greater WELLINGTON
REGIONAL COUNCIL
Te Pane Matua Taiao

Form 1: Application for resource consent

(All sections must be completed in full – failure to do so may result in your application not being accepted and/or returned)

1. Location of proposed activity

Describe the location of activity and/or property address

Between MacKays Crossing and Peka Peka on the Kapiti Coast. Refer to Chapter 6 of the AEE Report (Volume 2) and the Land Requirement Plans within the 'Plan Set' (Volume 5).	Map reference: NZTM:	
	Valuation reference [from rates]:	

Include the name of any relevant stream, river or other waterbody to which the application may relate, proximity to any well know landmark, etc. (Note: a location ap is required in your activity form.)

Legal description [from rates notice]

N/A

Office use only:	
FILE REF:	
Doc. No.	
Referred to	Int

2. Description of proposed activity

The construction, operation and maintenance of the MacKays to Peka Peka Expressway. Resource Consents applied for under Greater Wellington Regional Council jurisdiction include:

NSP 12/01.003: Land use consent to disturb soil in areas identified as being erosion prone, and undertake large scale vegetation clearance for the MacKays to Peka Peka Expressway.

NSP 12/01.004: Land use consent to disturb soil for the construction of roading and tracking for the MacKays to Peka Peka Expressway.

NSP 12/01.005: Discharge permit to discharge sediment and chemical flocculant in treated stormwater runoff to water, and to land where it may enter water, in association with bulk earthworks for the MacKays to Peka Peka Expressway.

Whareroa Stream Catchment

NSP 12/01.006: Land use consent to undertake the following activities within Queen Elizabeth Park Drain:

- To place structures (culverts, rip rap, and stormwater outlets) and the associated diversion and reclamation of a section of the bed in this catchment; and
- To remove an existing culvert;

including the associated disturbance of, and deposition of material on, the bed of the watercourse in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.007: Water permit to temporarily divert the flow of the Queen Elizabeth Park Drain during construction of the culvert and associated structures in the bed of the waterway in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.008: Water permit to permanently divert the full flow of the Queen Elizabeth Park Drain in the vicinity of the MacKays to Peka Peka Expressway.

Note: All information provided in your application is available to the public.

Wharemauku Stream Catchment

NSP 12/01.009: Land use consent to undertake the following activities within and over Drain 7, an unnamed tributary of Drain 7 and the Wharemauku Stream:

- To place structures (culverts, rip rap, and stormwater outlets) and the associated diversion and reclamation of a section of the bed in this catchment; and
- To remove an existing culvert;

including the associated disturbance of, and deposition of material on, the bed of the watercourses in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.010: Water permit to temporarily divert the flow of Drain 7, an unnamed tributary of Drain 7 and the Wharemauku Stream during construction of the culvert and bridges and associated structures in the bed of the waterway in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.011: Water permit to permanently divert the full flow of Drain 7 and an unnamed tributary of Drain 7 in the vicinity of the MacKays to Peka Peka Expressway.

Waikanae River Catchment

NSP 12/01.012: Land use consent to undertake the following activities within and over Mazengarb Drain, Waste Water Treatment Pond Drain, Landfill Drain, Otaihanga Drain, an unnamed tributary of the Muaupoko, Muaupoko Stream and the Waikanae River:

- To place structures (culverts, rip rap, and stormwater outlets) and the associated diversion and reclamation of a section of the bed in this catchment; and
- To remove an existing culvert;

including the associated disturbance of, and deposition of material on, the bed of the watercourses in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.013: Water permit to temporarily divert the flow of Mazengarb Drain, Waste Water Treatment Pond Drain, Landfill Drain, Otaihanga Drain, an unnamed tributary of the Muaupoko and the Waikanae River; during construction of the culvert and bridges and associated structures in the bed of the waterway in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.014: Water permit to permanently divert the full flow of the Mazengarb Drain, Waste Water Treatment Pond Drain, Landfill Drain, Otaihanga Drain, an unnamed tributary of the Muaupoko, Muaupoko Stream and the Waikanae River in the vicinity of the MacKays to Peka Peka Expressway.

Waimeha Stream Catchment

NSP 12/01.015: Land use consent to place structures (bridges, culverts, rip rap, and stormwater outlets) within and over Market Garden Drain and Waimeha Stream; and the diversion and reclamation of a section of the bed in this catchment, including the associated disturbance of, and deposition of material on, the bed of the watercourses in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.016: Water permit to temporarily divert the flow of the Market Garden Drain and Waimeha Stream during construction of the culvert and bridges and associated structures in the bed of the waterway in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.017: Water permit to permanently divert the full flow of the Market Garden Drain in the vicinity of the MacKays to Peka Peka Expressway.

Ngarara Creek Catchment

NSP 12/01.018: Land use consent to undertake the following activities within and over Ngarara Creek, Kakariki Stream, Smithfield Drain, unnamed tributary of Paetawa Drain and Paetawa Drain:

- To place structures (culverts, rip rap, and stormwater outlets) and the associated diversion and reclamation of a section of the bed in this catchment; and
- To remove an existing culvert;

including the associated disturbance of, and deposition of material on, the bed of the watercourses in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.019: Water permit to temporarily divert the flow of the Ngarara Creek, Kakariki Stream (at the local road bridge), Smithfield Drain, an unnamed tributary of Paetawa Drain and the Paetawa Drain; during construction of the culvert and bridges

and associated structures in the bed of the waterway in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.020: Water permit to permanently divert the full flow of the Ngarara Creek, Kakariki Stream (at local road and Expressway bridges), Smithfield Drain, an unnamed tributary of Paetawa Drain and the Paetawa Drain; in the vicinity of the MacKays to Peka Peka Expressway.

Hadfield/Te Kowhai Stream Catchment

NSP 12/01.021: Land use consent to undertake the following activities within Hadfield/Te Kowhai Stream:

- To place structures (culverts, rip rap, and stormwater outlets) and the associated diversion and reclamation of a section of the bed in this catchment; and
- To remove an existing culvert;

including the associated disturbance of, and deposition of material on, the bed of the watercourse in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.022: Water permit to temporarily divert the flow of the Hadfield/Te Kowhai Stream; during construction of the culvert and bridges and associated structures in the bed of the waterway in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.023: Water permit to permanently divert the full flow of the Hadfield/Te Kowhai Stream; in the vicinity of the MacKays to Peka Peka Expressway.

NSP 12/01.024: Land use consent for the construction of bore holes for groundwater extraction, and for the formation of holes for bridge piles where this may intercept groundwater.

NSP 12/01.025: Water permit to take groundwater for bore testing, dewatering of excavations, dust suppression and construction purposes.

NSP 12/01.026: Water permit to divert groundwater from wetlands adjacent to the MacKays to Peka Peka Expressway.

NSP 12/01.027: Land use consent for the partial reclamation of wetlands (defined as lakes), being the Raumati Manuka Wetland, Otaihanga Southern and Northern Wetlands and El Rancho Wetland, in the vicinity of the MacKays to Peka Peka Expressway Project alignment, including the associated disturbance of the beds.

NSP 12/01.028: Land use consent to remove vegetation in the beds of various watercourses and wetlands (defined as lakes), being the Raumati Manuka Wetland, Otaihanga Southern and Northern Wetlands and El Rancho Wetland, including the associated disturbance of the beds.

NSP 12/01.029: Discharge permit to discharge treated cement contaminated water to water, and to land where it may enter water.

NSP 12/01.030: Discharge permit to discharge contaminants to land from contaminated sites.

Refer to Part D of the AEE Report, Volume 2.

3. Consents from Greater Wellington – activity forms you need to fill in

Consent(s) being applied for. You will need to fill in an activity form for each of the foll wing activities: Make sure you a t ch the forms for your activity

Water:		**Land Use:**	
Dam/Divert (Form 2a)	☒	General river/stream works (Form 6a)	☒
Take and use surface water (Form 2b)	☐	Bore/well construction (Form 6b)	☒
Take and use groundwater (Form 2c)	☒	Bridge/culvert/pipe (Form 6c)	☒
Discharge to Land:		Erosion protection structures (Form 6d)	☒
General discharges (Form 3a)	☒	Land clearing/tracking/logging soil disturbance (Form 6e)	☒
Agricultural discharge (Form 3b)	☐	**Coastal:**	
On-site wastewater (Form 3c)	☐	General coastal (Form 7a)	☐
Discharge to Water:		Boatshed (Form 7b)	☐

General discharges (Form 4a) ☒ Swing mooring (Form 7c) ☐

Discharge to Air: ☐

Air discharge (Form 5a) ☐

4. Applicant's details

Applicant(s) name(s) and address ie, whose name will be on the consent. Note if a private or family trust is the applicant, all the trustees are required to provide contact details and sign the application form (see 6. below)]

NZ Transport Agency	T: Business		T: ri a e	
	Fax:		T: Mobile	
	Email address:			

The applicant is the:

Owner ☐ Occupier ☐ Lessee ☐ Prospective Purchaser ☐ The Crown ☐

Network Utility Operator ☒ Other ☐ Please specify: _____

5. Agent's details

Agent's name and address [Please note that all correspondence will be sent to the Agent as the first point of contact during the application process]

Dean Ingoe, NZ Transport Agency	T: Business	**04 931 8918**	T: Private	
PO Box 5084	Fax:		T: Mobile:	**021 226 9279**
Wellington 6145	Email address:	**dean.ingoe@nzta.govt.nz**		

6. Partnership/unincorporated entity details

For partnerships or unincorporated entities (such as private trusts or unincorporated bodies or societies) you **must** provide details of all authorised partners, trustees or members. Any consent granted will then include these names, and all individuals will be legally responsible for the consent and any associated costs. Should these persons change, then you must notify us.

Full name of person:	NA		
Status (eg, partner, trustee):			
Address:			
Email address:		Phone:	
Full name of person:	NA		
Status (eg, partner, trustee):			
Address:			
Email ad ress:		Phone:	
Full name of person:	NA		
Status (eg, partner, trustee):			

Address:

Email address: Phone:

Include details of any further partners/trustees/members on a separate page if necessary

7. Property owner's name (if different from above)

NA T: Business T: Private

Fax: T: Mobile:

Email address:

If your proposed activity will take place on land not owned by the applicant, the written approval of the property owner should be provided below.

Signature of property owner Date:

Name [block capitals]:

8. Consents from local authorities

Territorial authority in which land is situated:

Wellington City Council	☐	Kapiti Coast District Council	☒
Hutt City Council	☐	Masterton District Council	☐
Upper Hutt City Council	☐	South Wairarapa District Council	☐
Porirua City Council	☐	Carterton District Council	☐

Do you require any other resource consents from your local council? Yes ☒ No ☐

If yes, please list:

A notice of requirement to designation the land required for the construction, operation and maintenance of the Mackays to Peka Peka Expressway alignment.

