FOR OFFICE USE ONLY

Receipt number:

Charges paid: CRC:

CON070: APPLICATION FOR RESOURCE CONSENT

TO DISCHARGE ON-SITE WASTEWATER (SEWAGE TANK EFFLUENT) INTO LAND

If you need help in filling out this form please contact our Customer Services staff on (03) 353-9007 or toll free 0800 EC INFO (0800 324 636). They will be able to provide some general assistance.

Send the completed application to: *Environment Canterbury, 58 Kilmore Street, P O Box 345, Christchurch 8140.*

Information

Completing all the questions in this form:

(a) may satisfy the requirements of the Resource Management Act 1991 for an application for resource consent. Environment Canterbury will inform you if further information is required.

(b) will assist with the prompt processing of you're application - any omissions in the form may result in significant delays and costs while the required information is obtained.

Charges

Your application must be accompanied with the deposit charge specified in the "Summary of Resource Consent Charges" or at www.ecan.govt.nz. When your application has been processed, if the actual and reasonable costs incurred by Environment Canterbury exceed the deposit charge, you will be invoiced for the balance. If the cost of processing an application is less than the deposit charge paid, the balance will be refunded. You can require the provision of an estimate of the charge for processing your application. If an application is declined all charges must still be paid.

All accounts are payable by the 20th day of the month following the date of invoice. If the account is not paid within 30 days after the due date, our debt collection agent may charge you a fee equal to 25% of the unpaid portion of the account, but no less than $25.00. Where the total debt collection costs, legal and other costs arising from the collection of any amount owing exceeds the debt collection fee charged, our debt collection agent is also entitled to recover such additional costs. All Environment Canterbury charges must be met by the applicant. This may include time spent discussing issues with the applicant and any other parties involved in the process.

PART A: APPLICATION DETAILS

1. Name and address of applicant(s):

Surname: First names (in full): Mr/Mrs/Ms/ Miss/Dr/Prof.

Surname: First names (in full): Mr/Mrs/Ms/ Miss/Dr/Prof.

OR

Registered Company name and number:

Postal address:

Postcode:

Phone (home): Phone (business):

Fax (home): Fax (business):

Email: Cellphone:

Contact person:

☐ You must declare by ticking this box if you are an ECan staff member, an ECan Councillor, or a family member of either.

2. Consultant/Agents details (if applicable):

Contact person:

Company:

Postal address:

Postcode:

Email:

Phone: Fax:

During the processing of your application who will be the contact person for making decisions? ☐ Applicant ☐ Consultant / Agent

Note: All correspondence during the consent investigation process will be directed to this contact person, unless instructed otherwise. Final decision documents will be sent to the applicant.

Who will be the contact person for compliance monitoring matters? ☐ Applicant ☐ Consultant / Agent

3. Names and addresses of the owner and occupier of the site to which this application relates.
(You only need to include this information if it is different to that of the applicant(s))

Owner: Phone:

Postal address:

Postcode: Fax:

Occupier: Phone:

Postal address:

Postcode: Fax:

4. The location of the site to which this application relates:

Site address:

Locality:

Legal description:

Map reference:

The legal description can be found on the certificate of title, valuation notice, subdivision plan or rate demand for the site. Please include a copy of one of these with your application.

5. Under which District Council or City Council is this site located?

☐ Ashburton DC	☐ Kaikoura DC	☐ Timaru DC	☐ Waitaki DC
☐ Christchurch CC	☐ Mackenzie DC	☐ Waimakariri DC	
☐ Hurunui DC	☐ Selwyn DC	☐ Waimate DC	

Have you consulted with the appropriate District or City Council to determine whether you need a consent from them for this activity?

☐ Yes ☐ No

If yes, what was their response?

If a consent is required, have you applied for it? ☐ Yes ☐ No

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PART B: ASSESSMENT OF EFFECTS

1. INTRODUCTION

You must include an assessment of the effects of your activity on the environment in this part of your application.

Section 88 of the Resource Management Act 1991 requires that each application include an assessment of the actual and potential effects of the activity on the environment. This assessment must be prepared in accordance with the Fourth Schedule of the Resource Management Act. A copy of this schedule is available from Customer Services.

The assessment of effects will differ for each application depending on the type and scale of the activity. Consultation is one of the best ways of identifying adverse effects. Part B of this form is a guide to help you prepare the assessment of the effects of your activity on the environment.

