological site:
    - i. the consent holder must immediately advise the office of the Kaitiaki Runanga (office contact information can be obtained from the Canterbury Regional Council) of the discovery; and
    - ii. the nature of the material must be confirmed by a qualified archaeologist appointed by the Kaitiaki Runanga and HNZPT.
  - b. If the archaeological material is determined to be Koiwi Tangata (human bones) by a qualified archaeologist, the consent holder must:
    - i. immediately advise the New Zealand Police of the disturbance;
    - ii. consult with the Kaitiaki Runanga on any matters of tikanga (protocol) that are required in relation to the discovery and prior to the commencement of any investigation; and
    - iii. treat the area with utmost discretion and respect and manage the koiwi in accordance with both statutory obligations under the HNZPT Act 2014 and tikanga, as guided by the Kaitiaki Runanga.
  - c. Works in the site area must not recommence until authorised by the Kaitiaki Runanga, HNZPT (and the NZ Police in the case of koiwi) and any other authority with statutory responsibility, to ensure that all statutory and cultural requirements have been met.

- 16 If accidentally discovered material is not suspected or confirmed to be Koiwi Tangata (human bones), taonga (treasured artefacts) or a Maori archaeological site, work may recommence once Heritage New Zealand Pouhere Taonga Trust advises the consent holder that work can recommence.

## **ACCIDENTIAL DISCOVERY OF CONTAMINATED MATERIAL**

- 17 In the event that any unexpected contaminated soil or material is uncovered by the works, an accidental discovery protocol shall be implemented, including but not limited to the following steps:
  - a. Earthworks within ten metres of the encountered contaminants shall cease immediately;

- b. All practicable steps shall be taken to prevent the contaminated material becoming entrained in stormwater. Immediate steps shall include, where practicable:
  - i. diverting any stormwater runoff from surrounding areas away from the contaminated material; and
  - ii. minimising the exposure of the contaminated material, including covering the contaminants with an impervious cover;
- c. Notification of the Canterbury Regional Council, Attention: Contaminated Sites Manager and Regional Leader - Compliance Monitoring, within 24 hours of the discovery;
- d. Earthworks within ten metres of encountered contaminants shall not recommence until a suitably qualified and experienced contaminated land practitioner (SQEP) confirms to Canterbury Regional Council, Attention: Regional Leader - Monitoring and Compliance that continuing works does not represent a significant risk to the environment;
- e. All records and documentation associated with the discovery shall be kept and copies shall be provided to the Canterbury Regional Council upon request.

- 18 Any material removed from the site during the works that is potentially or confirmed as contaminated, shall be disposed of at a facility authorised to receive such material.

## **SPILLS**

- 19 All practicable measures shall be taken to avoid spills of fuel or any other hazardous substances within the site. These measures shall include:
- a. Refuelling of machinery and vehicles shall not occur within 20 metres of:
    - i. open excavations;
    - ii. exposed groundwater; and
    - iii. surface water bodies;
  - b. A spill kit shall be kept on site that is capable of absorbing the quantity of oil and petroleum products that may be spilt on site at any one time.
  - c. In the event of a spill of fuel or any other hazardous substance, the spill shall be cleaned up as soon as practicable, the waterbody channel shall be inspected and cleaned and measures taken to prevent a recurrence;
  - d. The Canterbury Regional Council, Attention: Regional Leader - Compliance Monitoring, shall be informed within 24 hours of a spill event exceeding five litres and the following information provided:
    - i. the date, time, location and estimated volume of the spill;
    - ii. the cause of the spill;
    - iii. the type of hazardous substance(s) spilled;
    - iv. clean up procedures undertaken;

- v. details of the steps taken to control and remediate the effects of the spill on the receiving environment;
- vi. an assessment of any potential effects of the spill; and
- vii. measures to be undertaken to prevent a recurrence.

## **AFTER WORKS**

- 20 On completion of works:
- a. All exposed surfaces shall be stabilised once works are completed or if they are not to be worked for a period of 14 days or more; and
  - b. All spoil and other waste material from the works shall be removed from site.
- 21 The Canterbury Regional Leader, Attention: Regional Leader - Monitoring and Compliance shall be notified within 10 working days after the completion of any works authorised by this consent.