A Restricted Descretionary Activity Resource Consent under Regulation 10 of the Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations (NES), 2011, for the disturbance and/or use of contaminated land during construction of the proposed Expressway at 55 Rata Road.

Have these consents been applied for? Yes ☒ No ☐

9. Other documentation

Please list any documents in addition to your application forms that form part of your application. Note: if multiple other documents exist, please attach a separate sheet of paper.

☐ No other documents

☒ Reports Title: AEE Report (Volume 2), Technical Reports and Supporting Documents (Volume 3)

☒ Plans Management plans (Volume 4), Plan Set (Volume 5)

☐ Other documents

10. Consultation and written approval of affected parties

Consultation with all parties potentially affected by your activity prior to lodging your application may result in considerable time and cost savings.

Non-notified applications

Non-notified consents are for activities which have minor effects on the environment. For your activity to be considered on a non-notified basis you must consult and obtain written approval from all parties potentially affected by your activity (eg, neighbours, iwi, Fish and Game Council, Department of Conservation). If you are unsure who may be an affected party, please call us. ***Non-notified consents are significantly cheaper and quicker to process***.

Limited notified and fully notified applications

Notified consents (either limited notified or fully notified consents) are for activities which do not meet requirements in the RMA for processing on a non-notified basis.

Please provide any consultation details and written approvals obtained in the space provided below.

Consultation details

Have you consulted with iwi? Yes ☒ No ☐

If so, who did you consult? Refer to Part F, Chapter 10 of the AEE Report (Volume 2), and Technical Reports 3 (Volume 3)

Who else have you consulted and what was their response? Refer to Part F, Chapter 10 of the AEE Report (Volume 2) and Technical Report 3 (Volume 3)

How have you addressed any concerns they may have had? Refer to Part F, Chapter 10 of the AEE report (Volume 2) and Technical Report 3 (Volume 3)

Written approval of affected parties

If you have obtained the signature of affected parties please give their details below. Please note that for us to accept the parties as having given affected party consent **they must complete and sign form 1B**.

Name	Address	Owner/Occupier	Contact details (phone, email etc)

11. Declaration concerning payment of fees (Billing name and address)

I/we understand that the Council may charge me/us for all costs actually and reasonably incurred in processing this application and, if granted, for any subsequent monitoring charges. Subject to my/our rights under sections 357B and 358 of the RMA to object to any costs, I/we undertake to pay all and future processing costs and monitoring costs incurred by the Council. Without limiting the Council's legal rights, if any steps, including the use of debt collectors, are necessary to recover unpaid processing costs, I/we agree to pay all costs of recovering those processing costs. If this application is made on behalf of a trust (private or family), a society (incorporated or unincorporated) or a company in signing this application I/we are binding the trust, society or company to pay all the above costs and guaranteeing to pay all the above costs in my/our personal capacity.

Full name: NA Date:

Please note the name and address supplied here will be the billing address used for all invoices and annual monitoring charges (where applicable). The fees and charges are set out in the Greater Wellington "Resource Management Charging Policy".

12. Signature of applicant/agent

I/we hereby certify that, to the best of my knowledge and belief, the information given in this application is true and correct.

Full name: Rod James, State Highway Manager Wellington

Date: 3 April 2012

Signature

greater WELLINGTON
REGIONAL COUNCIL

2a Water permit application to divert water

Use this form for any activity which alters the natural flow of a watercourse.

Please answer all questions fully. You should discuss your application with one of Greater Wellington's resource advisors before completing this form.

Show the location of the activity and adjoining properties on your map on Form 1. Include design plans and details with this application as appropriate.

Part A: general

1. Is the diversion: existing ☐ or proposed ☒ ?

   If the diversion relates to a new activity, a Land Use Consent may also be required. Use Application Form No. 10.

   If the diversion is in the coastal marine area, a Coastal Permit to Divert Water is required. You can make the application on this form. A coastal permit to erect any structures and occupy the coastal marine area is required for a new diversion. Use Application Form No. 12.

2. Why are you diverting water (eg, stormwater control, river works, stream realignment, etc)?

   A water permit is required to divert groundwater from wetlands adjacent to the MacKays to Peka Peka Expressway to enable the construction of the MacKays to Peka Peka Expressway.

   Construction groundwater take is likely to result in small changes to groundwater levels, flow directions and aquifer through flow and such changes will be limited to the construction period (approximately 4 years).

   Refer to the Assessment of Groundwater Effects, Technical Report 21 (Volume 3) and Plans GT-GW-100 to 111 (Management Plan Appendices, Appendix I, Volume 5) for details of the groundwater diversion.

   Potential settlement effects resulting from groundwater drawdown are described in Technical Report 35, Volume 3 and the potential effects resulting from changes to groundwater levels in the vicinity of wetlands are described in Technical Report 26, Volume 3.

3. What is the name of the watercourse to be diverted?
   (If the stream is unnamed, give the name of the watercourse it is a tributary of.)

   The construction of the proposed Expressway has the greatest potential to affect the shallow groundwater system i.e. the Holocene Sand, Peat and Alluvium because works will be largely carried out within these materials.

   For Question 4, refer to Section 4.2 of Technical Report 21, Volume 3.

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

5. Will the diversion be: intermittent ☐ or continuous ☐ ?
   temporary ☐ or permanent ☒ ?

If temporary, what will be the maximum operating period? _____ hours per day

_____ days per week

_____ weeks per year

6. Does the diversion also involve:

Taking water?	Yes ☐	No ☒
Damming water?	Yes ☐	No ☒
Discharging?	Yes ☐	No ☒
Any structures?	Yes ☐	No ☒

If you answered yes to any of 6 above, a separate consent application may be required.

Part B: assessment of effects on the environment

Where your diversion 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. Will the diversion have an effect on water availability to downstream users and/ or affect access to neighbouring properties? Yes ☐ No ☒

2. Within a reasonable distance up or downstream of the diversion are there any:
   - (1) Obvious signs of biota (eg, fish, eels, insect life, aquatic plants)? Yes ☒ No ☐
   - (2) Areas where food is gathered from the stream (eg, watercress, eels, wild fowl, kaimoana)? Yes ☒ No ☐
   - (3) Wetlands (eg, swamp areas)? Yes ☒ No ☐
   - (4) Waste discharges (eg, from rural sources, industries, sewage plants)? Yes ☒ No ☐
   - (5) Recreational activities carried out (eg, swimming, fishing, canoeing)? Yes ☒ No ☐
   - (6) Areas of particular aesthetic or scientific value (eg, scenic waterfall, rapids, archaeological sites)? Yes ☒ No ☐
   - (7) Areas or aspects of significance to iwi that you are aware of? Yes ☒ No ☐

   If you have answered yes to 1 and any part of 2 above, describe what effects your diversion may have and the steps you propose to take to mitigate these. If the adverse effect is significant, describe alternative locations or methods you have considered for undertaking the diversion:

   Refer to Part E, Chapter 9 of the AEE Report, Volume 2, for the consideration of alternatives.

   The potential effects resulting from local groundwater drawdown are described in Technical Report 35, Volume 3 and the potential effects resulting from changes to groundwater levels in the vicinity of wetlands are described in Technical Report 26, Volume 3.

   Refer to Part H of the AEE Report, Volume 2, for proposed mitigation and conditions.

   [Continue on a separate page if necessary]

3. Have you provided any means for fish to bypass the diversion (eg, fish ladders, elver tubes, etc)? Yes ☐ No ☐

   Please describe N/A

4. Describe the bed of the watercourse immediately above and below the diversion site (eg, is it gravelly, muddy or sandy?):

   N/A

Part B: assessment of effects on the environment (continued)

5. Will the diversion cause any flooding or other problems to neighbouring properties? Yes ☐ No ☒

   Please describe

   Refer to Technical Report 21, Volume 3.

6. Please attach your calculations which show that the diversion design is adequate, including design flood flows, return periods, etc

7. Have you discussed your diversion with any potentially affected parties (eg, neighbours, water users, Fish and Game New Zealand, Department of Conservation? Yes ☒ No ☐

8. Are there any alternative sites or methods for the diversion? If yes, why have you not chosen any of these? Yes ☐ No ☒

   Refer to Part E, Chapter 9 of the AEE Report, Volume 2, for the consideration of alternatives, and Technical Report 21, Volume 3.

9. What, if any, monitoring do you propose to carry out to ensure that your diversion does not have any adverse effect?

   Refer to Part H, Chapter 31 of the AEE Report, Volume 2; the Ecological Management Plan (Appendix M of the CEMP, Volume 4); and the Groundwater (Level) Management Plan (Appendix I of the CEMP, Volume 4).

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Consent No. _____

Renewal: Yes ☐ No ☐

greater WELLINGTON
REGIONAL COUNCIL

2a Water permit application to divert water

Use this form for any activity which alters the natural flow of a watercourse.

Please answer all questions fully. You should discuss your application with one of Greater Wellington's resource advisors before completing this form.

Show the location of the activity and adjoining properties on your map on Form 1. Include design plans and details with this application as appropriate.

Part A: general

1. Is the diversion: existing ☐ or proposed ☒ ?

   If the diversion relates to a new activity, a Land Use Consent may also be required. Use Application Form No. 10.

   If the diversion is in the coastal marine area, a Coastal Permit to Divert Water is required. You can make the application on this form. A coastal permit to erect any structures and occupy the coastal marine area is required for a new diversion. Use Application Form No. 12.

2. Why are you diverting water (eg, stormwater control, river works, stream realignment, etc)?

   Water Permit to temporarily and/or permanently divert the flow of watercourses to enable the construction of the Mackays to Peka Peka Expressway.

3. What is the name of the watercourse to be diverted?
   (If the stream is unnamed, give the name of the watercourse it is a tributary of.)

   For Questions 3 to 6, refer to Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and drawings CV-SW-100 to 394 (Technical Report Appendices, Report 22, Volume 5). Refer to Part D, Chapter 7 of the AEE Report, Volume 2 for a list of temporary and permanent diversions requiring consent.

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

5. Will the diversion be: intermittent ☐ or continuous ☐ ?
   temporary ☒ or permanent ☒ ?

   If temporary, what will be the maximum operating period? _____ hours per day

   _____ days per week

   _____ weeks per year

6. Does the diversion also involve:

Taking water?	Yes ☐	No ☒
Damming water?	Yes ☐	No ☒
Discharging?	Yes ☐	No ☒
Any structures?	Yes ☒	No ☐

If you answered yes to any of 6 above, a separate consent application may be required.