For further assistance in preparing this assessment, Environment Canterbury has a fact sheet available entitled "Preparation of Assessment of Effects on the Environment." A copy of this fact sheet is available from Customer Services.

Background Information:

1(a) Permitted activity:

Before applying for this resource consent, was your proposed activity declined by Environment Canterbury as a permitted activity? ☐ Yes ☐ No

If yes, please provide the following: Permitted activity number: _____

Reason permitted activity request was declined: _____

_____

Note: If your proposed activity was accepted as a permitted activity, you do not require resource consent.

1(b) Lapsed consents:

Has the property had a resource consent which has lapsed? ☐ Yes ☐ No

Note: If you answered yes, please contact Customer Services who will be able to advise you if you need to complete this application form.

1(c) System failure:

If you are applying for resource consent due to the failure of your current system, please explain why the existing system is failing, e.g. there is a blockage in the distribution pipe and wastewater is ponding on the land surface.

_____

_____

2. DESCRIPTION OF THE PROPOSED ACTIVITY

2(a) Site details:

- Area of property: _____ hectares / square metres
- Is the property part of a subdivision which occurred after 28 September 1991? ☐ Yes ☐ No ☐ Don't know

If yes;

- What was the date of the subdivision? _____
- Did the subdivision result in more than one additional lot being created? ☐ Yes ☐ No
- Are any of the lots created as a result of the subdivision smaller than four hectares in size? ☐ Yes ☐ No

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2(b) Number of resource consents required:

- Is this application for several resource consents within a subdivision or for one resource consent for a single lot?

  ☐ Several consents (Subdivision) ☐ One consent (Single lot)

If the application is for a single resource consent, please proceed to section (2)(c).

If the application is for several resource consents for a subdivision, please complete the following questions:

- How many lots are in the subdivision? _____
- Is resource consent required for each lot? ☐ Yes ☐ No

  If no, please state why this is the case and specify which lots require resource consents: _____

_____

_____

Please attach a map of the proposed subdivision to this application form.

2(c) Type of contaminant discharged:

- Is the wastewater to be discharged solely from a domestic dwelling? ☐ Yes ☐ No

If the wastewater is solely from a domestic dwelling, please proceed to section (2)(d).

If the wastewater to be discharged is not solely from a domestic dwelling, please complete the following:

- Are there any contaminants from home-based hobbies or businesses that will be discharged into the treatment system e.g. chemicals from a hairdressing, winery, photography or butchery business? ☐ Yes ☐ No
- Will commercial kitchen/restaurant greywater be discharged into the treatment system? ☐ Yes ☐ No

  If yes, will the commercial kitchen/restaurant greywater pass through a grease trap before being discharged to land? ☐ Yes ☐ No

  If no, why is a grease trap not required? _____

_____

- Please provide further details of any other contaminants to be discharged or of any other sources of wastewater to be discharged into the treatment system: _____

_____

_____

2(d) Volume of contaminant discharged:

- How many bedrooms does your dwelling have? _____

  Note: If you are applying for a resource consent to discharge wastewater from more than one dwelling on the property, please specify how many dwellings are on the property and the number of bedrooms in each dwelling.

- How much wastewater will be produced per day per dwelling? _____ Litres per day (maximum)

Note: The table below may assist you in determining how much wastewater will be produced per day per dwelling.

Number of bedrooms	Daily flow (Litres)
1	400
2	800
3	1000
4	1400
5	1600
6	2000

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If your proposed daily flow differs from that listed in the table, please specify why: _____

_____

If the wastewater is not solely from a domestic dwelling, please specify the maximum number of visitors/customers and staff and the daily flow per person that has been used to calculate the maximum daily flow. _____

_____

- Are seasonal fluctuations in wastewater flow likely, for example discharge from a holiday home? ☐ Yes ☐ No

If yes, please provide details on how this may affect the performance of the treatment system: _____

_____

_____

2(e) Treatment system proposed

Design of treatment system

- What is the proposed treatment system?
  - ☐ Septic tank ☐ Aerated treatment system ☐ Packed bed reactor
  - ☐ Other, please specify: _____

  Note: If your treatment system is not one of the systems listed above, please attach to this application form information on how the system will treat the wastewater. If you don't provide this information there may be significant delays and costs while this information is obtained.
- How many treatment chambers will the system have? _____
- What is the operating capacity of the treatment system? _____ (litres)
- What is the total capacity of the treatment system? _____ (litres)
- Will a proprietary outlet filter be installed? ☐ Yes ☐ No
- What is the delivery system to the land application system?
  - ☐ Pumped ☐ Siphoned ☐ Other, please specify: _____

  Note: Environment Canterbury discourages the use of gravity fed systems
- Will the discharge be UV treated? ☐ Yes ☐ No
- Will the discharge be chlorinated? ☐ Yes ☐ No

  Note: If you are proposing a treatment system which includes chlorination, a detailed assessment of the effects of chlorine on the environment will be required in section 6 of this application form.