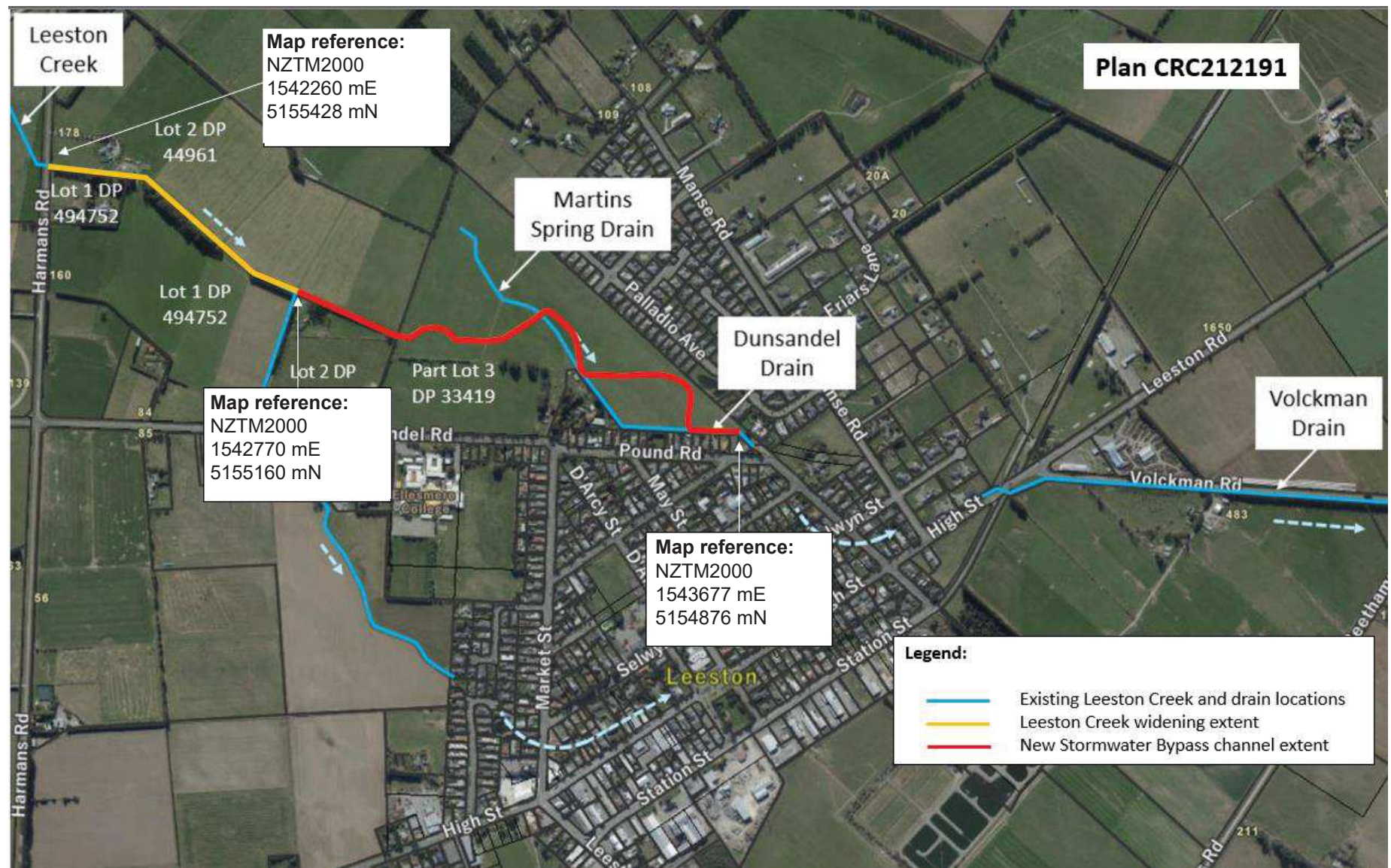
## **ADMINISTRATION**

- 22 The Canterbury Regional Council may annually, on any of the last five 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 which may arise from the exercise of this consent; or
  - b. Requiring the consent holder to carry out monitoring and reporting instead of, or in addition to, that required by the consent.

**Issued at Christchurch on 13 July 2023**

Canterbury Regional Council







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# RESOURCE CONSENT CRC212192

*Under Section 104 of the Resource Management Act 1991*

## The Canterbury Regional Council (known as Environment Canterbury)

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GRANTS TO: Selwyn District Council

A LAND USE CONSENT (S13): To install and remove structures and to disturb the bed.

COMMENCEMENT DATE: 13 Jul 2023

DATE CONSENT NUMBER ISSUED: 13 Jul 2023

EXPIRY DATE: 13 Jul 2028

LOCATION: Road reserve along Harmans Road, adjacent 160 and 178 Harmans Road, 178 Harmans Road, 60 Leeston Dunsandel Road, 2 Leeston Dunsandel Road, Leeston

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### ***SUBJECT TO THE FOLLOWING CONDITIONS:***

#### **LIMITS**

- 1 The activities authorised under this resource consent shall be limited to the following works:
  - a. The disturbance of the bed and banks of the watercourse to:
    - i. widen and deepen approximately 600 metres of the channel to an approximate depth of 1.1 metres below the existing ground level on the banks, and base width of 2.5 metres;
    - ii. install culverts in Leeston Creek and Martins Spring Drain; and
    - iii. install a weir and flood control gate in Leeston Creek;
  - b. The removal of vegetation from the bed and banks;
  - c. The deposition of virgin aggregate on the bed and banks for the purpose of facilitating the activities specified in Condition (1)(a); and
  - d. The re-livening of the channel once the activities described in Condition (1)(a) to (c) have been completed.
- 2
  - a. The location of works authorised under Condition (1) shall be undertaken within the area shown on Plan CRC212192, attached to and forming part of this resource consent, between map references:
    - i. NZTM2000 1542261 mE 5155430 mN and

ii. NZTM2000 1542765 mE 5155160 mN.

- b. The location of the culvert to be installed in accordance with Condition (1)(a)(ii) shall be located at approximately NZTM2000 1543678 mE 5154877 mN as shown on Plan CRC212192.

3 Works authorised by this resource consent shall be undertaken between September and April inclusive.

4 The activities authorised by Condition (1) shall be undertaken in general accordance with resource consents CRC212191, CRC212193 and CRC212194, attached to and forming part of this resource consent.

#### **PRIOR TO COMMENCEMENT OF WORKS**

5 Prior to the works described in Condition (1) all personnel working on the site shall be made aware of, and have access to, the following:

- a. The contents of this document and all associated documents; and
- b. Resource Consents CRC212191, CRC212193 and CRC212194; and
- c. The Erosion and Sediment Control Plan required to be prepared under resource consent CRC212191.

