Form 2a: Water permit application to dam and/or divert water

Please answer all questions fully. The questions provide a guide in order to satisfy the minimum information requirements that must be included with your application as prescribed in Schedule 4 of the Resource Management Act 1991 (RMA). Depending on the scale of your proposed activity, more detailed information and an Assessment of Environmental Effects (AEE) will be required to support the resource consent application.

Officers from the Greater Wellington Regional Council's (GWRC) Environmental Regulation department are available to assist with filling out this form or to clarify information to include with your application. Up to 1 hour of free pre application advice is available to you.

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

Use this form for any damming or diversion activity which impounds all or part of the flow of a watercourse or alters the natural flow of a watercourse. If the damming or diversion activity requires work in the bed of a watercourse, a land use consent (form 6a) may also be required.

If you wish to dam water, you may need a building consent. All dams regardless of size must comply with the building code. For dams that have a height of 4 or more metres and hold 20,000 or more cubic metres of water or other fluid, a building consent will be required.

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

1. **Does the proposed activity relate to damming or diversion of water, or both?**

   Damming ☐ Diverting ☐ Both ☐

2. **Is the dam or diversion: existing ☐ or proposed ☐?**

3. **What is the purpose of the damming or diversion activity?**

4. **What is the name of the watercourse to be dammed or diverted?**
   (if the watercourse is unnamed, give the name of the watercourse it is a tributary of)

5. **Is the watercourse to be dammed or diverted:**

   Permanently flowing ☐ or **intermittently flowing** ☐?

6. **Will the damming or diversion be:** intermittent ☐ or continuous ☐?
   temporary ☐ or permanent ☐?

   If temporary of intermittent, please describe how and when water will be dammed or diverted:

7. What alternatives have been considered?

8. What is the catchment area upstream of the proposed damming or diversion activity?

9. Site photographs

For new activities, please attach labelled photographs of the site in its present form which include:

- any existing structures at the site
- any eroded areas of bank in the vicinity of the proposed works
- the view of the watercourse downstream of the site
- the view of the watercourse upsteam of the site
- the view of the watercourse and its banks where it will be affected by the works

Please describe the location from which the photographs were taken and indicate whether the proposed site is typical of the watercourse, eg, 10m downstream, from the proposed site, vegetation type typical of the watercourse. Please also provide a scale, eg, have a person in the photograph.

10. Design plans

For new activities, please provide detailed design plans on the exact location and dimensions of any damming or diversion structure, and any other information that will assist with demonstrating the structural integrity of your proposed activity.

(In most cases, scaled engineering drawings prepared by an appropriately qualified engineer will be required to be submitted with your application.)

Also please attach your calculations which show that any structure associated with the damming and diversion activity is adequate including catchment areas, design flood flows, return periods etc.

11. Locality map

Show the location and a detailed sketch/plan of your proposed activity. Please show the proposed activity in relation to roads, property boundaries, neighbouring properties, watercourses, wetlands and other wildlife habitats, existing surrounding structures, historic or wāhi tapu sites, key landmarks, 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: Specific information for diversion activity

1. **Does the diverse activity relate to the construction of a stopbank to divert floodwaters?**

☐ Yes ☐ No

If Yes, please state the design life of the stopbank and the storm size the stopbank is designed to function in? (eg, 1 in 20 year storm) and then go to Parts D, E and F

If No, go to question 2

2. **What is the rate at which water will be diverted?** _____ **cubic metres or litres per second**

3. **For diversions where a new water course will be created:**

a. What is the length of the existing watercourse to be diverted?

b. What is the length of the new watercourse that will be created?

Part C: Specific information for damming activity

1. **What is the dam or weir to be constructed of?** (ie, building materials)