2(f) Design of land application system

Location map:

Please attach a map to this application form which shows the location of the following:

- ***The dwelling;***
- ***The land application system;***
- ***All property boundaries; and***
- ***All wells or watercourses (including drains) on your property and on any neighbouring properties.***

Please label on this map:

- ***The distance in metres each of the above features is from the land application system:***
- ***The location of the nearest road/s to your land application system:***
- ***The dimensions of the land application system:***
- ***An arrow indicating north: and***
- ***Whether the map is to scale.***

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Please complete the details for <u>one</u> of the following land application systems and then proceed to section 2(g).

<u>Drip line irrigation land application system</u>:

- Length of subsurface irrigation tubing used: _____ (m)
- Distance between tube lines: _____ (m)
- Area of land application system: _____ (m^2)
  (i.e. distance between tube lines (m) x length of tubing used (m))
- If you are proposing a distance between tube lines of <u>more than</u> one metre, please provide details of how the wastewater will be evenly distributed across this distance. _____
- Application rate: _____ (mm/day)
  (i.e. maximum wastewater flow L/day [as stated in question 2(d)] ÷ effective area of land application system in m^2)
- Spacing between drip emitters: _____ (mm)
- Where will the irrigation tubing be installed?
  ☐ Above ground level ☐ Below ground level ☐ On the ground surface
- If the irrigation tubing will be installed above or below ground level, how many millimetres above or below ground level will it be installed? _____ (mm)
- Will the irrigation tubing be covered with between 100 and 150 millimetres of soil? ☐ Yes ☐ No
- If the irrigation tubing will not be covered with between 100 and 150 millimetres of soil, please explain why this is the case, e.g. for frost protection reasons, <u>and</u> state how many millimetres of soil will cover the irrigation tubing?

Note: Environment Canterbury discourages the use of drip irrigation tubing that is <u>not</u> covered with soil.

- Will the soil above the drip irrigation tubing be grassed or planted with vegetation? ☐ Yes ☐ No
- Will replanting occur when erosion or die-off has resulted in bare or patchy soil cover? ☐ Yes ☐ No

If the soil above the drip irrigation tubing will not be grassed or planted, please explain why this is.

Note: It may be a requirement of your District or City Council to plant the land application system with certain plants. They may have a list of plants for this purpose. We advise you to check this with the appropriate council.

<u>Sand trench land application system</u>:

- Trench length: _____ (m)
- Trench width: _____ (m)
- If you are proposing a trench width per distribution pipe of more than 600 millimetres, please provide details of how the wastewater will be evenly distributed across this width. _____
- Area of land application system: _____ (m^2) (i.e. trench width (m) x trench length (m))
- Application rate: _____ (mm/day)
  (i.e. maximum daily wastewater flow L/day [as stated in question 2(d)] ÷ effective area of land application system in m^2)
- Spacing of holes on the distribution pipe(s): _____ (mm)
- Will the land application system be mounded above ground level due to high groundwater levels below your property? ☐ Yes ☐ No

If Yes, how many millimetres above ground level will the distribution pipe(s) be? _____ (mm)

- What is the depth (thickness) of treatment material? _____ (mm)
- What is the treatment material? ☐ 2A sand ☐ Other, please specify: _____

Note: If not using 2A sand, please attach evidence (i.e. scientific publications and/or experimental field data) to this application form which explains what the concentration of faecal coliforms will be at the point of discharge and advise of the depth (thickness) of the treatment material.

- If drainage is likely to be impeded below the base of the 2A sand layer in the trench, will free draining material be laid beneath the entire length of the trench? ☐ Yes ☐ No

Please attach a cross-section plan of the sand trench to this application form.

Other land application systems:

- Please attach full details of the land application system you have chosen if it is different to the two systems above. This should include information on the design of the land application system and evidence (i.e. scientific publications and/or experimental field data) which explains what the concentration of faecal coliforms will be at the point of discharge.