6 A pre-construction meeting shall be held between the Canterbury Regional Council and all relevant parties, including the primary contractor, prior to the commencement of any works. At a minimum, the following shall be covered in the meeting:

- a. Scheduling and staging of the works;
- b. Responsibilities of all relevant parties;
- c. Contact details for all relevant parties;
- d. Expectations regarding communication between all relevant parties;
- e. Procedures for implementing any amendments;
- f. Site inspection; and
- g. Confirmation that all relevant parties have copies of the contents of this consent document and all associated erosion and sediment control plans and methodology.

7 The Consent Holder shall notify the Canterbury Regional Council, Attention: Regional Leader – Compliance Monitoring at least ten working days prior to the commencement of works.

Notification shall include:

- a. The proposed start and end dates of the period of work; and
- b. Where the consent is to be exercised by a person other than the consent holder, the name, address and contact telephone number of the persons exercising the consent.

**Advice Note:** Notification to CRC may be via post, telephone or emailing [ecinfo@ecan.govt.nz](mailto:ecinfo@ecan.govt.nz).

- 8 Prior to works commencing, erosion and sediment control measures shall be installed in accordance with the requirements of resource consent CRC212191 and shall not be decommissioned until all exposed areas are stabilised.

#### **CULVERT INSTALLATION – Leeston Creek**

- 9 The box culvert shall be designed and constructed:
- a. To convey a minimum flow of 3.79 m<sup>3</sup>/s;
  - b. So that the base of the culvert is at or below the current bed level; and
  - c. To have a maximum length of 5 metres; and
  - d. To ensure that fish passage is maintained.
- 10 At least 10 days prior to the installation of the culvert the consent holder shall submit to the Canterbury Regional Council, Attention: Regional Leader – Compliance Monitoring the following documents:
- a. Design plans of the culvert to be installed; and
  - b. A certificate signed by a suitably qualified engineer or Chartered Member of Engineering New Zealand with culvert design experience to certify that the culvert has been designed in accordance with Condition (9) of this resource consent.
- 11 Within 20 working days of the installation of the culvert, a suitably qualified engineer or Chartered Member of Engineering New Zealand shall submit to the Canterbury Regional Council, Attention: Regional Leader – Compliance Monitoring a statement certifying that the culvert has been constructed in accordance with the design and conditions of this consent.
- 12 Within 20 working days following completion of the installation of the new culvert structure, the consent holder must submit to Canterbury Regional Council the information required by regulations 62 and 63 of the National Environmental Standard for Freshwater (2020), specifying the time and date of collection.

#### **CULVERT INSTALLATION – Martins Spring Drain**

- 13 The culvert shall be designed and constructed:
- a. To convey a free-flowing capacity of 0.23 m<sup>3</sup>/s;
  - b. So that the base of the culvert is embedded by up to 25% under the current bed level; and
  - c. To have a maximum length of 10 metres; and
  - d. To ensure that fish passage is maintained.

- 14 At least 10 days prior to the installation of the culvert the consent holder shall submit to the Canterbury Regional Council, Attention: Regional Leader – Compliance Monitoring the following documents:
- a. Design plans of the culvert to be installed; and
  - b. A certificate signed by a suitably qualified engineer or Chartered Member of Engineering New Zealand with culvert design experience to certify that the culvert has been designed in accordance with Condition (15) of this resource consent.
- 15 Within 20 working days of the installation of the culvert, a suitably qualified engineer or Chartered Member of Engineering New Zealand shall submit to the Canterbury Regional Council, Attention: Regional Leader – Compliance Monitoring a statement certifying that the culvert has been constructed in accordance with the design and conditions of this consent.
- 16 Within 20 working days following completion of the installation of the new culvert structure, the consent holder must submit to the council the information required by regulations 62 and 63 of the National Environmental Standard for Freshwater (2020), specifying the time and date of collection.

### **FISH PASSAGE AND FISH SALVAGE**

- 17 In the event that fish or other aquatic organisms are stranded in pools or channels caused by the works described in Condition (1) of this consent, the consent holder shall arrange for the fish and other aquatic organisms to be salvaged and relocated to an appropriate waterway within the river. The fish and aquatic organism salvage shall:
- a. Be conducted by or under supervision of a certified, suitably qualified and experienced freshwater ecologist;
  - b. Be in general accordance with Canterbury Regional Council and Christchurch City Council's "Fish Salvage Guidance for Works in Waterways" (12 October 2017); and
  - c. Include the following measures:
    - i. the use of fish exclusion measures to prevent fish being drawn into pump units used to divert water;
    - ii. the use of fish screens at the upstream and downstream ends of the proposed works as shown on Plan CRC212192, attached to and forming part of this resource consent;
    - iii. the recovery and relocation of stranded fish to a habitat deemed suitable by the certified, suitably qualified and experienced freshwater ecologist; and
    - iv. the suitably qualified and experienced freshwater ecologist shall hold any necessary permits and approvals required by the Ministry for Primary Industries, Department of Conservation and Fish and Game to conduct fish salvage.

### **DURING WORKS**

- 18 The works and structures authorised by Condition (1) shall not:

- a. Result in the erosion of the bed and banks of the surface waterbodies;
- b. Reduce the flood carrying capacity of the surface water bodies;
- c. Result in the deflection of flows into the banks of the surface waterbodies;
- d. Result in the diversion of flood waters onto any neighbouring property.