Part B: assessment of effects on the environment

Where your diversion 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. Will the diversion have an effect on water availability to downstream users and/ or affect access to neighbouring properties? Yes ☐ No ☒

2. Within a reasonable distance up or downstream of the diversion are there any:
   - (1) Obvious signs of biota (eg, fish, eels, insect life, aquatic plants)? Yes ☒ No ☐
   - (2) Areas where food is gathered from the stream (eg, watercress, eels, wild fowl, kaimoana)? Yes ☒ No ☐
   - (3) Wetlands (eg, swamp areas)? Yes ☒ No ☐
   - (4) Waste discharges (eg, from rural sources, industries, sewage plants)? Yes ☒ No ☐
   - (5) Recreational activities carried out (eg, swimming, fishing, canoeing)? Yes ☒ No ☐
   - (6) Areas of particular aesthetic or scientific value (eg, scenic waterfall, rapids, archaeological sites)? Yes ☒ No ☐
   - (7) Areas or aspects of significance to iwi that you are aware of? Yes ☒ No ☐

   If you have answered yes to 1 and any part of 2 above, describe what effects your diversion may have and the steps you propose to take to mitigate these. If the adverse effect is significant, describe alternative locations or methods you have considered for undertaking the diversion:

   Refer to Part E, Chapter 9 of the AEE Report, Volume 2, for the consideration of alternatives.

   Refer to Part G, AEE Report, Volume 2, Chapters on the potential effects of diversions: Hydrology and Stormwater (Chapter 24); Water Quality (Chapter 28); Freshwater Ecology (Chapter 22); Marine Ecology (Chapter 23); Tangata Whenua and Cultural Heritage (Chapter 14).

   Refer to the ESCP (Appendix H of the CEMP, Volume 4) for the methodology of diversions.

   Refer to the Ecological Management Plan (Appendix M of the CEMP, Volume 4) and the Landscape Management Plan (Appendix T of the CEMP, Volume 4) for the management of diversions.

   Refer to drawings CV-CM-246 and 247 (Management Plan Appendices, Appendix H, Appendix H.R, Volume 5) for illustrations of the proposed stream diversion methodology.

   [Continue on a separate page if necessary]

3. Have you provided any means for fish to bypass the diversion (eg, fish ladders, elver tubes, etc)? Yes ☒ No ☒

   Please describe Refer to Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and the Ecological Management Plan (Appendix M of the CEMP, Volume 4).

4. Describe the bed of the watercourse immediately above and below the diversion site (eg, is it gravelly, muddy or sandy?):

   Refer to Chapter 2 of Technical Report 22, Volume 3.

Part B: assessment of effects on the environment (continued)

5. Will the diversion cause any flooding or other problems to neighbouring properties? Yes ☐ No ☒

   Please describe

   Refer to Part G, Chapter 24 of the AEE Report, Volume 2 and Technical Report 22, Volume 3.

   For information on consultation and engagement refer to Part F, Chapter 10 of the AEE Report, Volume 2.

6. Please attach your calculations which show that the diversion design is adequate, including design flood flows, return periods, etc

7. Have you discussed your diversion with any potentially affected parties (eg, neighbours, water users, Fish and Game New Zealand, Department of Conservation? Yes ☒ No ☐

8. Are there any alternative sites or methods for the diversion? If yes, why have you not chosen any of these? Yes ☐ No ☒

   Refer to Part E, Chapter 9 of the AEE Report, Volume 2, for the consideration of alternatives; and Technical Report 22, Volume 3.

9. What, if any, monitoring do you propose to carry out to ensure that your diversion does not have any adverse effect?

   Refer to Part H, Chapter 31 of the AEE Report, Volume 2; the Erosion and Sediment Control Plan (Appendix H of the CEMP, Volume 4); the Ecological Management Plan (Appendix M of the CEMP, Volume 4); and the Landscape Management Plan (Appendix T of the CEMP).

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Consent No. _____

Renewal: Yes ☐ No ☐

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REGIONAL COUNCIL
Te Pane Matua Taiao

2c Water permit application to take and use groundwater

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. Is this application a renewal of a water permit to take/use groundwater from your bore/well?

Yes ☐ No ☒ If Yes, what is the water permit number? WAR/WGN N/A

2. What is the land use consent (bore permit) number for the bore/well where water will be taken from?

Refer to GWRC Form 6b

WGN/WAR within Volume 1.

Note: All bores/wells are required to have a land use consent (bore permit). If a permit for your bore/well has not been obtained you will need to apply for a land use consent (bore permit) as well. Use application form 9.

3. Locality map

Show the location of your proposed abstraction point on an appropriately scaled aerial map/plan. Please show 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.

4. What is the bore/well number for the bore/well where ground water will be taken from?

Refer to response to Q6 below (eg, S26/0727)

5. What will be the maximum rate at which water is taken?

Refer to response to Q7 below.

_____ litres per second

_____ hours per day

_____ m^3 per year

Note: (1) For **water permits for irrigation use**, the annual quantity will be allocated based on the outcome of an irrigation allocation report. Please include this report with your application. Greater Wellington can provide you with a SPASMO-IR allocation assessment report. Please contact us if you would like us to provide you with an allocation assessment report.

(2) If you require more water than the allocation report suggests you will need to provide adequate justification for the amount of groundwater required in question 7 below.

(3) A year is measured from 1 July to 30 June inclusive.

6. What will groundwater be used for? [Tick the appropriate box(es)]

☐ Industry State type of industry and major use of water: _____

☐ Community State no. of households or population: _____

For the construction of the MacKays to Peka Peka Expressway. Where possible, the reuse of water from sediment retention devices will be used in construction operations. However, to ensure adequate supply of water up to 9 deep water bores will be positioned along the proposed Expressway route. Potential positions for the bores will be at locations which minimise haulage and are shown in the drawing CV-CM-400 series (Construction, Construction Office and Yard Plans, Volume 5).

☒ Other State use: _____

☐ Irrigation State method of irrigation ☐ spray ☐ trickle ☐ border-dyke ☐ other

If spray irrigation, what method of spray irrigation will be used?

☐ centre pivot
☐ travelling irrigator
☐ K line or Bosch sprinklers
☐ other

What is the total area will you be irrigating?

☐ Crop(s) _____ ha Crop type: N/A
☐ Pasture _____ ha
☐ Horticulture _____ ha Horticulture type: N/A
☐ Other _____ ha Please specify: _____

(Please show clearly the area to be irrigated on a scaled aerial map.)

Please describe the soil type and characteristics for the area to be irrigated below:

Water is required for construction activities. Refer to Technical Reports 4 and 21, Volume 3.

7. Please justify the amount of groundwater requested in question 5 above (eg, please provide any usage records/calculations/design relating to the proposed groundwater take). Use a separate sheet if required.

During drier months and at peak construction periods in each bore locations, maximum supply of water will need to be 800cum per day.

Refer to Technical Report 21, Volume 3, for further details on groundwater take.

Q8 and 9 below are N/A. Refer to Technical Report 21, Volume 3 and Appendix I of the CEMP, Volume 4, for further details.

8. Is there a water meter on the bore/well? Yes ☐ No ☐

If Yes, what is the water meter serial number and brand type?

If No, when do you plan to install a water meter? _____

Note: The Resource Management (Measurement and Reporting of Water Takes) Regulations 2010 require most water takes of 5 litres per second or more to install a water meter

9. What is the pump make, type and model? _____

What is the maximum capacity of your pump? _____ litres per second

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

Where your take 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. This will be the case for most new applications. As part of this assessment an aquifer test (pump test) will be required to be done on your bore/well and analysis presented in order to answer the questions detailed below. (Further information on aquifer (pump) tests can be gained from our Environmental Monitoring and Investigations department)

1. Has an aquifer test (pump test) been carried out on your bore/well? Yes ☒ No ☐

(Please provide a copy of your aquifer test or summary details of your aquifer test in the space provided below eg, length of test, pumping rate, drawdown in pumped bore, drawdown in monitored bores, assessment of aquifer transmissivity and storage co-efficient)

Refer to Part G, Chapter 25 of the AEE Report, Volume 2 and Technical Report 21, Volume 3.

For Q2 below refer to drawing CT-GW-100 - 111 series (Management Plan Appendices, Appendix I, Volume 5)

2. Please show any of the following on your scaled aerial map

(1) Other bores/wells

(2) All springs and surface waterbodies (including wetlands)

(3) Any septic tanks and/or other waste disposal areas

3. What are the anticipated effects of your proposed groundwater take on nearby bores/wells?

Refer to Part G, Chapter 25 of the AEE Report, Volume 2 and Technical Report 21, Volume 3.

4. What are the anticipated effects of your proposed groundwater take on any springs or surface water bodies (including wetlands)?

As above and refer to Technical Report 26, Volume 3

5. **What are the anticipated effects of your proposed groundwater take on features within the surrounding environment (eg, stands of native vegetation, waste disposal areas etc.)?**

As above.

6. **Is your proposed groundwater take within 1 kilometre of any coastline?** ☐ Yes ☒ No

If Yes, what are the anticipated effects of your proposed groundwater take on the risk of saltwater intrusion?

N/A

7. **Are there any alternative water sources available to you?** Yes ☐ No ☒

If yes, please explain why you have chosen this option and not alternative options:

Refer to Part E, Chapter 9 of the AEE for the consideration of alternatives.

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?**

(This may include, but is not limited to, what abstraction data you plan to record, when information will be submitted to Greater Wellington, any groundwater levels that may be taken in your or any other bore/well, any monitoring of surface water bodies including wetlands that may be undertaken)

Refer to Part H of the AEE Report, Volume 2

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3a Discharge permit application - general 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, Industry, solid agrichemical (1080), cleanfill, landfill, winery wastewater, composting animal wastes, breweries, oil etc:

Discharge of contaminants to land for potential migration of contaminants across property boundaries – 55 Rata Road; Kāpiti Road Intersection and 124-154 Te Moana Road.

2. Provide a detailed description of contaminant characteristics, physical and chemical composition, and whether it is a classified hazardous substance:

Refer to Chapters 6 and 7 of Technical Report 23 - Assessment of Land and Groundwater Contamination Effects, Volume 3.

3. Is the waste treated before discharge?

Yes ☐ No ☒ If Yes, describe treatment:

Any cut from the sites will be disposed at a licensed landfill - no specific treatment is proposed.

4. Describe discharge method, period, volume and rate of discharge – include calculations:

Refer to Chapters 6 and 7 of Technical Report 23, Volume 3 - Assessment of Land and Groundwater Contamination Effects.

For question 5 refer to Appendix K of the CEMP, Volume 4 - Contaminated Soils and Groundwater Management Plan.