Note: Environment Canterbury discourages the use of soak holes/boulder holes to discharge wastewater unless the property is located in an area where groundwater is deeper than 50 metres below the ground surface and the discharge will occur in a rural area.

2(g) Installation and maintenance

- Will the land application system be fenced to prevent vehicle, stock and public access? ☐ Yes ☐ No

Note: It may be a requirement of your District or City Council to fence the land application system. We advise you to check this with the appropriate council.

- Will you submit a letter signed by the person responsible for designing the system or another person experienced in the design of on-site wastewater systems to Environment Canterbury within one month of construction, to certify that the system is constructed and installed in accordance with the design plans?

  ☐ Yes ☐ No

- What is the manufacturer's recommended service frequency for the proposed treatment and land application system?

  ☐ Yearly servicing ☐ Two times a year ☐ Three times a year

  ☐ Other (please specify) _____

- Will your proposed treatment and land application system be serviced at the above frequency by a person experienced in the servicing of on-site wastewater systems? ☐ Yes ☐ No

- If you are proposing a drip irrigation land application system with a service frequency of less than two services per year, or a sand trench land application system with a service frequency of less than one service per year, please provide details as to why your system does not need to be maintained at these frequencies. _____

  _____

  _____

- What will servicing include?

  (i) Measuring the depth of solids and scum in the treatment tank(s). ☐ Yes ☐ No

  (ii) Pumping out a treatment tank if the solids and scum layers combined are greater than two-thirds of the depth of the treatment tank. ☐ Yes ☐ No

  (iii) Checking the outlet filter and cleaning it if necessary. ☐ Yes ☐ No

  (iv) Checking that the pump and float switches are working. ☐ Yes ☐ No

  (v) Flushing the distribution lines until water runs clear. ☐ Yes ☐ No

  (vi) Pressure testing at the end of the distribution pipe(s). ☐ Yes ☐ No

  (vii) Checking the self-flushing distribution line(s). ☐ Yes ☐ No

  (vii) Maintenance of vegetative cover. ☐ Yes ☐ No

  (viii) Please specify any other servicing requirements for your proposed system and why this servicing is required: _____

  _____

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- If you have ticked no to any of the questions (i) to (viii) above, please explain why this servicing is not required for your system. _____

- If you have ticked yes to (v) above, please specify where the wastewater in the lines will be flushed to (e.g. back into the treatment system or to the ground surface) and the volume of wastewater that will be flushed out of the lines. _____

- Will you retain records of any servicing carried out on your system and make these available to Environment Canterbury on request? ☐ Yes ☐ No
- Will you advise Environment Canterbury within six months of a connection to a reticulated sewerage system becoming available for your property? ☐ Yes ☐ No

3. LEGAL AND PLANNING MATTERS

3(a) Does your proposal comply with the General Authorisations for Sewage Tank Disposal included in the Transitional Regional Plan 1991? ☐ **Yes** ☐ **No**

If no, please specify which conditions you cannot comply with: _____

3(b) Does your proposal comply with the conditions in Rule WQL8 of the Proposed Natural Resources Regional Plan? ☐ Yes ☐ No

If no, please specify which conditions you cannot comply with (For example: Condition 10 – distance to groundwater, Condition 12 – distance to property boundaries): _____

Note: See additional notes section of this application form for General Authorisation rules and proposed Natural Resources Regional Plan rules. Alternatively, please contact Customer Services who may be able to help you answer this question.

4. CONSULTATION

- If your proposed land application system is closer than 50 metres in an up-gradient direction (in relation to groundwater direction) and 30 metres in any other direction from any property boundary, have you obtained the written approval of these property owners?

☐ Yes ☐ No ☐ N/A

Note: A written approval form is available at www.ecan.govt.nz or from Customer Services.

If applicable, please provide a map that shows the properties of people who have provided their written approval for your proposal. Please label on this map which people own which properties.

- If your proposed land application system is closer than 50 metres in an up-gradient direction (in relation to groundwater direction) and 30 metres in any other direction from any property boundary, and you have not obtained the written approval of these property owners, please explain why your discharge will not affect their drinking water supply.

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5. DESCRIPTION OF THE AFFECTED ENVIRONMENT

Note: If the section below is not fully completed, it is likely that Council Officers will have to request additional information from you. This will increase the cost and processing time of your application.

5(a) Topography:

- Please describe the topography of the land on your property e.g. flat, rolling, steep (estimate gradient).