- 19 All practicable measures shall be undertaken to prevent sediment from entering water including, but not limited to:
- a. Establishing sediment controls prior to the onset of works and maintaining them in place until disturbed areas are stabilised;
  - b. Stabilisation of disturbed areas as soon as practicable following works;
  - c. Erosion and sediment control measures shall be installed in accordance with the requirements of this resource consent;
  - d. Avoid placing any cut or cleared vegetation or debris in a position such that it may enter the waterway, and the removal of any loose vegetation from the waterway; and
  - e. Removal of spoil and other waste material from works site upon completion of works.
- 20 All machinery associated with the works shall be free of plant seeds prior to use in the waterbody.
- 21 To prevent the spread of didymo (*Didymosphenia geminata*) or any other aquatic pest, the consent holder shall ensure that activities authorised by this consent are undertaken in accordance with Biosecurity New Zealand's hygiene procedures.

**Advice Note:** The most current version of these procedures can be accessed on the Biosecurity New Zealand website (<http://www.biosecurity.govt.nz>) or Environment Canterbury Customer Services.

#### **ACCIDENTIAL DISCOVERY OF CONTAMINATED MATERIAL**

- 22 In the event that any unexpected contaminated soil or material is uncovered by the works, an accidental discovery protocol shall be implemented, including but not limited to the following steps:
- a. Earthworks within ten metres of unexpected contaminants shall cease immediately;
  - b. All practicable steps shall be taken to prevent the contaminated material becoming entrained in water. Immediate steps shall include, where practicable:
    - i. Diverting any runoff from surrounding areas away from the contaminated material; and
    - ii. Minimising the exposure of the contaminated material, including covering the contaminants with an impervious cover;

- c. Notification of the Canterbury Regional Council, Attention: Contaminated Sites Manager, within 24 hours of the discovery;
- d. Earthworks within ten metres of unexpected contaminants shall not recommence until a suitably qualified and experienced contaminated land practitioner (SQEP) confirms to Canterbury Regional Council, Attention: Regional Leader – Compliance Monitoring that continuing works does not represent a significant risk to the environment;
- e. All records and documentation associated with the discovery must be kept and copies must be provided to the Canterbury Regional Council upon request.

## **HAZARDOUS SUBSTANCES AND SPILLS**

- 23 All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery including but not limited to:
- a. There shall be no storage of fuel or refuelling of vehicles and machinery within 20 metres of the bed of a river;
  - b. Fuel shall be stored securely or removed from site overnight.
  - c. Vehicles and machinery shall be free of leaks; and
  - d. Vehicles and machinery shall not enter flowing water.
- 24 All practicable measures shall be taken to avoid spills of fuel or any other hazardous substances within the site. These measures shall include:
- a. Refuelling of machinery and vehicles shall not occur within 20 metres of:
    - i. open excavations;
    - ii. exposed groundwater; and
    - iii. surface water bodies;
  - b. A spill kit shall be kept on site that is capable of absorbing the quantity of oil and petroleum products that may be spilt on site at any one time;
  - c. In the event of a spill of fuel or any other hazardous substance, the spill shall be cleaned up as soon as practicable, the waterbody channel shall be inspected and cleaned and measures taken to prevent a recurrence;
  - d. The Canterbury Regional Council, Attention: Regional Leader – Compliance Monitoring, shall be informed within 24 hours of a spill event exceeding five litres and the following information provided:
    - i. the date, time, location and estimated volume of the spill;
    - ii. the cause of the spill;
    - iii. the type of hazardous substance(s) spilled;
    - iv. clean up procedures undertaken;

- v. details of the steps taken to control and remediate the effects of the spill on the receiving environment;
- vi. an assessment of any potential effects of the spill; and
- vii. measures to be undertaken to prevent a recurrence.

## ACCIDENTIAL DISCOVERY PROTOCOL

25 In the event of any discovery of archaeological material the consent holder must immediately:

- a. Cease earthmoving operations in the affected area and mark off the affected area; and
- b. Advise the Canterbury Regional Council of the disturbance; and
- c. Advise Heritage New Zealand Pouhere Taonga (HNZPT) of the disturbance.

**Advice Note:** *Affected area means the whole or any part of any site known or reasonably suspected to be an archaeological site, and which could be disturbed or otherwise impacted by any works.*

**Advice Note:** *This condition may be in addition to any agreements that are in place between the consent holder and the Papatipu Runanga. (Cultural Site Accidental Discovery Protocol).*

**Advice Note:** *Under the Heritage New Zealand Pouhere Taonga Act 2014 an archaeological site is defined as any place associated with pre-1900 human activity, where there is material evidence relating to the history of New Zealand. For sites solely of Maori origin, this evidence may be in the form of accumulations of shell, bone, charcoal, burnt stones, etc. In later sites, artefacts such as bottles or broken glass, ceramics, metals, etc. may be found or evidence of old foundations, wells, drains, tailings, races or other structures. Human remains/koiwi may date to any historic period. It is unlawful for any person to destroy, damage, or modify the whole or any part of an archaeological site without the prior authority of Heritage New Zealand Pouhere Taonga. This is the case regardless of the legal status of the land on which the site is located, whether the activity is permitted under the District or Regional Plan or whether a resource or building consent has been granted. The Heritage New Zealand Pouhere Taonga Act 2014 provides for substantial penalties for unauthorised damage or destruction.*

- 26
- a. If accidentally discovered material is suspected to be Koiwi Tangata (human bones), taonga (treasured artefacts) or a Maori archaeological site:
    - i. the consent holder must immediately advise the office of the Kaitiaki Runanga (office contact information can be obtained from the Canterbury Regional Council) of the discovery; and
    - ii. the nature of the material must be confirmed by a qualified archaeologist appointed by the Kaitiaki Runanga and HNZPT.
  - b. If the archaeological material is determined to be Koiwi Tangata (human bones) by a qualified archaeologist, the consent holder must:
    - i. immediately advise the New Zealand Police of the disturbance;



- ii. consult with the Kaitiaki Runanga on any matters of tikanga (protocol) that are required in relation to the discovery and prior to the commencement of any investigation; and
  - iii. treat the area with utmost discretion and respect and manage the koiwi in accordance with both statutory obligations under the HNZPT Act 2014 and tikanga, as guided by the Kaitiaki Runanga.
- c. Works in the site area must not recommence until authorised by the Kaitiaki Runanga, HNZPT (and the NZ Police in the case of koiwi) and any other authority with statutory responsibility, to ensure that all statutory and cultural requirements have been met.