5. 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):**

   Refer to Technical Report 35, Volume 3 - Assessment of Ground Settlement Effects.

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

   Refer to Technical Report 23, Volume 3 - Assessment of Land and Groundwater Contamination Effects.

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

   Refer to Chapters 6 and 7 of Technical Report 23, Volume 3 - Land and Groundwater Contamination Effects.

4. **How far is the nearest surface water to the discharge area(s) and in what direction (eg, 50m NE)?**

   Kapiti Road intersection - not applicable.

   124-154 Te Moana Road - within the site and adjacent to the Waimeha Stream.

5. **Are there any bores in vicinity (including neighbouring properties) and what are they used for?**

   Yes ☐ No ☒ If Yes, show them on the locality map and describe their use below:

6. **Are there any sensitive environments close to the discharge area? eg, wetlands, recreational areas**

   Yes ☐ No ☒ If Yes, show them on the locality map and describe them below:

7. **What effects will your discharge have on the sensitive environments identified above?**

   Not applicable.

8. Why did you choose the proposed method of treatment and disposal, including the proposed discharge location?

Refer to Chapters 6 and 7 of Technical Report 23, Volume 3 - Land and Groundwater Contamination Effects.

9. What alternative methods and locations have you considered?

Refer to Part E, Chapter 9 of the AEE Report, Volume 2 and Chapters 6 and 7 of Technical Report 23, Volume 3.

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.)

Refer to Part H of the AEE Report, Volume 2; Appendix K of the CEMP, Volume 4 - Contaminated Soils and Groundwater Management Plan; and Appendix R of the CEMP, Volume 4 - Environmental Monitoring Requirements.

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).

Refer to Appendix K of the CEMP, Volume 4 - Contaminated Soils and Groundwater Management Plan.

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3a Discharge permit application - general 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, Industry, solid agrichemical (1080), cleanfill, landfill, winery wastewater, composting animal wastes, breweries, oil etc:

Discharge of treated cement contaminated water to land where it may enter water - Otaihanga Construction Yard.

2. Provide a detailed description of contaminant characteristics, physical and chemical composition, and whether it is a classified hazardous substance:

Water used in the construction yard for purposes of concrete wash down.

3. Is the waste treated before discharge?

Yes ☒ No ☐ If Yes, describe treatment:

Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

4. Describe discharge method, period, volume and rate of discharge – include calculations:

Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

For question 5 refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

5. 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):**

   Refer to Technical Report 35, Volume 3 - Assessment of Ground Settlement Effects.

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

   Refer to Technical Report 23, Volume 3 - Assessment of Land and Groundwater Contamination Effects.

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

   Refer to Technical Report 23, Volume 3 - Assessment of Land and Groundwater Contamination Effects.

4. **How far is the nearest surface water to the discharge area(s) and in what direction (eg, 50m NE)?**

   The nearest watercouse is the Landfill Drain which is situated adjacent to Project Construction Yard.

5. **Are there any bores in vicinity (including neighbouring properties) and what are they used for?**

   Yes ☐ No ☒ If Yes, show them on the locality map and describe their use below:

6. **Are there any sensitive environments close to the discharge area? eg, wetlands, recreational areas**

   Yes ☒ No ☐ If Yes, show them on the locality map and describe them below:

   Otaihanga Mountain Bike Park.

   Otaihanga Wetlands

   Refer to to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

7. **What effects will your discharge have on the sensitive environments identified above?**

   Negligible given the mitigation measures outlined in Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control.

8. Why did you choose the proposed method of treatment and disposal, including the proposed discharge location?

The location is within the main construction yard for the Project and is therefore close to road construction activities and haul routes.

9. What alternative methods and locations have you considered?

Off-site options to avoid the disharge of cement wash in this location.

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.)

Refer to to Appendix H of the CEMP, Voume 4 - Erosion and Sediment Control Plan and Appendix R of the CEMP, Volume 4 - Environmental Monitoring Requirements.

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).

Refer to to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

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4a Discharge permit application – general discharge to water

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

This application form should be used for all discharges to water, including discharge to coastal water below mean high water springs and within the outer limits of the territorial sea.

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

1. What is/are the contaminant(s) of concern in the discharge?

(A contaminant is any substance which is likely to change the water into which it is discharged in any way. Water can also be a contaminant)

Sediment, chemical flocculant and cement in treated stormwater to surface water associated with the construction of the MacKays to Peka Peka Expressway.

The discharge originates from an area of bulk earthworks greater than 0.3 ha.

2. What is the source of the contaminant and/or process that results in the discharge? (eg, municipal wastewater, industry, water treatment, rural activity/agricultural production - cows, pigs, poultry, contaminated stormwater, other) Note: If the source is from bulk earthworks please fill out Form 3b.

Bulk earthworks, the construction of structures (bridges and culverts) and the associated sediment and stormwater treatment required for the construction of the MacKays to Peka Peka Expressway.

3. If from municipal wastewater what is the current and future size of the population the treatment plant will serve, and what is the proposed operational life of the treatment plant and associated pipework?

Not applicable

4 Is the contaminant treated in any way before being discharged? **Yes** ☒ **No** ☐

5. Name the treatment system and describe the treatment process (include the design specifications such as the capacity of the system):

Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

6. If sludge/solid waste is generated as part of the treatment process, please state what happens to this sludge. (Note: an additional consent will be required for the discharge of sludge to land).

Not applicable

7. Describe the contaminant and expected quality of the discharge after treatment but before it enters its receiving environment:

Please provide the results from any water quality testing of the discharge. If you do not have this information, you will need to test your discharge. Indicate which contaminants have been identified in the discharge by ticking the box(es). Explain how the samples were taken (eg, spot sample or composite sample) and attach the sampling results (laboratory analytical certificates) to this application.

- ☐ Temperature °C
- ☐ pH
- ☐ Suspended solids g/m³
- ☐ BOD_5 g/m³
- ☐ Faecal coliforms cfu/100 mL
- ☐ Heavy metals g/m³
- ☐ Toxic substances (eg, PAHs, phenols) g/m³
- ☐ Dissolved and total nutrients g/m³
- ☐ Ammonia g/m³:
- ☐ Oil/grease g/m³

Date(s) sample taken: _____ Name of sampler: _____

Location(s) sample taken: _____

Date(s) of analysis: _____ Analysis conducted by: _____

Indicate the sampling area(s) on the locality map (question 20).

Where appropriate describe the following:

Physical characteristics of the discharge (such as temperature, suspended solids, turbidity)

For question 7 refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

Inorganic chemical characteristics of the discharge (such as pH, free ammonia, organic nitrogen, total kjeldahl nitrogen, nitrites, nitrates, inorganic phosphorus, sulphate, metals)

Organic chemical characteristics of the discharge (such as BOD_5, VOC's)

Biological characteristics of the discharge (such as faecal coliforms, specific micro-organisms, toxicity)

8. **What is the name of the waterbody into which the discharge will be made (eg, name of stream, river, lake, bay, harbour, catchment, etc)?**

Whareroa Stream, Wharemauku Stream, Waikanae River, Waimeha Stream, Ngarara Stream

9. **Describe the present state of the waterbody at the proposed location of the discharge.** Parameters to include in your description are flow information, water colour/clarity, width of channel, average depth, land use surrounding the waterbody, bed material (eg, rocky, silty, etc), bank material, streamside vegetation, erosion, fish life, invertebrate life, aquatic plants.

Refer to Technical Report 24 - Baseline Water and Sediment Quality Investigation Report, Volume 3

Greater Wellington's Environmental Monitoring and Investigations department may be able to assist you with flow or water quality data if you have no information. Please note some applications may require a professional ecological assessment.

10. **What is the quality of the receiving waterbody before the discharge?** Provide sample results and interpretation of these results (eg, against guideline values).

Refer to Technical Report 24 - Baseline Water and Sediment Quality Investigation Report, Volume 3

11. **Provide details of the expected quality of the receiving waters (AFTER the point of discharge, at a point after reasonable mixing).** Provide sample results for existing discharges or provide anticipated results.

Refer to Technical Report 24 - Baseline Water and Sediment Quality Investigation Report, Volume 3

Indicate which contaminants have been identified in the receiving waters by ticking the box(es). Attach the sampling results (laboratory analytical certificates) to this application

- ☐ Temperature °C
- ☐ pH
- ☐ Suspended solids g/m³
- ☐ BOD_5 g/m³
- ☐ Faecal coliforms cfu/100 mL
- ☐ Heavy metals
- ☐ Toxic substances
- ☐ Nitrates
- ☐ Ammonia and dissolved reactive phosphorus
- ☐ Dissolved Oxygen g/m³

Date(s) sample taken: _____ Name of sampler: _____

Location(s) sample taken: _____

Date(s) of analysis: _____ Analysis conducted by: _____

Please indicate the sampling locations (i.e. upstream, downstream, point of discharge) on the locality map (question 20)

12. **Describe the method of discharge.** Describe what measures will be put in place to prevent erosion or scour at the point of discharge.

For questions 12 to 17 refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

13. **Describe the discharge outlet structure (eg, 300mm pipe, multi-port diffuser, gravel trench etc.)**

14. **Is the discharge continuous ☐ or intermittent ☐ ?**

15. **What will be the maximum discharging period?**

_____ hours per day

_____ days per week

_____ weeks per year

16. **Describe the expected volume and frequency of the discharge?**

Maximum flow rate _____ litres per second

Maximum daily discharge _____ cubic metres per day

Average Dry Weather Flow _____

Peak Wet Weather Flow _____

Max. Volume per annum _____

17. **Does the discharge also involve:**

Outlet structure?	Yes ☐	No ☐
Diversion?	Yes ☐	No ☐
Discharge to air (odour)?	Yes ☐	No ☐
Discharge to land?	Yes ☐	No ☐

If you answered yes to any of 17 above, a separate consent application may be required. Give details of these other discharges below unless separate consent applications forms have been completed (in order to assess if further consents are required):

18. **Is there any odour associated with the discharge?**

No

19. **Give details of other discharge(s) occuring to the waterbody (eg, wet weather overflows).** Describe the location, activity and source of these discharge(s) and any other details you are able to provide:

Refer to Hydrology and Stormwater drawings CV-SW- 104 to 132 (Technical Report Appendices, Report 22, Volume 5).

For question 20 refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan

and drawings CV-CM- 200 to 231 (Management Plan Appendices, Appendix H, Volume 5).

20. Locality map and system design

Show the location of your proposed discharge. The sketch or plan should include, but not be limited to discharge point(s), sampling locations, location of neighbouring properties, roads, waterbodies (including streams, wetlands and drains), and other significant landmarks. Alternatively you may wish to attach a plan/aerial photograph showing the above information.