  _____

- If the land application system will be located on land with a steep gradient (15^{o} or greater), please advise the angle of the slope.

  _____

- If the land application system will be located on land with a steep gradient, please provide details on slope stability (e.g. whether your property is located on loess soils, whether there are any under runners (tunnel gullies) observed on your property or down gradient of the slope).

  _____

  _____

- If your land application system is located on land with a steep gradient, will cut-off drains be installed around your land application system to prevent surface run-off entering the land application system?

  ☐ Yes ☐ No ☐ N/A

  ***If yes,* please detail on the location map where the cut off drains will be located.**

  If no, please state why cut off drains are not required: _____

  _____

5(b) Soil:

- What are the soil and subsoil types at the location of the discharge (e.g. gravels, sands, sandy loams, loams, clay loams, light clay, medium to heavy clay etc) and what are the relative thicknesses of these soil layers?

Soil type:	Thickness of layer: (mm)
Soil type:	Thickness of layer: (mm)
Soil type:	Thickness of layer: (mm)
Soil type:	Thickness of layer: (mm)
Soil type:	Thickness of layer: (mm)

Note: Please specify the subsoil types to <u>at least</u> 600 millimetres below the discharge point (e.g. 600 mm below the drip irrigation tubing or 600mm below the base of the 2A sand layer in the sand trench).

- How was the soil profile determined, e.g. test hole? _____
- How many holes were dug and where were they dug? _____

Please indicate the location of the test hole(s) on your location map.

- What were the depths of these holes? _____
- What month of the year were these holes dug? _____
- What is the least permeable soil type observed in the test hole? _____
- Was groundwater observed in the test holes? ☐ Yes ☐ No

  If yes, at what depth? _____ (mm)
- Were any iron stains or signs of mottling observed in the test holes? ☐ Yes ☐ No

  If yes, at what depth? _____ (mm)

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Note: Mottling is a discolouration or staining by a colour which is not part of the dominant soil colour. Mottling can indicate that the groundwater has, at some time, fluctuated up to this level. If water has fluctuated that high at some time in the past, the potential exists for a recurrence. The highest groundwater level is now assumed to be the level at which the mottling was observed irrespective of whether water is present at the time the test hole was dug.

Please attach photographs, preferably colour, of the soil profile to this application form if the distance between the highest groundwater level and the drip line or base of the 2A sand trench is closer than 0.5m.

5(c) Groundwater:

Note: You can obtain most of the following information from our website (www.ecan.govt.nz) using our GIS mapping programme or alternatively you can contact Customer Services who may be able to help you obtain some of the following information

- In what direction does groundwater flow beneath your property, e.g. northwest to south east? _____
- How have you determined the groundwater flow direction? _____
- Is your property located over the Christchurch Groundwater Protection Zone? ☐ Yes ☐ No

  Note: If your discharge will occur over the Christchurch Groundwater Protection Zone, a detailed assessment of the effects of the discharge on groundwater quality will be required in section 6(a) of this form.
- What is the highest potential groundwater level (in metres below ground level) beneath your property or surrounding your property? _____ (m)

  Note: The list of questions below may help you to determine this level
- Is your property located over the coastal confined or semi confined/unconfined aquifer?
  ☐ Coastal confined ☐ Semi-confined/unconfined ☐ Neither
- Have you taken groundwater readings from your on-site well or a neighbouring well that might indicate the water table level below your property?
  ☐ Yes ☐ No ☐ N/A
- ***If yes,*** please specify the levels recorded and the dates the readings were taken. *(If known, please include the well number and specify its distance from the proposed land application system).* _____

  _____
- Does Environment Canterbury have groundwater level data for wells located within one kilometre of your property?
  ☐ Yes ☐ No

  If yes, please complete the following table:

Well Number	Well depth (metres)	Distance in (metres) and direction from land application system	Highest groundwater reading (metres below ground level)	Number of readings	Years readings were taken
Example: L35/0241	*8.9*	*180m NW*	*2.6*	*87*	*1973 to 1989*

- If any of these groundwater readings are not relevant to your property, please explain why e.g. your property is on a higher terrace than these wells, the groundwater below your property is artesian etc. _____