- 27 If accidentally discovered material is not suspected or confirmed to be Koiwi Tangata (human bones), taonga (treasured artefacts) or a Maori archaeological site, work may recommence once Heritage New Zealand Pouhere Taonga Trust advises the consent holder that work can recommence.

### **AFTER WORKS**

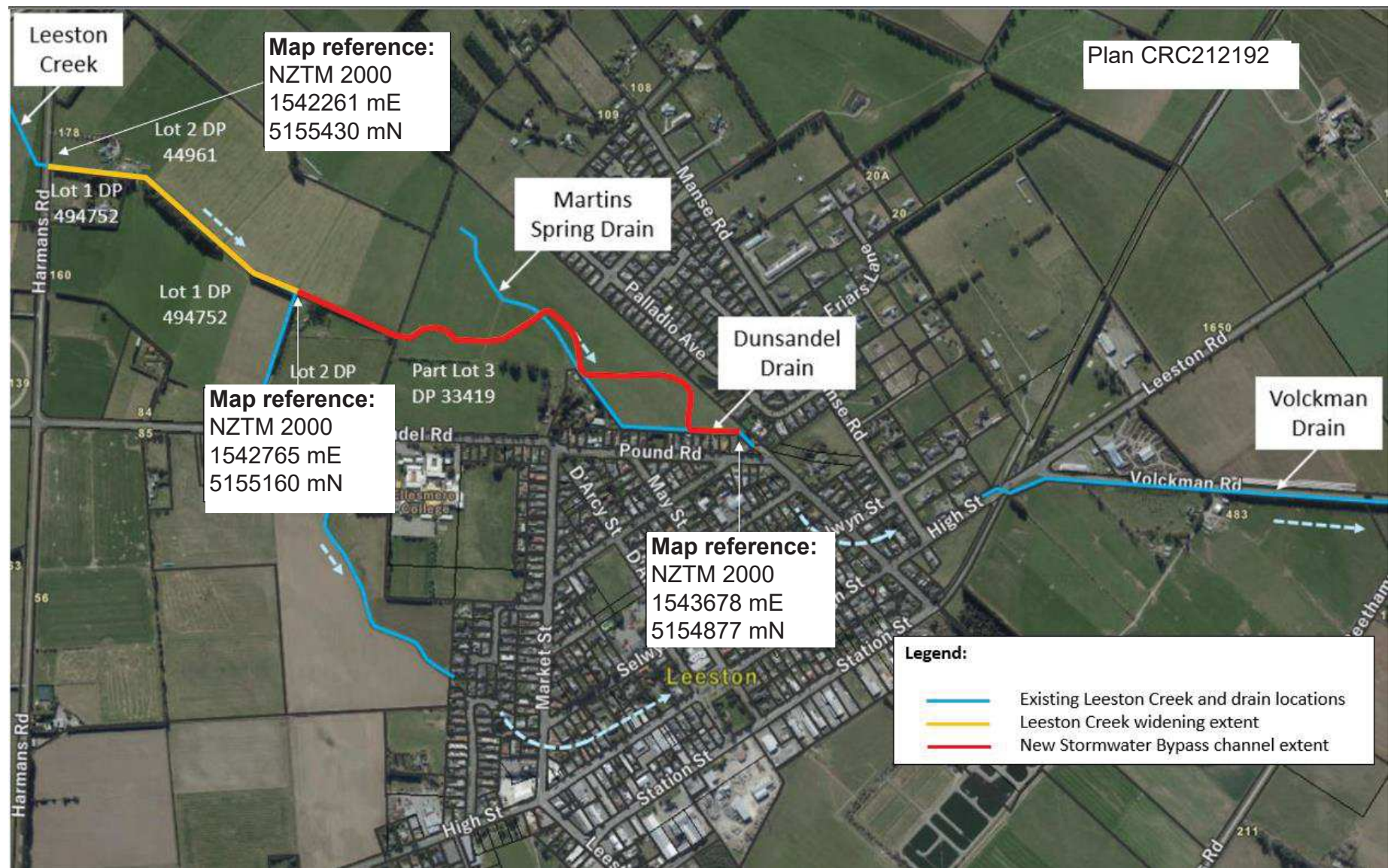
- 28 Following the completion of works:
- a. All earthworked banks shall be stabilised as soon as practicable;
  - b. Areas where vegetation clearance has occurred shall be replanted, except where shown in Plan CRC212192 referenced in Condition (2);
  - c. All accumulated debris and other waste material shall be removed from the site;
  - d. Any bare surfaces in riparian margins remaining after the completion of the works shall be sown with grass seed or planted as soon as practicable.
- 29 Water shall not be diverted down the new bypass channel until the beds and banks have been stabilised and planted.
- 30 The Canterbury Regional Council, Attention: Regional Leader – Monitoring and Compliance shall be notified within ten working days after the completion of any works authorised by this consent.