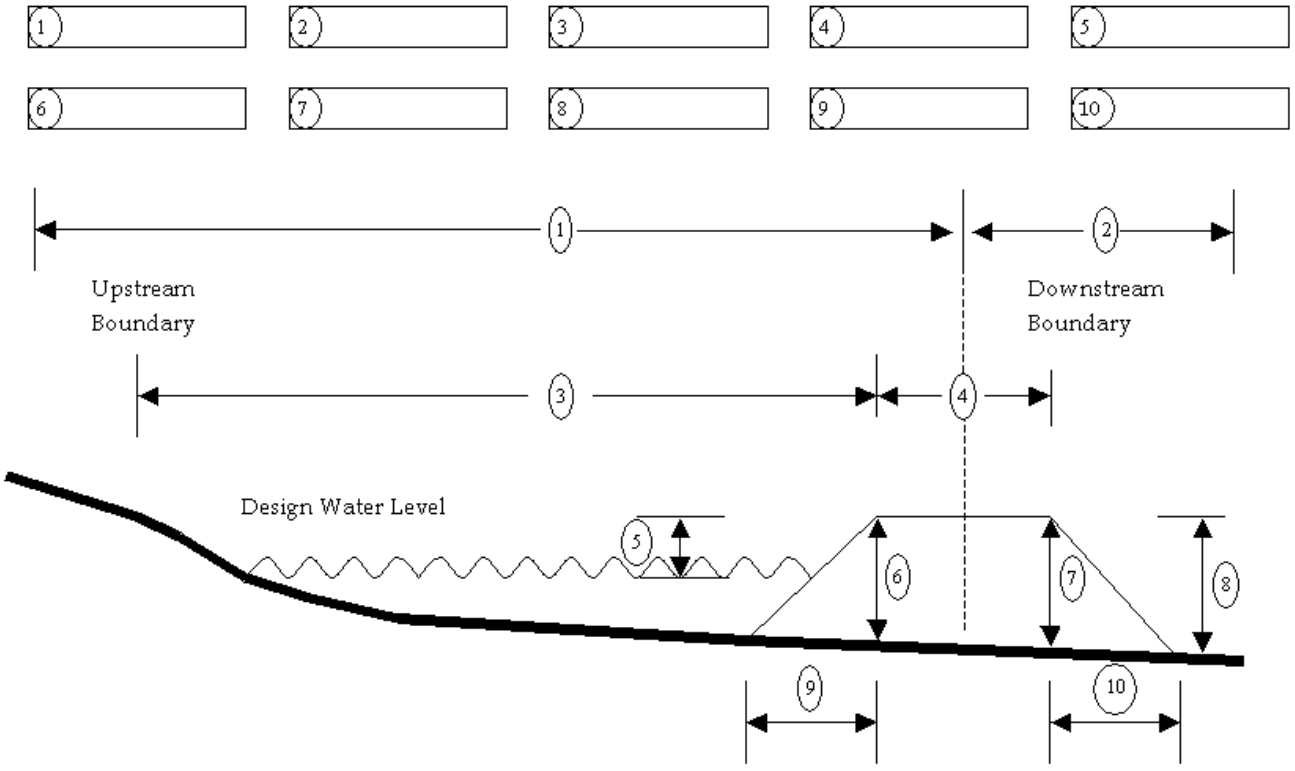
2. **What is the volume of dam reservoir?** (at normal levels) _____ **cubic metres**

3. **Describe any works or temporary structures in the stream bed (eg, coffer dams, diversions, channel realignment) that are proposed to facilitate dam construction.**

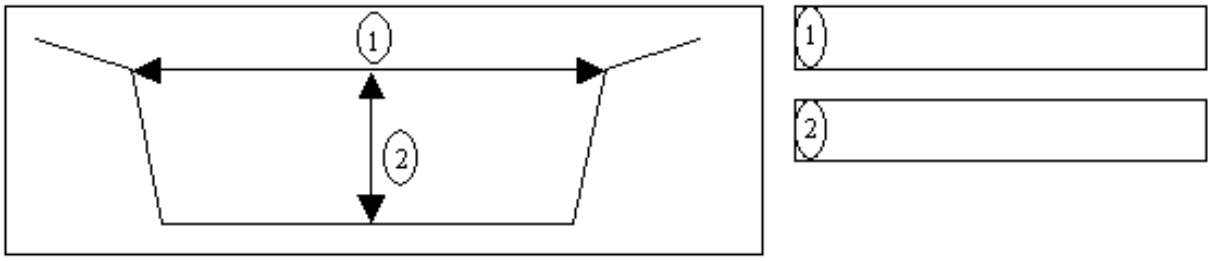
4. **Describe any permanent works proposed in the stream bed (eg, excavation of the reservoir).**

5. **Describe any vegetation clearance or soil disturbance associated with the activity, including providing access to the site) and the proximity of the works to any water bodies.**

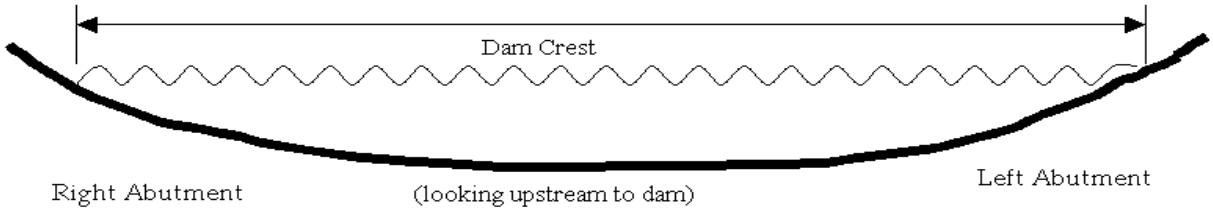
6. For dams, please provide information on dam dimensions in the boxes below using metric measurements:



Spillway Detail



Mark the location of the spillway on the dam crest below:



7. For weirs, please provide information on the following:

Dimensions of the weir including height, width, average depth of water, volume of water retained

If the weir is adjusted (ie, raised or lowered) how this adjustment is completed

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

If you are also applying for a land use consent for the proposed activity and using form 6a, you do not need to complete part D and E of this form.