Note: Remember to indicate where north is and relevant location information eg, distance and direction to nearest town/city. Name the waterbody(ies) shown on the map.

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. Within a reasonable distance downstream or in the vicinity of the discharge are there any:

(1)	Obvious indications of the presence of biota (eg, birds/nests, fish, eels, insect life, aquatic plants)?	Yes ☒	No ☐
(2)	Areas where food is gathered (eg, watercress, fish, kaimoana, blackberries)?	Yes ☒	No ☐
(3)	Water abstractions?	Yes ☒	No ☐
(4)	Wetlands (eg, swamp areas)?	Yes ☒	No ☐
(5)	Recreational activities carried out (eg, swimming, fishing, canoeing)?	Yes ☒	No ☐
(6)	Areas of particular aesthetic or scientific value (eg, archaeological sites)?	Yes ☒	No ☐
(7)	Areas or aspects of significance to iwi that you are aware of?	Yes ☒	No ☐

2. If you have answered yes to any of the above, please provide further information, including the distance of these activities from your proposed discharge point(s) and a description of what effects the discharge may have on them.

Refer to Part G of the AEE Report, Volume 2.

3. What steps do you propose to take to mitigate these effects?

Refer to Part H of the AEE Report, Volume 2.

[Continue on a separate page if necessary]

4. What is the management purpose of the receiving waters as described in the Regional Freshwater Plan or Regional Coastal Plan?

Refer to Technical Report 24, Volume 3 - Baseline Water and Sediment Quality Investigation Report.

5. What do you consider are the likely effects of the discharge upon the receiving waters, particularly in relation to the management purpose in question 4 above?

Refer to Technical Report 24, Volume 3 - Baseline Water and Sediment Quality Investigation Report.

6. **If there any other discharges within the same catchment, what is the combined effect of these discharges (including the proposed discharge) on the receiving environment?**

Refer to Technical Report 24 - Baseline Water and Sediment Quality Investigation Report, Volume 3.

7. **What is the length and width of the proposed zone of non-compliance (if any) to allow for reasonable mixing of the discharge in the receiving waters? How were the dimensions of this zone determined and what degree of dilution (eg, 100:1) is provided by the end of the zone?**
Note: In some waterbodies it may not be reasonable to have a non-compliance zone.

Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan of the CEMP and drawings CV-CM- 200 to 231 (Management Plan Appendices, Appendix H, Volume 5).

8. **Describe any noticeable change in the colour/clarity of the receiving waters that may result from the discharge:**

Refer to Technical Report 24 - Baseline Water and Sediment Quality Investigation Report, Volume 3.

9. **What environmental effects were considered when choosing the proposed method of disposal and location (eg, water table, dilution rates/mixing potential, proximity to waterbody)?**

Refer to Technical Report 24 - Baseline Water and Sediment Quality Investigation Report, Volume 3.

10. **What alternative methods of treatment and disposal/discharge locations were considered?**

Refer to Technical Report 22, Volume 3 - Assessment of Hydrology and Stormwater Effects and Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

11. **Were these alternatives discounted?**

Refer to Technical Report 22, Volume 3 - Assessment of Hydrology and Stormwater Effects and Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

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?** (eg, discharge monitoring, receiving water monitoring, ecological surveys, toxicity tests). Include details on what is to be monitored, when, how, and why.

   Refer to Part H of the AEE Report, Volume 2 - Management of Environmental Effects and Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

2. **What contingency measures are proposed to deal with any system malfunction or failures so as to prevent unauthorised, uncontrolled, or only partially treated discharge to the environment?**

   Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

3. **Describe how the equipment controlling the discharge to prevent equipment failure will be maintained and operated** (eg, measures to exclude stormwater from the system, desludging, equipment maintenance).

   Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

4. **What will be done to minimise and remediate any effects in the event of equipment failure?**

   Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

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4a Discharge permit application – general discharge to water

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

This application form should be used for all discharges to water, including discharge to coastal water below mean high water springs and within the outer limits of the territorial sea.

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

1. What is/are the contaminant(s) of concern in the discharge?

(A contaminant is any substance which is likely to change the water into which it is discharged in any way. Water can also be a contaminant)

Discharge of treated cement contaminated water to water - Otaihanga Construction Yard.

2. What is the source of the contaminant and/or process that results in the discharge? (eg, municipal wastewater, industry, water treatment, rural activity/agricultural production - cows, pigs, poultry, contaminated stormwater, other) Note: If the source is from bulk earthworks please fill out Form 3b.

Water discharged from the construction yard as a result of concrete wash down.

3. If from municipal wastewater what is the current and future size of the population the treatment plant will serve, and what is the proposed operational life of the treatment plant and associated pipework?

Not applicable.

4 Is the contaminant treated in any way before being discharged? **Yes** ☒ **No** ☐

5. Name the treatment system and describe the treatment process (include the design specifications such as the capacity of the system):

Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

6. If sludge/solid waste is generated as part of the treatment process, please state what happens to this sludge. (Note: an additional consent will be required for the discharge of sludge to land).

Not applicable.

7. Describe the contaminant and expected quality of the discharge after treatment but before it enters its receiving environment:

Please provide the results from any water quality testing of the discharge. If you do not have this information, you will need to test your discharge. Indicate which contaminants have been identified in the discharge by ticking the box(es). Explain how the samples were taken (eg, spot sample or composite sample) and attach the sampling results (laboratory analytical certificates) to this application.

☐ Temperature °C
☐ pH
☐ Suspended solids g/m³
☐ BOD_5 g/m³
☐ Faecal coliforms cfu/100 mL
☐ Heavy metals g/m³
☐ Toxic substances (eg, PAHs, phenols) g/m³
☐ Dissolved and total nutrients g/m³
☐ Ammonia g/m³:
☐ Oil/grease g/m³

Date(s) sample taken: _____ Name of sampler: _____

Location(s) sample taken: _____

Date(s) of analysis: _____ Analysis conducted by: _____

Indicate the sampling area(s) on the locality map (question 20).

Where appropriate describe the following:

Physical characteristics of the discharge (such as temperature, suspended solids, turbidity)

For question 7, refer to Technical Report 24, Volume 3 - Baseline Water and Sediment Quality Investigation Report and Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

Inorganic chemical characteristics of the discharge (such as pH, free ammonia, organic nitrogen, total kjeldahl nitrogen, nitrites, nitrates, inorganic phosphorus, sulphate, metals)

Organic chemical characteristics of the discharge (such as BOD_5, VOC's)

Biological characteristics of the discharge (such as faecal coliforms, specific micro-organisms, toxicity)

8. **What is the name of the waterbody into which the discharge will be made (eg, name of stream, river, lake, bay, harbour, catchment, etc)?**

The nearest watercourse is the Landfill Drain which is situated adjacent to the Project Construction Yard.

9. **Describe the present state of the waterbody at the proposed location of the discharge.** Parameters to include in your description are flow information, water colour/clarity, width of channel, average depth, land use surrounding the waterbody, bed material (eg, rocky, silty, etc), bank material, streamside vegetation, erosion, fish life, invertebrate life, aquatic plants.

Refer to Technical Report 24, Volume 3 - Baseline Water and Sediment Quality Investigation.

Greater Wellington's Environmental Monitoring and Investigations department may be able to assist you with flow or water quality data if you have no information. Please note some applications may require a professional ecological assessment.

10. **What is the quality of the receiving waterbody before the discharge?** Provide sample results and interpretation of these results (eg, against guideline values).

Refer to Technical Report 24, Volume 3 - Baseline Water and Sediment Quality Investigation Report.

11. **Provide details of the expected quality of the receiving waters (AFTER the point of discharge, at a point after reasonable mixing).** Provide sample results for existing discharges or provide anticipated results.

Refer to Technical Report 24, Volume 3 - Baseline Water and Sediment Quality Investigation Report.

Indicate which contaminants have been identified in the receiving waters by ticking the box(es). Attach the sampling results (laboratory analytical certificates) to this application

- ☐ Temperature °C
- ☐ pH
- ☐ Suspended solids g/m³
- ☐ BOD_5 g/m³
- ☐ Faecal coliforms cfu/100 mL
- ☐ Heavy metals
- ☐ Toxic substances
- ☐ Nitrates
- ☐ Ammonia and dissolved reactive phosphorus
- ☐ Dissolved Oxygen g/m³

Date(s) sample taken: _____ Name of sampler: _____

Location(s) sample taken: _____

Date(s) of analysis: _____ Analysis conducted by: _____

Please indicate the sampling locations (i.e. upstream, downstream, point of discharge) on the locality map (question 20)

12. **Describe the method of discharge.** Describe what measures will be put in place to prevent erosion or scour at the point of discharge.

For questions 12 to 17 refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

13. **Describe the discharge outlet structure (eg, 300mm pipe, multi-port diffuser, gravel trench etc.)**

14. **Is the discharge continuous ☐ or intermittent ☐ ?**

15. **What will be the maximum discharging period?**

_____ hours per day

_____ days per week

_____ weeks per year

16. **Describe the expected volume and frequency of the discharge?**

Maximum flow rate _____ litres per second

Maximum daily discharge _____ cubic metres per day

Average Dry Weather Flow _____

Peak Wet Weather Flow _____

Max. Volume per annum _____

17. **Does the discharge also involve:**

Outlet structure?	Yes ☐	No ☐
Diversion?	Yes ☐	No ☐
Discharge to air (odour)?	Yes ☐	No ☐
Discharge to land?	Yes ☐	No ☐

If you answered yes to any of 17 above, a separate consent application may be required. Give details of these other discharges below unless separate consent applications forms have been completed (in order to assess if further consents are required):

18. **Is there any odour associated with the discharge?**

No.

19. **Give details of other discharge(s) occuring to the waterbody (eg, wet weather overflows).** Describe the location, activity and source of these discharge(s) and any other details you are able to provide:

Not applicable.

For question 20 refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

20. Locality map and system design

Show the location of your proposed discharge. The sketch or plan should include, but not be limited to discharge point(s), sampling locations, location of neighbouring properties, roads, waterbodies (including streams, wetlands and drains), and other significant landmarks. Alternatively you may wish to attach a plan/aerial photograph showing the above information.

Note: Remember to indicate where north is and relevant location information eg, distance and direction to nearest town/city. Name the waterbody(ies) shown on the map.