### **ADMINISTRATION**

- 31 The Canterbury Regional Council may annually, on any of the last five 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 which may arise from the exercise of this consent; or
  - b. Requiring the consent holder to carry out monitoring and reporting instead of, or in addition to, that required by the consent.

**Issued at Christchurch on 13 July 2023**

Canterbury Regional Council



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# RESOURCE CONSENT CRC212193

*Under Section 104 of the Resource Management Act 1991*

## The Canterbury Regional Council (known as Environment Canterbury)

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GRANTS TO:	Selwyn District Council
A WATER PERMIT (S14):	To dam and take surface water.
COMMENCEMENT DATE:	13 Jul 2023
DATE CONSENT NUMBER ISSUED:	13 Jul 2023
EXPIRY DATE:	13 Jul 2028
LOCATION:	Road reserve along Harmans Road, adjacent 160 and 178 Harmans Road, 178 Harmans Road, 60 Leeston Dunsandel Road, 2 Leeston Dunsandel Road, Leeston

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### **SUBJECT TO THE FOLLOWING CONDITIONS:**

#### **LIMITS**

- 1 The activity authorised by this resource consent shall be limited to the non-consumptive take of surface water and damming of water to facilitate the works authorised by resource consent CRC212191, CRC212192 and CRC212194, at or about map reference NZTM2000 1542261 mE 5155430 mN as shown on Plan CRC212193, attached to and forming part of this resource consent.

**Advice note:** *This resource consent does not authorise the take of groundwater for the purpose of dewatering or any other purpose. An additional resource consent may be required for the take of groundwater under Section 14 of the Resource Management Act 1991 if the conditions of Rule 5.119 of the LWRP are not met.*

- 2 All water taken from the watercourse in accordance with Condition (1) shall be discharged back into the same watercourse in accordance with resource consent CRC212194.

#### **PRIOR TO COMMENCING WORKS**

- 3 Prior to the activities described in Condition (1), all personnel working on site shall be made aware of, and have access to the contents of:
  - a. This resource consent document and all associated documents;
  - b. Resource consent documents CRC212191, CRC212192 and CRC212194; and
  - c. The Erosion and Sediment Control Plan as required by CRC212191.

- 4 Prior to the commencement of the activity authorised by Condition (1), erosion and sediment control measures shall be installed, as required by resource consent CRC212191.
- 5 A pre-construction meeting shall be held between the Canterbury Regional Council and all relevant parties, including the primary contractor, prior to the commencement of any works. At a minimum, the following shall be covered in the meeting:
- a. Scheduling and staging of the works;
  - b. Responsibilities of all relevant parties;
  - c. Contact details for all relevant parties;
  - d. Expectations regarding communication between all relevant parties;
  - e. Procedures for implementing any amendments;
  - f. Site inspection; and
  - g. Confirmation that all relevant parties have copies of the contents of this consent document and all associated erosion and sediment control plans and methodology.

#### **DURING WORKS**

- 6 The activity shall:
- a. Not result in any stranded fish;
  - b. Include fish exclusion measures on any pump used to take water in accordance with Condition (1);
  - c. Not cause erosion or scouring of the banks and bed of the watercourse.
- 7 All practicable measures shall be undertaken to minimise the release of sediment during the abstraction of water.
- 8 If water is dammed for longer than 24 hours, one or more of the following methods shall be used to prevent the stranding of fish:
- a. A flexible cloth pipe or plastic pipe for fish passage if water can be diverted around the work site using a gravity system;
  - b. Water pumps with fish screens with a maximum mesh width and height size of three millimetres; and/or
  - c. Electric fishing and the relocation of fish to a different part of the drain by a suitably qualified individual.
- 9 In the event that fish or other aquatic organisms are stranded in pools or channels caused by the works, the consent holder shall arrange for the fish and other aquatic organisms to be salvaged and relocated to an appropriate waterway within the river. The fish and aquatic organism salvage shall include the following measures:
- a. Be conducted by or under supervision of a certified, suitably qualified and experienced freshwater ecologist; and

- b. Be in general accordance with Canterbury Regional Council and Christchurch City Council's "Fish Salvage Guidance for Works in Waterways" (12 October 2017);
- c. The fish shall be relocated to a habitat deemed suitable by the certified, suitably qualified and experienced freshwater ecologist.