  _____

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- How do you obtain drinking water?
  - ☐ Public supply – please specify the maximum daily volume of water you receive, in litres. _____ (if known)
  - ☐ Private well - please specify well number. _____
  - ☐ Private gallery - please specify gallery number. _____
  - ☐ Rainwater - roof collection – please specify the size of the collection tank in litres. _____
  - ☐ Surface water supply – please specify the name of the surface water. _____
- From which of the above do your neighbours obtain drinking water? _____
- Are there any public supply wells taking up to 20,000 litres per day within 200 metres in a down-gradient direction (in terms of groundwater flow) and 50 metres in any other direction from your proposed land application system?
  ☐ Yes ☐ No Well number: _____

  If unsure, *advise if there are any schools, factories, rest homes or wells supplying more than one property within the above-specified distances.* _____

  If yes, what is the distance and compass direction of this well from your land application system? _____
- Are there any public supply wells taking more than 20,000 litres per day within 1000 metres in a down-gradient direction (in terms of groundwater flow) and 200 metres in any other direction from your proposed land application system? ☐ Yes ☐ No *Well number:* _____

  If yes, what is the distance and compass direction of this well from your land application system? _____
- Are there any other wells, within 50 metres in a down-gradient direction (in terms of groundwater flow) and 30 metres in any other direction from your proposed land application system?
  ☐ Yes ☐ No *Well number:* _____

  If yes, what is the distance and compass direction of this well from your land application system? _____

  Note: If your land application system is located within the distances specified in the above three points, your discharge will occur within the protection zone of a well and consequently your discharge could affect the quality of the water abstracted from it. A detailed assessment of the effects of your discharge on groundwater quality will be required in section 6(a) of this form. You are advised to consult with the owner of this well.

5(d) Groundwater quality:

- What are the concentrations of nitrate nitrogen and faecal coliform bacteria in the groundwater surrounding your site? If using Environment Canterbury groundwater quality site data, please supply the well numbers and specify the distance the groundwater quality well site is from your site.

  If you have had your own well or a well on a neighbouring property sampled, please supply the groundwater quality data, the date the samples were taken and the location of the well in relation to your land application system.

Well number	Distance & direction from land application system	Well depth (metres)	Number of samples taken	Highest concentration of bacteria in all samples taken	Highest concentration of nitrate nitrogen in all samples taken	Date of sampling
Example: L35/0241	*180m NW*	*8.9*	*5*	*18cfu/100ml*	*4.5 mg/100ml*	*Between 1999 & 2006*

- Are there any discharges to land within 500 metres of your site, e.g. other on-site wastewater discharges, dairy discharges, meatwork discharges etc? ☐ Yes ☐ No

  If yes, please specify details and consent numbers if known: _____

5(e) Surface water:

- Are there any wetlands or waterbodies (including rivers, streams, springs, drains and stockwater races) within 100 metres of the proposed discharge? ☐ Yes ☐ No

  If yes, what is the name of the wetland or water body (if known) and what is the distance in metres between the wetland or water body and the land application system? _____

- Are there any stormwater discharges or stormwater swales within 20 metres of your land application system? ☐ Yes ☐ No

  If yes, what is distance in metres between the stormwater discharge or stormwater swale and the land application system? _____

5(f) Flood potential:

- Has your property experienced flooding in the past? ☐ Yes ☐ No ☐ Don't know

  If yes, how often does your property experience flooding? _____

  Has the site of the proposed land application system ever been covered with flood water? _____

- Has a flood hazard assessment ever been undertaken on your property? ☐ Yes ☐ No

If yes, please provide a copy of this flood hazard assessment with this application form.

- When building on your property, were you required to raise the building platform above ground level for flood protection reasons? ☐ Yes ☐ No

  If yes, has your land application system been elevated, or placed on elevated land, to provide protection in case of a flood event? ☐ Yes ☐ No

  If yes, please provide details: _____

  _____

  If no, please explain what flood protection measures you will be undertaking to protect your land application system from flood events. _____

  _____

6. ASSESSMENT OF ACTUAL AND POTENTIAL EFFECTS

6(a) Adverse effects of your discharge on groundwater quality

(i) <u>Nitrate-nitrogen</u>:

The nitrogen found in raw wastewater is in various forms. Under certain conditions, this nitrogen can be converted into nitrate-nitrogen. Nitrate-nitrogen is very mobile in soil and any nitrate-nitrogen that is not taken up by plant roots for plant growth can be leached into groundwater. High concentrations of nitrate-nitrogen in drinking water can pose a health risk. For this reason, the Ministry of Health has set a maximum acceptable level equal to 11.3 milligrams per litre for nitrate-nitrogen.