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. Within a reasonable distance downstream or in the vicinity of the discharge are there any:

(1)	Obvious indications of the presence of biota (eg, birds/nests, fish, eels, insect life, aquatic plants)?	Yes ☐	No ☒
(2)	Areas where food is gathered (eg, watercress, fish, kaimoana, blackberries)?	Yes ☐	No ☒
(3)	Water abstractions?	Yes ☐	No ☒
(4)	Wetlands (eg, swamp areas)?	Yes ☒	No ☐
(5)	Recreational activities carried out (eg, swimming, fishing, canoeing)?	Yes ☒	No ☐
(6)	Areas of particular aesthetic or scientific value (eg, archaeological sites)?	Yes ☐	No ☒
(7)	Areas or aspects of significance to iwi that you are aware of?	Yes ☐	No ☒

2. If you have answered yes to any of the above, please provide further information, including the distance of these activities from your proposed discharge point(s) and a description of what effects the discharge may have on them.

Otaihanga Mountain Bike Park and Otaihanga Wetlands - the effect of the discharge on these areas will be negligible.

Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan for locational detail.

3. What steps do you propose to take to mitigate these effects?

Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

[Continue on a separate page if necessary]

4. What is the management purpose of the receiving waters as described in the Regional Freshwater Plan or Regional Coastal Plan?

Drainage.

5. What do you consider are the likely effects of the discharge upon the receiving waters, particularly in relation to the management purpose in question 4 above?

Negligible given the mitigation measures outlined in Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan and illustrated on Construction Yard Plan CV-CM-406 (Construction, Volume 5).

6. **If there any other discharges within the same catchment, what is the combined effect of these discharges (including the proposed discharge) on the receiving environment?**

Refer to Technical Report 24, Volume 3 - Baseline Water and Sediment Quality Investigation Report.

7. **What is the length and width of the proposed zone of non-compliance (if any) to allow for reasonable mixing of the discharge in the receiving waters? How were the dimensions of this zone determined and what degree of dilution (eg, 100:1) is provided by the end of the zone?**
Note: In some waterbodies it may not be reasonable to have a non-compliance zone.

Refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

8. **Describe any noticeable change in the colour/clarity of the receiving waters that may result from the discharge:**

Refer to Technical Report 24, Volume 3 - Baseline Water and Sediment Quality Investigation Report.

9. **What environmental effects were considered when choosing the proposed method of disposal and location (eg, water table, dilution rates/mixing potential, proximity to waterbody)?**

Proximity to waterbody; dilution rates/mixing potential.

10. **What alternative methods of treatment and disposal/discharge locations were considered?**

Off-site options to avoid the disharge of cement wash in this location.

11. **Were these alternatives discounted?**

Yes, as the location is within the main construction yard for the Project and is therefore close to road construction activities and haul routes.

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?** (eg, discharge monitoring, receiving water monitoring, ecological surveys, toxicity tests). Include details on what is to be monitored, when, how, and why.

   For questions 1 to 4 refer to Appendix H of the CEMP, Volume 4 - Erosion and Sediment Control Plan.

2. **What contingency measures are proposed to deal with any system malfunction or failures so as to prevent unauthorised, uncontrolled, or only partially treated discharge to the environment?**

3. **Describe how the equipment controlling the discharge to prevent equipment failure will be maintained and operated** (eg, measures to exclude stormwater from the system, desludging, equipment maintenance).

4. **What will be done to minimise and remediate any effects in the event of equipment failure?**

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6a Land use consent application – general works in the bed of a watercourse or lake

Please answer all questions fully. Officers from the 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

This application form should be used for any general works in the bed of a watercourse or lake. Please note if you are constructing a bridge, culvert or pipe please fill in application form 6c, or if you are constructing erosion protection structures please fill in application form 6d.

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

1. Is this application for a renewal of an existing resource consent?

☐ Yes ☒ No If Yes, what is the consent number? WAR/WGN N/A

2. What do you propose to do and why?

Refer to Chapters 7 and 8 of the AEE Report, Volume 2, for a description of the proposed activity.

Refer to Chapter 1 and 2 of the AEE Report, Volume 2, for the reasons why the activity is proposed.

Land use consent is required to place structures (bridges, culverts, rip rap, stormwater outlets) and remove structures within the bed of watercourses and wetlands.

This consent application relates to any associated disturbance of and deposition of material on the bed of watercourses and any reclamation and diversion associated with this, in the vicinity of the MacKays to Peka Peka Expressway.

[Continue on a separate page if necessary]

3. Are you:

(1)	Erecting, reconstructing, placing, altering, extending, removing or demolishing any structure?	Yes ☒	No ☐
(2)	Excavating, drilling, tunnelling or disturbing the bed (including gravel extraction)?	Yes ☒	No ☐
(3)	Depositing any substance?	Yes ☒	No ☐
(4)	Reclaiming or draining the bed?	Yes ☒	No ☐
(5)	Introducing or planting any plants?	Yes ☒	No ☐
(6)	Disturbing, removing, damaging or destroying any plants, or the habitats or any plants or animals?	Yes ☒	No ☐
(7)	Crossing a watercourse?	Yes ☒	No ☐

Part A: general (continued)

4. Name the watercourse where the works will occur?

(If the watercourse is an unnamed tributary then what is the name of the stream/river it flows into?)

Refer to Part D, Chapter 7 and Part G, Chapter 24 of the AEE Report, Volume 2. For further detail refer to Technical Report 22, Volume 3 and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

5. Describe the current nature of the watercourse at the proposed site for the works?

Nature of channel i.e. meandering or straight:

Water colour/clarity:

Average flow (m^3/sec):

Bed material (e.g. rocky, silty):

Bank material:

Vegetation:

Fish and invertebrate life:

Other:

For Question 5 above refer to Part G, Chapter 21, 22, 24 and 28 of the AEE Report, Volume 2.

6. Construction methodology

Please provide a step by step construction methodology for the works, including any temporary diversion of water required to undertake the works.

Refer to Part D, Chapter 8 of the AEE Report, Volume 2, Technical Report 4, Volume 3 and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

In regard to Question 7 below, refer to Hydrology and Stormwater drawings, CV-SW-010 to 394 Technical Report Appendices, Report 22, Appendix 22.A, Volume 5; and the Erosion and Control drawings, CV-CM-200 to 231 and 234, Management Plan Appendices, Appendix H, Appendix H.B, Volume 5.

[Continue on a separate page if necessary]

Part A: general (continued)

7. Locality ma

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 A: general (continued)

8. Site photographs

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 upstream 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 e.g. 10m downstream, from the proposed site, vegetation type typical of the watercourse. Please also provide a scale e.g. have a person in the photograph.

Refer to Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

9. Who will be undertaking the work?

Refer to the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

10. What are the proposed hours of operation/construction?

Proposed in the CEMP, Volume 4.

11. What is the proposed commencement date of the work?

Proposed to commence during the third quarter, 2013 (dependent on all required land and approvals being secured).

12. What is the proposed completion date?

Proposed to complete during the third quarter, 2017.

13. Have any alternatives been considered when planning the proposal? ☒ **Yes** ☐ **No**

Please explain:

Refer to Part E, Chapter 9 of the AEE Report, Volume 2, for the consideration of alternatives.

14. As part of your proposal will you be undertaking any of the following activities?

☒ Diversion of water

☒ Bulk earthworks adjacent to any watercourse

Note: If you have ticked any of the above boxes you may be required to fill out an additional form to be submitted as part of your application. Please contact the Environment Helpdesk at Greater Wellington if you are unsure which forms you may require.

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

If your proposed activity 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.

Water quality

1. 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 runoff:

Refer to Part G, Chapter 21, 22, 23, 24 and 28 of the AEE Report, Volume 2; the CEMP, Volume 4; the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4); and the Ecological and Landscape Management Plans (being Appendix M and T of the CEMP, Volume 4, respectively).

Building debris:

As above

Machinery fuels:

As above)

Concrete:

As above

Other objects or chemicals entering the watercourse:

As above

[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 form Greater Wellington. To get a booklet sent out to you please call the Environment Helpdesk on 04 830 4255.

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

Machinery

2. 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 near or in the waterway?

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:

Machinery on the banks of a watercourse:

Refer to the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4)

Machinery in the bed of a watercourse:

As above

Machinery fuels and/or chemicals:

As above

[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:

Refer to Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4.

Refer to Part H of the AEE report (Volume 2) for proposed mitigation.

Alterations to water flow:

As above

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

Physical barriers to fish passage:

As above

Timing of works that may affect fish spawning/migration:

As above

[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:

Refer to Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

Refer to Part H of the AEE report (Volume 2) for proposed mitigation.

Change in water flow velocities and water flow paths:

As above

Removal of vegetation associated with the works:

As above

[Continue on a separate page if necessary]

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

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:

Other people who may be affected by the works:

Refer to Part F, Chapter 10 of the AEE Report, Volume 2.

Refer to Part H of the AEE Report, Volume 2, for proposed mitigation.

Upstream ponding or flooding:

As above

Cultural, heritage and archaeological values:

As above

Recreational users of the water course

As above

[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:

Refer to Part G, Chapters 17,21,22, 23,24 and 28 of the AEE Report, Volume 2.

Refer to Part H of the AEE Report, Volume 2, for proposed environmental management and monitoring.

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

Other effects:

As above

[Continue on a separate page if necessary]

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?** (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.

   Refer to the CEMP, Volume 4; the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4); and the draft Ecological and Landscape Management Plans (being Appendix M and T of the CEMP, Volume 4, respectively).

   Refer to Part H of the AEE report (Volume 2) for environmental management and monitoring.

   [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?**

   Refer to the CEMP, Volume 4.

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6b Land use consent application to construct or alter a bore[1]

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 activity

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

Construct a new ☒ bore ☐ well ☐ sand trap/spear ☐ Other, specify _____

Alter an existing ☒ bore ☐ well ☐ sand trap/spear ☐ Other, specify _____

Is this a replacement bore? No ☒ Yes ☐ - what is happening to the old bore? Explain below

Land use consent to construct bore holes for groundwater extraction required for construction activities and for the formation of holes for bridge piles where this may intercept groundwater (as required for the construction of the MacKays to Peka Peka Expressway).

2. Proposed method of construction: ☐ Cable tool drilling ☐ Rotary/Percussion ☐ Jetting

☒ Other, specify For all questions below, refer to Ground Water (level) Management Plan (Appendix I of the CEMP, Volume 4 for Question 2 and 3 and 4). Refer to Part G, Chapter 25 of the AEE Report, Volume 2 and Technical Report 21, Volume 3.

