



6b(i) Land use consent application to drill geotechnical bores (including tests) in the Lower Hutt Groundwater Zone

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

Part A: General information on nature and scale of activity

1. Please indicate the type of activity to be carried out:

Type	Number of tests	Specifications
<input type="checkbox"/> bore(s)		Diameter: mm Depth: m Bore casing m Will a piezometer be installed? Yes <input type="checkbox"/> No <input type="checkbox"/> If so; Depth: m Diameter mm Screen length m Will a piezometer be installed permanently? Yes <input type="checkbox"/> No <input type="checkbox"/> If no what duration will it be installed for? Will an upstand or toby box be used? Please provide detail Please attach an as-built drawing of the installation with this application.

<input type="checkbox"/> cone penetration test(s)		Diameter: mm Depth m
<input type="checkbox"/> standard penetration test(s)		Diameter: mm Depth m
<input type="checkbox"/> dynamic cone penetration test(s)		Diameter: mm Depth m
<input type="checkbox"/> test pit(s)		Diameter: mm Depth m
<input type="checkbox"/> Other please specify:		Diameter: mm Depth m

2. What is your proposed date to start work? ____/____/____

Name and address of driller/company

Phone number of driller/company:

Email of driller/company:

3. Will the geotechnical bore(s) encounter the aquitard? Yes No

a) If yes, please advise how many metres the bore(s) will penetrate into the aquitard

4. Will the geotechnical bore(s) breach the aquitard? Yes No

a) If yes, please advise how many metres the bore(s) will extend beyond the aquitardm

5. Will you encounter artesian flow conditions? Yes No Unknown

a) If yes, what methods will be used for controlling pressurised flow, e.g. dual casing.
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b) If unknown, what measures will be in place to control pressurised flow if encountered?
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6. Please describe land use within 100 metres of the proposed bore site, e.g. dairy shed, grazing, lawn, noting distances to any contaminated sites, septic tanks, waste disposal sites, other bores, wetlands and springs/streams/rivers.

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7. Are there any production bores within 100m of the geotechnical bore(s) and test(s)? Yes No

a) If yes, please state the location of the production bore(s)

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b) How could the bores identified be affected by the geotechnical investigation and what measures will be taken to ensure the effects identified are avoided?

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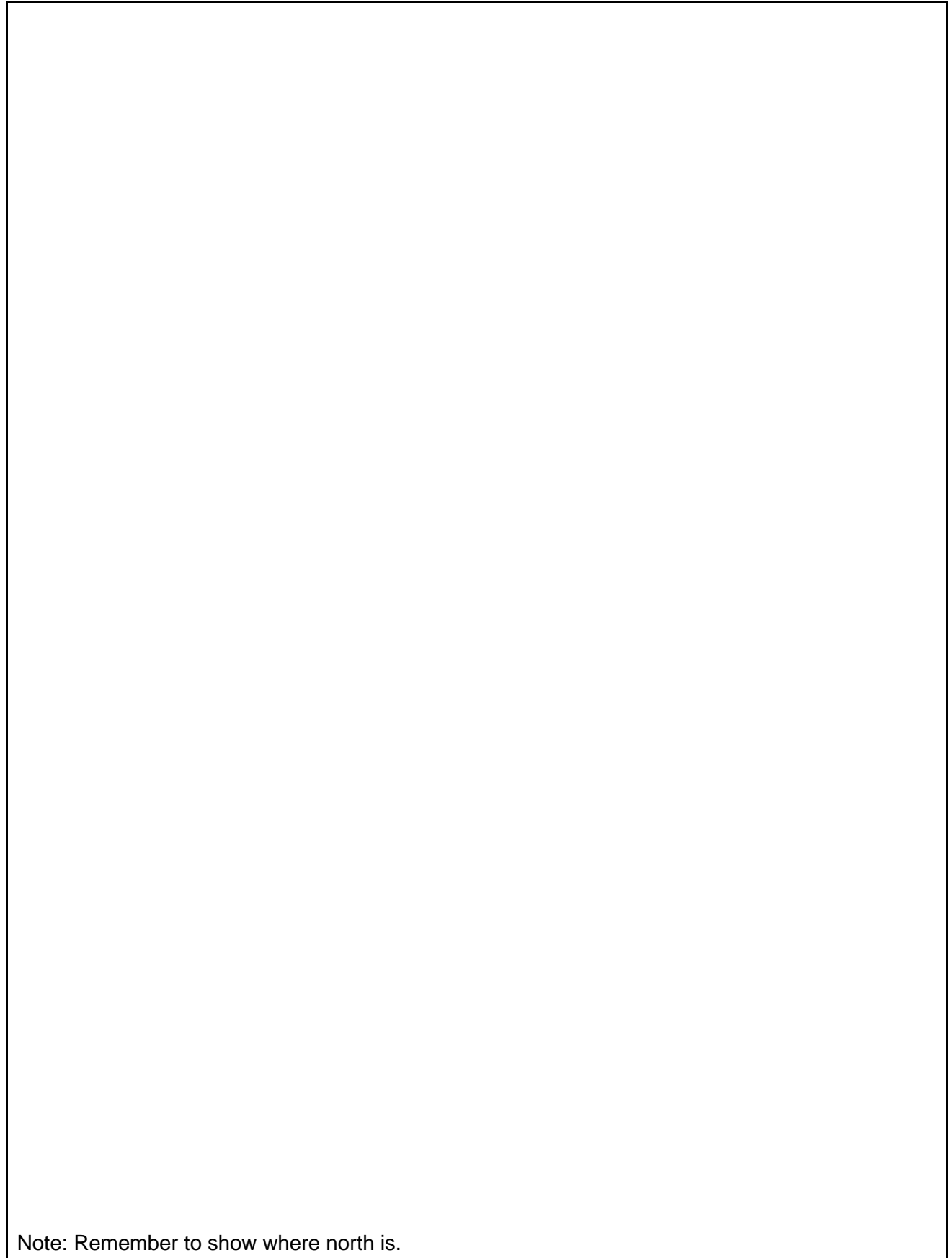
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8. Locality map