If the concentration of nitrate-nitrogen in the groundwater surrounding your site is greater than 5 milligrams per litre (see question 5(d)), please explain what measures you are proposing to reduce the impact of your discharge on groundwater nitrate nitrogen concentrations in your area. For example, are you proposing a dripline land application system?

_____

_____

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- If your discharge will occur in an area where several other discharges are already occurring, please provide a detailed assessment of the effects of the discharge on groundwater quality.

(please continue on a separate page if required)

- If your discharge will occur within the Christchurch Groundwater Protection Zone (see question 5(c)), please provide a detailed assessment of the effects of the discharge on groundwater quality.

(ii) Pathogens:

- What is the likely concentration of faecal coliform bacteria at the point of discharge from your land application system?

_____ faecal coliforms per 100 millimetre sample.

Please specify how you have determined this. _____

- What is the distance between the base of the land application system and the highest groundwater level surrounding the site?

Note: if the groundwater level at your site is closer than 0.5 metres from the base of a sand trench, you may wish to consider mounding your sand trench or proposing a dripline irrigation land application system. If the groundwater level at your site is closer than 0.5 metres from the dripline irrigation tubing, you may wish to consider mounding your dripline irrigation land application system.

6(b) Adverse effects of your discharge on surface water quality

- If there are any water bodies (e.g. rivers, streams, springs, watercourses, drains etc) or wetlands within 20 metres of the edge of the land application system, please explain how the discharge will not affect the quality of the water in the water body or wetland.

6(c) Effects on public health from wastewater seepage (ponding) on the land surface

- How will your land application system prevent wastewater ponding on the land surface?

6(d) Effects on air quality

- Will there be any adverse effects on air quality (e.g. any odour) from the discharge? ☐ Yes ☐ No
- Are there any dwellings (except your own dwelling) or any places where people gather within 30 metres of the vents of your land application system? ☐ Yes ☐ No

If yes, please specify the distance from the closest dwelling to any vents: _____ metres

6(e) Effects on cultural and historical values

- Is your property in a silent file area? ☐ Yes ☐ No

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A silent file area is an area identified by Ngai Tahu to advise of the general location of wahi tapu (sacred places) or other special sites. The silent file areas have been specified in 'Te Whakatu Kaupapa' – the Ngai Tahu Resource Management Strategy for the Canterbury Region.

Note: Customer Services can advise you if your site is located in a silent file area and can provide you with the contact details of the local Runanga.

- If your property is within a silent file area, have you discussed your proposal with the local Runanga and the Historic Places Trust? ☐ Yes ☐ No

  If yes, what was the outcome of this consultation?

- If your property is within a silent file area, will you accept a disclosure condition, such as the condition below?

  ☐ Yes ☐ No

  "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 relevant Upoko Runanga or their representative, and the New Zealand Historic Places Trust of the disturbance;

  (c) Cease installing the wastewater treatment and land application system in the affected area until an area has been marked off around the site, and Kaumatua and archaeologist have given approval for work to recommence".

  Note 1: 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.

  Note 2: It is possible that archaeological sites may be affected by your proposed works. Evidence of archaeological sites may include burnt and fire cracked stones, charcoal, rubbish heaps including shell, bone and/or glass and crockery, ditches, banks, pits, old building foundations, artefacts of Maori and European origin or human burials. We advise you to contact the New Zealand Historic Places Trust if the presence of an archaeological site is suspected on your property. Work affecting archaeological sites is subject to a consent process under the Historic Places Act 1993. If any activity associated with this proposal, such as earthworks, fencing or landscaping, may modify, damage or destroy any archaeological site(s), an authority (consent) from the New Zealand Historic Places Trust must be obtained for the work to proceed lawfully. The Historic Places Act 1993 contains penalties for unauthorised site damage.

6(f) Other effects applicable to this site

- Please provide an assessment of any other effects that may be relevant e.g. this may include an assessment on the effects of chlorine on the environment if you have proposed to treat the wastewater with chlorine.

7. ADDITIONAL MITIGATION MEASURES

Please provide details of any mitigation measures proposed that have not been included elsewhere in this report.

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8. CONSIDERATION OF ALTERNATIVES

Please explain which alternative locations or treatment options were considered and why they were rejected.

Note: This information is required under the Resource Management Act. If you don't complete this section your application may be returned to you as incomplete.

