



3b Discharge permit application agricultural discharges to land

Please answer all questions fully. Officers from Greater Wellington's Environmental Regulation department are available to assist with filling out this form or to clarify information to include with your application.

This form is required to be filled out in conjunction with Form 1 Resource Consent Application

Part A: General information on nature and scale of your activity

1. **What is the source of the contaminant(s) eg, dairy, pigs, poultry, horses, beef feedlots**

Dairy sheds: please give supplier number (ie, Fonterra no.) _____

2. **Estimated volume of discharge:**

_____ m³ per day _____ m³ per week

3. **Herd size:**

Please indicate maximum number of animals planned and whether any significant changes in herd size are proposed in the foreseeable future (5-10 years). If there is seasonal variation please indicate (eg, 500 cows milked for 270 days, 300 cows milked 365 days).

4. **Facilities:**

List the activities and areas where effluent is collected from (eg, dairy, feedpads, underpasses, solids storage, silage):

5. Usage:

How many days per year is the discharge likely to occur? (eg, dairy is used for 270 days per year and discharge occurs daily for this period, take into account if no stormwater diversion in place)

(Note: You will need to take into account any stormwater entering the collection system)

6. What is the total area of land (ha) available for effluent disposal?

(Note: you will need to show this area on the locality map – see question 8)

7. The effluent land disposal system consists of:

Do you divert roof stormwater away from the effluent management system? Yes No

If yes, how is it operated/managed _____

Do you divert stormwater from surrounding land away from the milking/holding platform so that it doesn't enter the effluent management system? Yes No

Stone trap Yes No

Sump Yes No If Yes, show them on the locality map (question 8).

Size: Width = _____ m Length = _____ m Depth = _____ m

Volume = $W \times L \times D =$ _____ m^3

Holding pond(s) Yes No If Yes, show them on the locality map (question 8).

Size: Width = _____ m Length = _____ m Depth = _____ m

Volume = $W \times L \times D =$ _____ m^3

Size: Width = _____ m Length = _____ m Depth = _____ m

Volume = $W \times L \times D =$ _____ m^3

Size: Width = _____ m Length = _____ m Depth = _____ m

Volume = $W \times L \times D =$ _____ m^3

What are your ponds sealed with and do they include a leak detection system? (if yes, describe)

Tanker Yes No Area covered: _____ ha

Irrigator Yes No Area covered: _____ ha

Type of irrigator eg, fixed, mobile: _____

Please supply details on the hydraulic application rate of the irrigation system. (The publication 'A Guide to Managing Farm Dairy Effluent: Wellington July 2009' provides instructions on how to carry out this exercise on page 26)

Average application depth (mm) _____

Time taken (hr) _____

(application depth divided by time taken gives average application rate)

Average application rate (mm/hr) _____

If clean stormwater enters the collection system, please explain how the treatment and disposal system is operated/sized to account for this additional water

Please note any other features of the disposal system

8. Locality map and system design

Show the location of your proposed discharge and a detailed sketch/plan of the treatment/discharge system and discharge area. Please show the discharge area and any treatment system in relation to roads, property boundaries, waterways, bores, and the nearest town. Include an estimate of the size of the area to be irrigated (if applicable), the location of any buildings, septic tanks, location of any neighbouring bores/wells, other known abstraction points, freshwater springs, streams, rivers, wetlands that you know of and any other relevant features of the surrounding environment. Alternatively you may wish to attach a plan/aerial photograph showing the above information.

Note: Remember to show where north is.

Part B: Assessment of effects on the environment (AEE)

If your proposed discharge is likely to have a significant impact on the environment you will need to complete a more detailed environmental assessment in accordance with the Fourth Schedule of the Resource Management Act 1991.

1. Describe soil type(s) in the discharge area(s) and the source of this information (eg, soil maps, soil tests, local knowledge):

2. What is the depth to groundwater at the discharge site(s) and the direction of groundwater flow (if known)?

3. What is the land drainage like in the discharge area? Is the soil artificially drained?

4. Within a reasonable distance of the activity are there any:

- | | | |
|---|------------------------------|-----------------------------|
| a) Farm drains (i.e. is the discharge area artificially drained)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b) Waterbodies, groundwater, or groundwater bores? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| c) Water abstractions? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d) Areas where food is gathered (eg, watercress, fish, kaimoana, blackberries)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| e) Wetlands (eg, swamp areas)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| f) Recreational activities carried out (eg, swimming, fishing, canoeing, boating)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| g) Areas of particular aesthetic or scientific value/interest (eg, archaeological sites)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| h) Areas or aspects of significance to iwi that you are aware of? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| i) Is the disposal area land uneven or sloping? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

5. If you have answered yes to any of the above, please provide further information (and mark the location on your map), including a description of what effects your discharge may have on those areas:

6. Describe the biota around the discharge area (eg, fish, birds, eels, insect life, aquatic plants)

7. Describe the effects your discharge may have on the drainage capacity, fertility, ground or surface water of or near the site:

8. Why did you choose the proposed treatment (if any) and disposal method(s) and location(s) for the discharge?

9. What alternative treatment and disposal methods and locations have you considered?

10. Nutrient budget for effluent block(s):

Please provide information on nutrient budgeting (which should include soil testing and fertiliser practice).

Part C: Monitoring and management of your activity

1. What monitoring and management do you propose to ensure any potential adverse effects on the environment are avoided, remedied or mitigated?

(In particular, please provide a description and analysis of contaminant effects on soil and water and any proposed monitoring to ensure that the discharge does not adversely effect soil or water resources. Include details on what is to be monitored, when, how and why.)

2. Operation and management plans

Please include an Operation and Management Plan for the activity. This should include (but not be limited to) how the equipment controlling the treatment and discharge will be operated and maintained to prevent equipment failure (eg, maintenance/servicing schedules), and what measures will be implemented to ensure that the effects of any malfunction are remedied. It should also include contingency plans (eg, effluent storage) in the event of a system malfunction or adverse weather/soil conditions preventing effluent disposal to land (eg, saturated soils).