1. Water quality

What are the actual and potential effects of your proposed activity in terms of water quality and loss of habitat and how do you propose to avoid or minimise these effects?

In consideration of this question, please provide detailed comment on each of the points listed below:

Sediment laden stormwater runoff from site:

Building debris:

Storage and use of machinery fuels:

Concrete:

Other objects or chemicals entering the watercourse:

[Continue on a separate page if necessary]

Note: For guidance on erosion and sediment control measures please refer to the Erosion and Sediment Control for Small sites our web site http://www.gw.govt.nz/council-publications/pdfs/Small%20sites%20guidelines1.pdf or the booklet available from the Greater Wellington Regional Council. To get a booklet sent out to you please call the Environment Helpdesk on 04 830 4255.

2. Machinery

Describe the extent to which machinery is required to undertake your activity and whether machinery is required to enter the watercourse. How do you propose to minimise the effects of machinery in or near the watercourse? How long will any machinery remain in or near the watercourse?

Note: If the works are significant in terms of the machinery required then a management plan for the use of machinery during the works may be required as part of the application.

In consideration of this question, please provide detailed comment on each of the points listed below:

The use of machinery on the banks of a watercourse:

The use of machinery in the bed of a watercourse (including stream crossings):

Storage and use of machinery fuels and/or chemicals:

[Continue on a separate page if necessary]

3. Fish passage and spawning/migration

What are the actual and potential effects of your proposed activity in terms of fish passage and how do you propose to avoid or minimise these effects?

In consideration of this question, please provide detailed comment on each of the points listed below:

Placement of structures in the watercourse:

Alterations to water flow:

Physical barriers to fish passage:

Timing and duration of works that may affect fish spawning/migration:

[Continue on a separate page if necessary]

4. Erosion

What are the actual and potential effects of your proposed activity in terms of erosion and how do you propose to avoid or minimise these effects?

In consideration of this question, please provide detailed comment on each of the points listed below:

Placement of structures in the bed or banks of the watercourse:

Change in water flow velocities and water flow paths:

Removal of vegetation associated with the works:

[Continue on a separate page if necessary]

5. Neighbours and other people

What are the actual and potential effects of your proposed activity in terms of effects on neighbours and/or other people and how do you propose to avoid or minimise these effects?

In consideration of this question, please provide detailed comment on each of the points listed below:

Neighbours:

Department of Conservation/Fish & Game:

Iwi/Heritage New Zealand:

Greater Wellington Regional Council Flood Protection:

Recreational users of the water source:

Downstream water users (eg, those that take water from the stream):

Utility providers with infrastructure in the immediate vicinity:

Other people who may be affected by the work:

[Continue on a separate page if necessary]

6. Other effects

Are there any other actual or potential effects of your proposed activity and how do you propose to avoid or minimise these effects (for example, visual effects, other physical effects)?

In consideration of this question, please provide detailed comment on each of the points listed below:

Downstream effects:

Other effects:

[Continue on a separate page if necessary]

Part E: Assessment against statutory documents

1. Part 2 of Resource Management Act 1991 (RMA)

Have you provided an assessment against Part 2 (Purpose and Principles) of the RMA? http://www.legislation.govt.nz/act/public/1991/0069/latest/DLM231904.html

2. Regional Policy Statement (RPS) & Regional Freshwater Plan (RFP)

Have you provided an assessment of the proposal against the relevant objectives, policies and rules of the Regional Policy Statement (http://www.gw.govt.nz/rps/) and Regional Freshwater Plan (http://www.gw.govt.nz/Regional-Freshwater-Plan/)?

3. Proposed Natural Resources Plan (PNRP)

Have you provided an assessment of the proposal against the relevant objectives, policies and rules of the Proposed Natural Resources Plan? http://www.gw.govt.nz/proposed-natural-resources-plan/

4. Other relevant statutory documents

Have you provided an assessment against all other relevant statutory documents?

5. Permitted activities

Will you be undertaking any permitted activities as part of the proposed works? http://www.gw.govt.nz/regional-plans-policies-and-strategies/

6. Other activities that are part of the proposal

Are there any other activities that are part of the activity which may require consent? (eg, the discharge of contaminants (sediment laden water) into a watercourse)

7. Value of investment

If you are applying to replace an existing consent, please provide an assessment of the value of the investment to which the activity relates.

Part F: Monitoring and management of your activity

1. **What monitoring and management do you propose during the works to ensure any potential adverse effects on the environment are avoided, remedied or mitigated?** (This may include, but is not limited to, monitoring of water quality and sediment discharges, monitoring of equipment to be used, briefing of contractors/operators undertaking the works, contingency measures etc). Include details on what is to be monitored, when, how, and why.

[Continue on a separate page if necessary]

2. **How will you ensure all the contractors/operators undertaking the works are aware of all the consent requirements?**

3. **What ongoing monitoring and management do you propose after the works are complete to ensure any potential adverse effects on the environment are avoided, remedied or mitigated?** (eg, how will stream bed and bank stability, erosion, fish passage etc be monitored and managed?)