CHECKLIST OF ITEMS TO BE INCLUDED WITH THE APPLICATION

- ☐ Map showing location of dwelling, land application system, bores, watercourses and property boundaries at the site.
- ☐ Map of the proposed subdivision (if applicable).
- ☐ A cross-section plan of the land application system (if applicable).
- ☐ Written approvals and a map that indicates the properties of people who have provided their written approval to your proposal (if applicable).
- ☐ Photographs of the soil profile (if applicable).
- ☐ A flood hazard assessment (if applicable).

PART C: OTHER INFORMATION

1. PREVIOUS CONSENTS

(a) Have you held any previous consents at this site for this activity or any related activities? ☐ Yes ☐ No
If yes, please supply the consent reference number(s) or consent holder's name (if different from current applicant's name).

CRC_____ Name:_____

(b) If your application is to replace an existing consent which has not yet expired, do you agree to your application being processed outside the timeframes set out in the Resource Management Act (Section 37(5A) approval) but before the expiry of your existing consent? ☐ Yes ☐ No ☐ N/A

2. NOTIFICATION

If your assessment of effects has shown that adverse effects on the environment are likely to be more than minor and/or there are people who may be adversely affected from whom you are unable to obtain written approval, you may wish to request that your application be publicly notified in order to avoid possible delays in the processing of your application.

The final decision to notify or not notify an application will still be made by Environment Canterbury.

Please note that an application cannot be notified unless there is sufficient information for the notice that makes it clear what is being applied for, and how it might affect the environment (including people).

I request that my application is notified. ☐ (check box)

3. DURATION REQUESTED

Please specify the duration sought for your consent(s): _____ years _____ months.

Note: The maximum duration allowed under the Act is 35 years.

4. START DATE

Resource consents lapse five years after their commencement date unless the consent has been given effect to or an application is made to Environment Canterbury to extend this period.

When do you propose to start the activity? _____ (date/month/year)

5. ERRORS AND OMISSIONS

When you receive your Resource Consent Documents please check that the details are correct. You have a 15 working day period after the decision is notified to allow you to object or advise of errors or omissions without cost.

ADDITIONAL NOTES TO APPLICANTS

1. Your application must be publicly notified unless Environment Canterbury is satisfied that the adverse effects on the environment will be minor and written approval has been obtained from every person Environment Canterbury considers may be adversely affected by the granting of your application (unless Environment Canterbury considers it unreasonable to require the obtaining of every such approval). Enclosed is a form "Written Approval of Persons Likely to be Adversely Affected" to help you obtain such approvals.
2. Section 128 of the Resource Management Act 1991 sets out the circumstances in which Environment Canterbury may review the conditions of a resource consent. Under Section 128(c) Environment Canterbury may undertake a review at any time if the application contained any inaccuracies which materially influenced the decision made.
3. The information you provide with your application is official information. It will be used to process your application and, together with other official information, assist in the management of the region's natural and physical resources. Access to information held by Environment Canterbury is administered in accordance with the Local Government Official Information and Meetings Act 1987, and Privacy Act, 1993. Your information may be disclosed in accordance with the terms of these Acts. Public access is also provided to consent information via Environment Canterbury's website. It is therefore important you advise Environment Canterbury if your application includes trade secrets and/or commercially sensitive material.

PART D: SIGNATURE AND DATE

I have read all of the information on this application form and I understand that I am liable to pay all actual and reasonable charges relating to the processing of this application.

I also understand that if the application is granted, I will be liable to pay all actual and reasonable charges related to compliance monitoring of that consent.

*Signature of **consultant***	*Date*	*Full name of person signing – please print*

*Signature of **applicant***	*Date*	*Full name of person signing – please print*

Note: Environment Canterbury must have written authorisation. Both the consultant (if used) and the applicant must sign this section.

Note: Providing the signature of the consultant (if one is used) and the applicant will assist with the prompt processing of your application. If the applicant has not seen and signed this application form, draft consent conditions will need to be sent to the applicant. This may add some costs to the applicant and will delay the issuing of the consent.

CHECKLIST

Have you remembered to?

- ☐ Complete all the details set out in **Part A and Part C** of this application form.
- ☐ Include an assessment of effects of the activity on the environment, set out in **Part B** of this application form
- ☐ Enclose the required maps, plans and written approvals (if applicable)
- ☐ Include a copy of the **certificate of title**, rates demand, subdivision plan or valuation notice for the site your application relates to.
- ☐ **Sign and date** Part D of this application form.
- ☐ Include the **appropriate deposit** charge as set out in the "Summary of Resource Consent charges".