3. What is your proposed date to start work? _____/_____/_____

Name and address of driller/company: _____

Phone number of driller/company: _____

4. Please provide the following information about the proposed bore or existing bore to be altered:

Diameter: _____ mm

Depth: _____ m

Screen length: _____ m

5. Will the bore be constructed in a confined aquifer? Yes ☐ No ☐

If Yes A) Is the confined aquifer artesian (i.e. groundwater that will flow upwards out of a well without the need for pumping) Yes ☐ No ☐

B) Will you install a double casing on the bore Yes ☐ No ☐

Depth of casing: _____ m Diameter of casing: _____ mm

6. Are you the owner of the land on which the bore is to be constructed? Yes ☒ No ☐

If No, complete the written approval section on Form 1.

[1] A bore is defined in the Regional Freshwater Plan for the Wellington Region as "… any hole regardless of the method of formation that has been constructed to provide access to groundwater, or which intercepts groundwater in an aquifer, excluding geotechnical bores other than in the Lower Hutt Groundwater Zone …".

7. What is the proposed use of the bore?

☐ Domestic ☐ Stock ☐ Irrigation ☐ Public supply ☐ Water quality monitoring

☐ Industrial ☐ Geotechnical investigation (Lower Hutt aquifer only)

☒ Other, specify _____

8. If you intend to take water from the bore, what is the quantity of water required?

Note: It is important you be as specific as possible

_____ litres per second

_____ hours per day

_____ days per year

Rule 7 of the Regional Freshwater Plan for the Wellington Region allows for up to 20,000 litres per day to be taken without a water permit subject to four conditions. If you wish to take more than 20,000 litres per day from your bore (other than for an individual's reasonable domestic needs, stock watering or fire fighting) you will need to apply for a water permit to take groundwater.

The granting of this consent to construct or alter a bore does not guarantee the granting of a Water Permit to take water from the bore.

9. What is your proposed method of pumping water from the bore?

☐ Surface pump (suction lift) ☐ Submersible pump set at a depth of _____ m

10. Is this the only abstraction point (eg, bore or surface water take) on this property title?

Yes ☐ No ☐ - Identify other points of abstraction on the map in Question 12 below.

11. Please describe land use within 50 metres of the proposed bore site, eg, dairy shed, grazing, lawn, noting distances to any septic tanks, waste disposal sites, other bores, wetlands and springs/streams/rivers.

Refer to Technical Report 21, Volume 3.

In regard to Question 12 below, the potential positions for the bores will be at locations which minimise haulage as shown in the drawing CV-CM-400 series, Construction, Construction, Office andYard Plans, Volume 5.

12. Locality map

Please show the location of you proposed bore. Also show the location of any buildings, roads, septic tanks, other bores, freshwater springs, streams, rivers, wetlands and waste disposal sites that you know of.

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

Refer to Part G, Chapter 25 of the AEE Report, Volume 2 and Technical Report 21, Volume 3.

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 or contractor; the results of any pump test; and/or results of any water quality tests.

Refer to Part H of the AEE Report and the Ground Water (level) Management Plan (being Appendix I of the CEMP) for details on proposed monitoring and management.

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6c Land use consent application – to construct a bridge, culvert or pipe in the bed of a watercourse or lake

Please answer all questions fully. Officers from the 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

This application form is for the construction of a bridge, culvert or pipe. If you are constructing erosion protection structures please fill in application form 6d. If you are undertaking general works in the bed of a watercourse or lake please fill in form 6a.

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

1. Type of structure proposed

What type of consent are you applying for (please indicate below by ticking the appropriate box)

☒ **River Crossing – Culvert** (any structure which encloses a watercourse and is the width necessary for the crossing. Excludes any river crossing that dams a watercourse)

☒ **River Crossing – Bridge** (any structure over a watercourse which is the width necessary for the crossing. Excludes any river crossing that dams a watercourse)

☒ **Pipe** (any structure which encloses a watercourse and is of a width greater than is necessary for a crossing. Excludes any structure that dams a watercourse)

2. What is the purpose of the proposed structure?

Refer to Chapters 7 and 8 of the AEE Report, Volume 2, for a description of the Project.

Refer to Chapter 1 and 2 of the AEE Report, Volume 2, for the reasons why the Project is proposed.

Refer to Hydrology and Stormwater drawings CV-SW-100 to 394, Technical Report Appendices, Report 22, Appendix 22.A, Volume 5.

Refer to Part G, Chapter 24 of the AEE Report, Volume 2 and Technical Report 22, Volume 3 for an assessment of environmental effects.

[Continue on a separate page if necessary]

3. Name the watercourse where the works will occur?

(if the watercourse is an unnamed tributary than what is the name of the stream/river it flows into?

For Question 3 and 4, refer to Part D, Chapter 7 and Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22,Volume 3; and Hydrology and Stormwater drawings CV-SW-100 to 394, Technical Report Appendices, Report 22, Appendix 22.A, Volume 5

Part A: general (continued)

4. Describe the current nature of the watercourse at the proposed site for the works?

Nature of channel i.e. meandering or straight:

Water colour/clarity:

Average flow (m^3/sec):

Bed material (e.g. rocky, silty):

Bank material:

Vegetation:

Fish and invertebrate life:

Other:

For question 4 above, refer to Technical Report 22, Volume 3.

5. Construction methodology

Please provide a step by step construction methodology for the works, including any temporary diversion of water required to undertake the works.

Refer to Part D, Chapter 8 of the AEE Report, Volume 2; Technical Report 4, Volume 3; and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

In regards to Question 6 below, please refer to Scheme Plan drawings CV-SP-100 to 160 (Volume 5) Erosion and Sediment Control drawings (Management Plan Appendices, Appendix H, Appendix H.A, Volume 5) and Hydrology and Stormwater drawings (Technical Report Appendices, Report 22, Appendix 22.A, Volume 5)

[Continue on a separate page if necessary]

Part A: general (continued)

6. 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 A: general (continued)

7. Site photographs

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 upstream 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 e.g. 10m downstream, from the proposed site, vegetation type typical of the watercourse. Please also provide a scale e.g. have a person in the photograph.

Refer to Technical Report 22, Volume 3 and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

8. Who will be undertaking the work?

Fletcher, Higgins and Goodmans contractors.

9. What are the proposed hours of operation/construction?

Proposed in the CEMP, Volume 4.

10. What is the proposed commencement date of the work?

Proposed to commence in the third quarter of 2013 (dependent on all required land and approvals being secured).

11. What is the proposed completion date?

Proposed to complete in the third quarter of 2017.

12. Have any alternatives been considered when planning the proposal? ☒ **Yes** ☐ **No**

Please explain:

Refer to Chapter 9 of the AEE Report, Volume 2, for the consideration of alternatives.

13. As part of your proposal will you be undertaking any of the following activities?

☒ Diversion of water

☒ Bulk earthworks adjacent to any watercourse

Note: If you have ticked any of the above boxes you may be required to fill out an additional form to be submitted as part of your application. Please contact the Environment Helpdesk at Greater Wellington if you are unsure which forms you may require.

Part B: Design data

Please fill in the following section as fully as possible. Professional assistance may be required in filling in this section adequately.

1. Design analysis

Please complete (and tick the identified box) at least one of the following methods of analysis and attach the calculations. Results of flow frequency analysis should be used if available.

☐ **Tech Memo 61 –** use modified TM61 formula for catchments less than 25km^2

☐ **Rational method –** give estimated run-off coefficient "C"

☐ **Regional flood estimation** of Hydrology Centre Publication No. 20 Flood Frequency in New Zealand

2. **What is the time of concentration?** (flow time from the furthest point of the catchment to the site)

   For Part B, Questions 1 to 12 refer to Technical Report 22 ,Volume 3.

3. **What is the design rainfall?** _____ mm/hour [not required for Publication No. 20.]

4. **What is the design discharge?** _____ m^3/sec

5. **What is the design discharge frequency?** (return period of annual exceedance probability) _____

6. **Do you have any measured flows?** Yes ☐ No ☐

   If Yes, please attach showing date, discharge (m^3/sec), estimated frequency, and method of measurement

7. **What is the highest known flood level at the site?** _____ metres

8. **What was the estimated frequency for this flood event?** _____ years

9. **What was the method for obtaining this flood level?** _____

10. **Are there any other bridges, culverts, or pipes nearby on the same channel?** Yes ☐ No ☐

    If Yes, give details:

11. **What is the velocity of the design flood for the proposed structure?** _____ m/sec

12. **Are the flood levels affected by backwater effects?** Yes ☐ No ☐

    If Yes, give details:

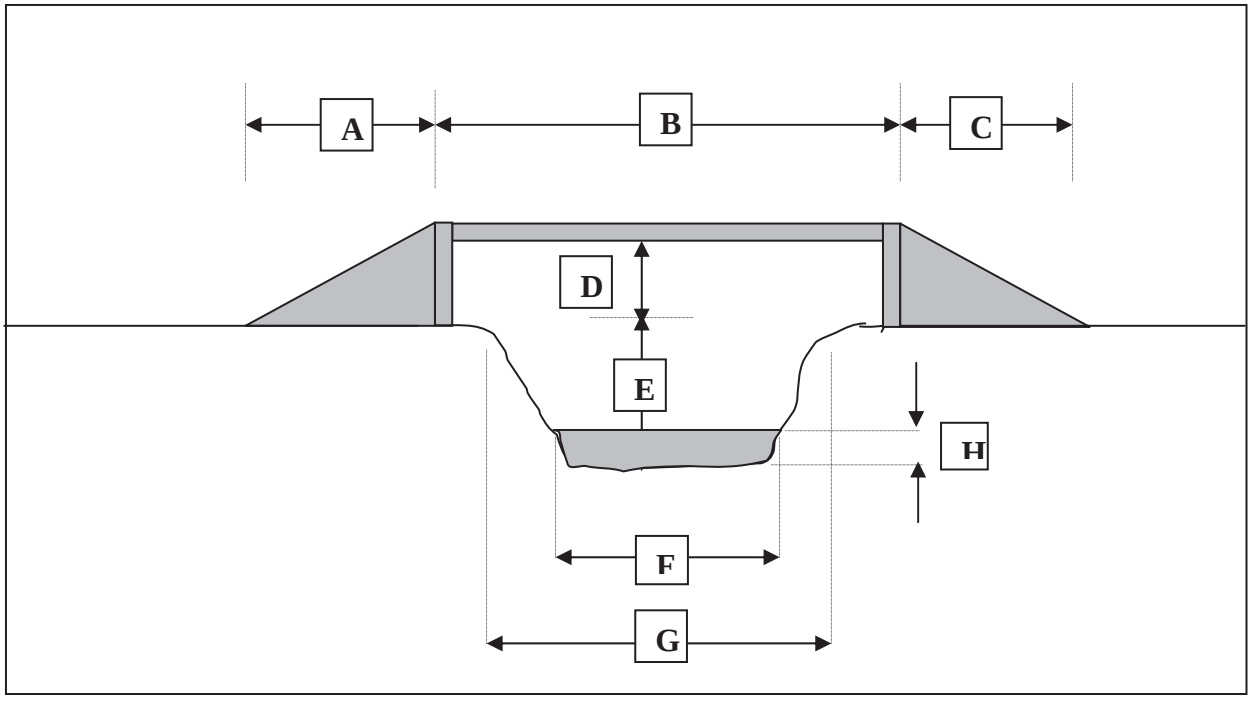
Part C: Construction of a bridge

Please fill in the following section as fully as possible if your application is for constructing a bridge. If you application is for constructing a culvert or pipe, please proceed to Part D. Professional assistance may be required to fill in this section adequately.