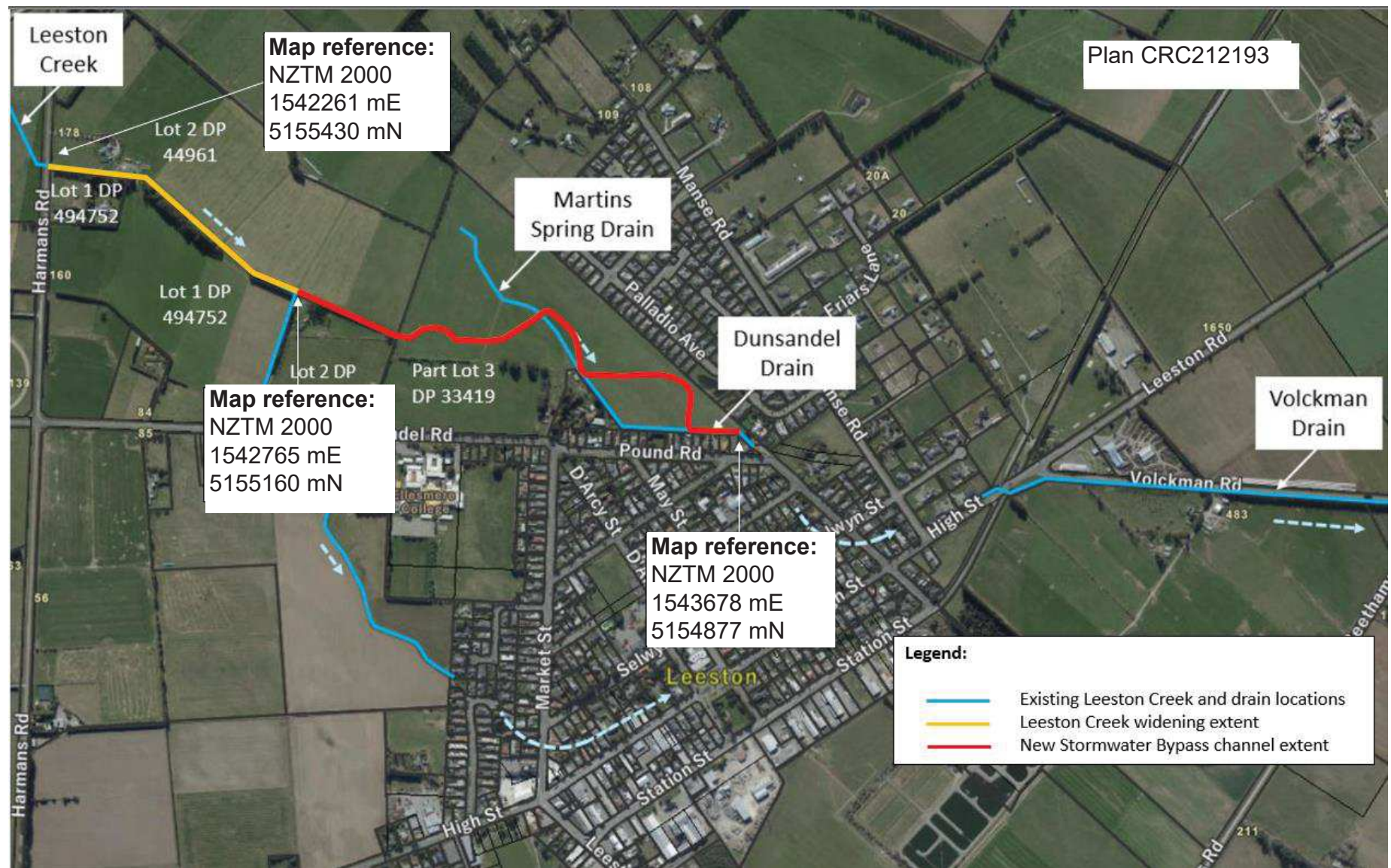
#### **ADMINISTRATION**

- 10 The Canterbury Regional Council may annually, on any of the last five 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 which may arise from the exercise of this consent; or
  - b. Requiring the consent holder to carry out monitoring and reporting instead of, or in addition to, that required by the consent.

**Issued at Christchurch on 13 July 2023**

Canterbury Regional Council





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# RESOURCE CONSENT CRC212194

*Under Section 104 of the Resource Management Act 1991*

## The Canterbury Regional Council (known as Environment Canterbury)

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GRANTS TO:	Selwyn District Council
A DISCHARGE PERMIT (S15):	To discharge surface water and sediments to surface water.
COMMENCEMENT DATE:	13 Jul 2023
DATE CONSENT NUMBER ISSUED:	13 Jul 2023
EXPIRY DATE:	13 Jul 2028
LOCATION:	Road reserve along Harmans Road, adjacent 160 and 178 Harmans Road, 178 Harmans Road, 60 Leeston Dunsandel Road, 2 Leeston Dunsandel Road, Leeston

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### ***SUBJECT TO THE FOLLOWING CONDITIONS:***

#### **LIMITS**

- 1 The activity shall be limited to the discharge of:
  - a. Surface water taken in accordance with resource consent CRC212193, or any subsequent variation;

to the watercourse at or about map reference NZTM2000 1542261 mE 5155430 mN and as shown on Plan CRC212194 attached to and forming part of this resource consent.

***Advice Note:*** *This resource consent does not authorise the discharge of groundwater for the purpose of dewatering or any other purpose. An additional resource consent may be required for the take and discharge of groundwater under Section 14 and Section 15 of the Resource Management Act 1991.*
- 2 Surface water taken in accordance with resource consent CRC212193 shall be discharged back to the same surface waterbody and in accordance with the Erosion and Sediment Control Plan required by resource consent CRC212191.
- 3 The discharges authorised under Condition (1) of this resource consent shall not at any time:
  - a. Result in the production of oil or grease films;
  - b. Result in the production of floatable or suspended materials;
  - c. Exceed a Total Suspended Solids (TSS) concentration of 100 milligrams per litre;
  - d. Exceed the flood carrying capacity of the watercourse; or
  - e. Cause erosion or scouring of the banks and bed of the watercourse.



- 4 The activities authorised by this resource consent shall be undertaken between September and April inclusive.