Please attach a plan/aerial photograph showing the location of your proposed bore. The plan/aerial also needs to show the location of any buildings, roads, septic tanks, other bores, freshwater springs, streams, rivers, wetlands and waste disposal sites that you know of. **Please ensure any production bores are explicitly identified.**



Note: Remember to show where north is.

Part B: Assessment of environmental effects (AEE)

Where your activity could have a significant adverse effect on the environment a more detailed environmental assessment is required in accordance with the Fourth Schedule of the Resource Management Act 1991.

1. Preventing groundwater contamination and ensuring the integrity of the aquitard

Geotechnical investigation bores and tests have the potential to result in the loss of aquitard integrity and the contamination of groundwater through aquifer cross-connection and leakage from the ground surface into groundwater. All geotechnical investigations must be adequately undertaken, sealed and backfilled to prevent this.

- a) Please provide details, including a plan or diagram, of how the geotechnical bore(s) and/ or investigation(s) will be constructed/undertaken and backfilled to prevent aquifer cross-connection. You must demonstrate that all aquifers and permeable zones of differing pressure, water quality, or temperature are sealed to prevent the interconnection between the aquifers and permeable zones; this includes measures to ensure that the integrity of the aquitard is not compromised.

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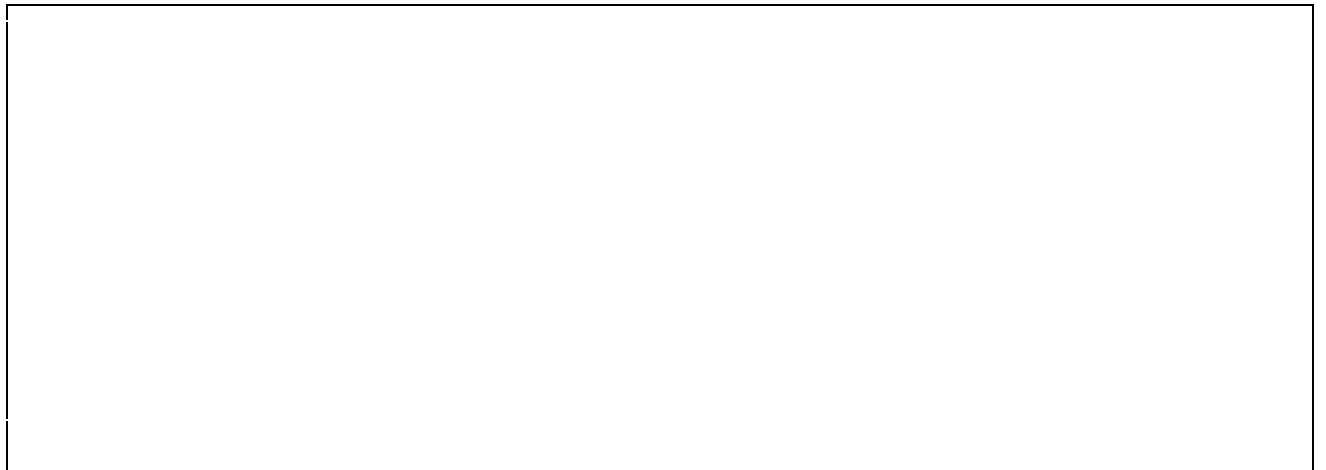
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b) Please provide details, including a plan or diagram, of how the geotechnical bore (s) and investigation(s) will be constructed/ undertaken to prevent the contamination or pollution of groundwater by surface or shallow subsurface sources. This includes identifying what contaminants may be present at the site and measures for ensuring identified contaminants do not enter groundwater as a result of the geotechnical investigation(s).



2. Other environmental effects

a) Comment on any possible environmental effects that may occur and any other information you consider may assist the Council in processing your application.

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Part C: Monitoring and management of your activity

1. What monitoring do you propose to carry out to ensure that the construction/or alteration of your bore does not have any adverse effects on the environment?

Note: On completion of the construction of your bore you will be required to provide a bore log completed by your driller.

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