### **PRIOR TO COMMENCEMENT OF WORKS**

- 5 Prior to the activities described in Condition (1), all personnel working on site shall be made aware of, and have access to the contents of:
- a. This resource consent document and all associated documents;
  - b. Resource consent documents CRC212191, CRC212192 and CRC212193; and
  - c. The Erosion and Sediment Control Plan as required by CRC212191.
- 6 Prior to the commencement of the activity authorised by Condition (1), erosion and sediment control measures shall be installed, as required by resource consent CRC212191.
- 7 A pre-construction meeting shall be held between the Canterbury Regional Council and all relevant parties, including the primary contractor, prior to the commencement of any works. At a minimum, the following shall be covered in the meeting:
- a. Scheduling and staging of the works;
  - b. Responsibilities of all relevant parties;
  - c. Contact details for all relevant parties;
  - d. Expectations regarding communication between all relevant parties;
  - e. Procedures for implementing any amendments;
  - f. Site inspection; and
  - g. Confirmation that all relevant parties have copies of the contents of this consent document and all associated erosion and sediment control plans and methodology.

### **SAMPLING AND DISCHARGE QUALITY**

- 8
- a. For the purposes of observing compliance with Condition (3) of this resource consent, during the period the discharge is occurring, monitoring of the discharge 20 metres downstream of the discharge location shall occur using a recognised method to measure visual clarity by a suitably qualified person:
  - b. The monitoring shall be carried out at least once per day when discharges are occurring.
  - c. Records of the monitoring shall be kept and provided to the Canterbury Regional Council on request.
  - d. Advising any observed non-compliance with Condition 3 to the Canterbury Regional Council, Attention: Regional Leader - Compliance Monitoring, within two working days, and advising of the actions taken and measures to be undertaken to prevent a recurrence.

**Advice Note:** Water clarity can be measured using a Stream Health Monitoring and Assessment Kit (SHMAK) clarity tube, a Secchi Disk, or a Nephelometer provided a site-specific relationship has been established between the Nephelometer Turbidity Units (NTU) and the soils and site-specific conditions at the consented location.

- 9 If the method for observing compliance with Condition (3)(c) and in accordance with Condition (8) is via visual inspection then prior to the commence of the discharge authorised by Condition (1), the Consent Holder shall:
- a. Make up a set of calibrated samples in clear bottles containing the following concentrations of TSS:
    - i. 50 milligrams per litre;
    - ii. 100 milligrams per litre;
    - iii. 150 milligrams per litre;
  - b. The calibrated samples shall be:
    - i. prepared using a representative sample of sediment-laden water collected from the outlet end of the discharge pipe; or
    - ii. calibrated in a suitable laboratory to the unique combination of soil types and discharge quality likely expected at the site;
  - c. The set of calibrated samples shall be held on site.

**Advice Note:** *When shaken, the calibrated samples will provide a benchmark to enable visual comparison with the discharge samples required to be taken under Conditions (8) against the TSS limit set under Condition (3)(c).*

- 10 If the method for observing compliance with Condition (3)(c) and in accordance with Condition (8) is the use of a water quality meter or any other recognised measuring device to measure concentration of TSS in the discharge:
- a. It shall be undertaken by a suitably qualified person with water quality sampling experience; and
  - b. The water quality meter or recognized measuring device shall be:
    - i. used in accordance with the manufacturer manual specific to the device;
    - ii. calibrated to the unique combination of soil types and environmental conditions found on the site; and
    - iii. used in general accordance with the Erosion and Sediment Control Toolbox for Canterbury (2017).
- 11 If it becomes apparent at any stage during water quality monitoring detailed in Conditions (9) and (10) that a TSS concentration of 100 milligrams per litre will not, or is unlikely to be achieved following reasonable mixing, or if sheen of oil or grease or discoloration, or any sludge or emulsion below the water surface is observed, then:
- a. The discharge shall cease immediately;
  - b. The discharge shall only recommence once amendments have been made to the site management such that:
    - i. A TSS concentration of 100 milligrams per litre is achieved following reasonable mixing;
    - ii. The source of the sheen of oil or grease, discoloration, or any sludge or emulsion below the water surface, has been removed; and

- iii. Any observed non-compliance with Condition (11) shall be reported to the Canterbury Regional Council, Attention: Regional Leader - Compliance Monitoring, within two working days, and advising of the actions taken and measures to be undertaken to prevent a recurrence.

## **SPILLS**

- 12 All practicable measures shall be taken to avoid spills of fuel or any other hazardous substances within the site. These measures shall include:
- a. Refuelling of machinery and vehicles shall not occur within 20 metres of:
    - i. open excavations;
    - ii. exposed groundwater; and
    - iii. surface water bodies;
  - b. A spill kit shall be kept on site that is capable of absorbing the quantity of oil and petroleum products that may be spilt on site at any one time.
  - c. In the event of a spill of fuel or any other hazardous substance, the spill shall be cleaned up as soon as practicable, the waterbody channel shall be inspected and cleaned and measures taken to prevent a recurrence;
  - d. The Canterbury Regional Council, Attention: Regional Leader - Compliance Monitoring, shall be informed within 24 hours of a spill event exceeding five litres and the following information provided:
    - i. the date, time, location and estimated volume of the spill;
    - ii. the cause of the spill;
    - iii. the type of hazardous substance(s) spilled;
    - iv. clean up procedures undertaken;
    - v. details of the steps taken to control and remediate the effects of the spill on the receiving environment;
    - vi. an assessment of any potential effects of the spill; and
    - vii. measures to be undertaken to prevent a recurrence.

## **ADMINISTRATION**

- 13 The Canterbury Regional Council may annually, on any of the last five 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 which may arise from the exercise of this consent; or
  - b. Requiring the consent holder to carry out monitoring and reporting instead of, or in addition to, that required by the consent.

**Issued at Christchurch on 13 July 2023**

Canterbury Regional Council