1. **Will the abutments of the bridge be outside the banks of the watercourse, in the banks of the watercourse or in the bed of the watercourse?** Please explain:

Part C Question 1 to 5 are addressed within Technical Report 22, Volume 3.

2. Please fill in the dimensions shown on the diagram in the list below (If the bridge design is different from that below please include a diagram showing all dimensions).



2A Length of bridge approach (metres) .....

2B Length of bridge (metres) .....

2C Length of bridge approach (metres) .....

2D Height of bridge underside above natural ground level (metres) .....

2E Height of natural ground level above river/stream bed (metres) .....

2F Bed width of river/stream channel (metres) .....

2G Top width of river/stream channel (metres) .....

2H Average depth of water in the river/stream (metres) .....

3. What is the distance from channel edge to abutment edge? (metres) .....

4. What is the width of any secondary overflow path? (metres) .....

5. What is the depth of any secondary overflow path? (metres) .....

Please proceed to Part E

Part D: Construction of a culvert or pipe

Please fill in the following section as fully as possible if your application is for constructing a culvert or pipe. If you application is for constructing a bridge, please go back to Part C. Professional assistance may be required to fill in this section adequately.

1. **What material is the proposed culvert or pipe to be constructed of?**

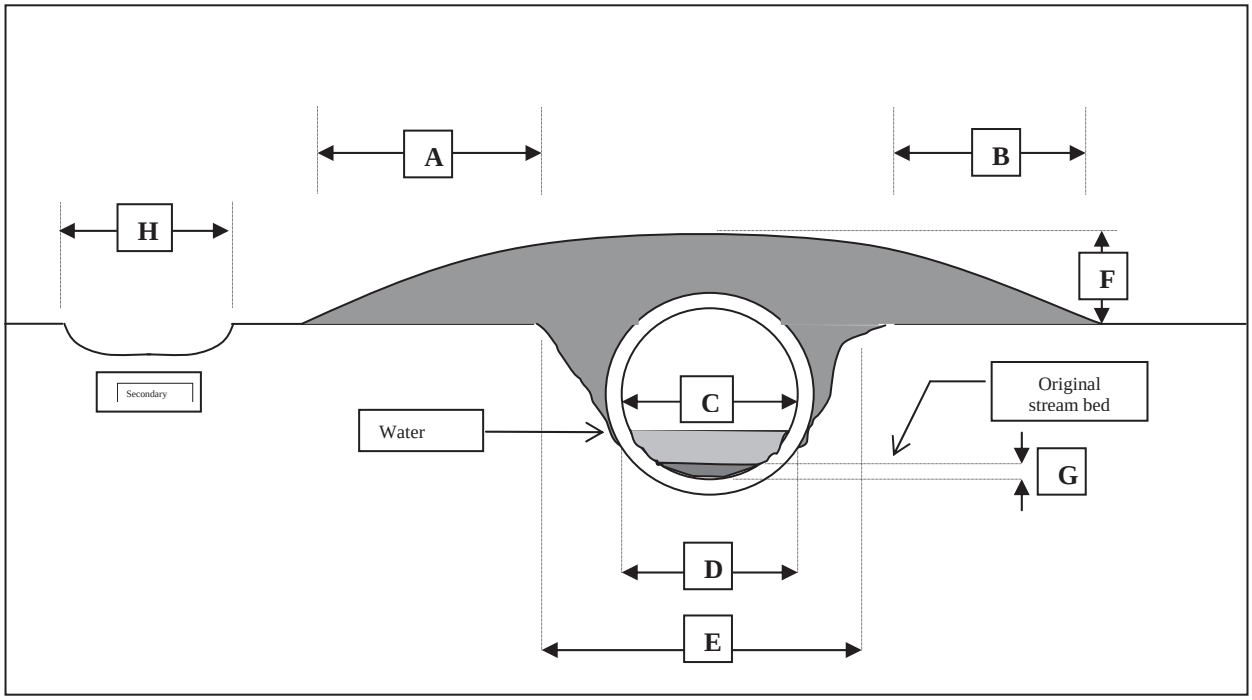
   Part D Question 1 to 5H are addressed within Technical Report 22, Volume 3.

2. **What is the length of the culvert/pipe you intend to place in the stream?** _____

3. **At what gradient will the culvert/pipe be laid in the stream?** _____

4 **What is the gradient of the stream bed?** _____

5. **Please fill in the dimensions shown on the diagram in the list below** (If the bridge design is different from that below please include a diagram showing all dimensions).



5A Length of culvert/pipe approach (metres) _____

5B Length of culvert/pipe approach (metres) _____

5C Dimensions of circular culvert/pipe (metres) _____

5C Dimensions of box culvert/pipe _____ (metres – width) _____ (metres – height)

5D Bed width of river/stream channel (metres) _____

5E Top width of river/stream channel (metres) _____

5F Depth of fill over culvert/pipe (metres) _____

5G Depth of culvert/pipe base below original stream level (metres) _____

5H Secondary overflow path _____ (metres – width) _____ (metres – depth)

Please proceed to Part E

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

If your proposed activity 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.

Water quality

1. 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 runoff:

Refer to Part G, Chapters 21 to 24 and 28 of the AEE Report, Volume 2; the CEMP, Volume 4; the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4); and the Ecological and Landscape Management Plans (being Appendix M and T of the CEMP, Volume 4, respectively).

Building debris:

As above

Machinery fuels:

As above

Concrete:

As above

Other objects or chemicals entering the watercourse:

As above

[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 form Greater Wellington. To get a booklet sent out to you please call the Environment Helpdesk on 04 830 4255.

Part E: Assessment of effects on the environment (AEE) (continued)

Machinery

2. 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 near or in the waterway?

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:

Machinery on the banks of a watercourse:

Refer to the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4)

Machinery in the bed of a watercourse:

As above

Machinery fuels and/or chemicals:

As above

[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:

Refer to Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

Refer to Part H of the AEE Report, Volume 2, for proposed mitigation.

Alterations to water flow:

As above

Part E: Assessment of effects on the environment (AEE) (continued)

Physical barriers to fish passage:

As above

Timing of works that may affect fish spawning/migration:

As above

[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:

Refer to Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

Refer to Part H of the AEE Report, Volume 2, for proposed mitigation.

Change in water flow velocities and water flow paths:

As above

Removal of vegetation associated with the works:

As above

[Continue on a separate page if necessary]

Part E: Assessment of effects on the environment (AEE) (continued)

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:

Other people who may be affected by the works:

Refer to Part F, Chapter 10 of the AEE Report, Volume 2.

Refer to Part H of the AEE Report, Volume 2, for proposed mitigation.

Upstream ponding or flooding:

As above

Cultural, heritage and archaeological values:

As above

Recreational users of the water course

As above

[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:

Refer to Part G, Chapters 17,21,22, 23,24 and 28 of the AEE Report, Volume 2.

Refer to Part H of the AEE Report, Volume 2, for proposed mitigation.

Part E: Assessment of effects on the environment (AEE) (continued)

Other effects:

As above

[Continue on a separate page if necessary]

Part F: 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?** (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.

   Refer to the CEMP, Volume 4; the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4); and the Ecological and Landscape Management Plans (being Appendix M and T of the CEMP, Volume 4, respectively).

   Refer to Part H of the AEE Report, Volume 2, for environmental management and monitoring.

   [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?**

   Refer to the CEMP, Volume 4.

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Te Pane Matua Taiao

6d Land use consent application – to construct an erosion protection structure in the bed of a watercourse or lake

Please answer all questions fully. Officers from the 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

This application form is for the construction of erosion protection structures. If you are constructing a bridge, culvert or pipe please fill in application form 6c. If you are undertaking general works in the bed of a watercourse or lake please fill in form 6a.

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

1. Is this application for a renewal of an existing resource consent?

☐ Yes ☒ No If Yes, what is the consent number? WAR/WGN N/A

2. Type of structure proposed

What type of consent are you applying for (please indicate below by ticking the appropriate box)

☒ **Rock groyne** (any erosion mitigation structure that extends perpendicular to the river and is designed to deflect the direction of flow)

☒ **Rock rip-rap** (any erosion mitigation structure built from rocks extending parallel to the river bank)

☒ **Gabion** (any erosion mitigation structure that is a wire mesh basked filled with rocks)

☒ **Other** (any erosion mitigation structure not listed above)

If you have selected 'Other', please provide a description of the type of erosion mitigation structure that is proposed:

Land use consent is required for the construction of erosion protection structures in the bed of watercourses as part of the construction of the MacKays to Peka Peka Expressway.

Refer to Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3 and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4). Refer to Hydrology and Stormwater Drawings (CV-SW-010 to 394, Technical Report Appendices, Report 22, Appendix 22.A, Volume 5) and the Erosion and Sediment Control Drawings (CV,CM-200 to 231 and 234, Management Plan Appendices, Appendix H, Appendix H.B, Volume 5).

[Continue on a separate page if necessary]

3. What is the purpose of the proposed structure?

Refer to Part D, Chapters 7 and 8 of the AEE Report, Volume 2, for a description of the proposed

activity. Refer to Part A, Chapter 1 and 2 of the AEE Report (Volume 2) for the reasons why the activity is proposed.

[Continue on a separate page if necessary]

Part A: general (continued)

4. Name the watercourse where the works will occur?

(if the watercourse is an unnamed tributary than what is the name of the stream/river it flows into?

For Question 4, refer to Part D, Chapter 7 and Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and the draft Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4)

5. Describe the current nature of the watercourse at the proposed site for the works?

Nature of channel i.e. meandering or straight: _____

Water colour/clarity: _____

Average flow (m^3/sec): _____

Bed material (e.g. rocky, silty): _____

Bank material: _____

Vegetation: _____

Fish and invertebrate life: _____

Other: _____

For Question 5 above refer to Part G, Chapters 21, 22, 24 and 28 of the AEE Report, Volume 2.

6. Construction methodology

Please provide a step by step construction methodology for the works, including any temporary diversion of water required to undertake the works.

Refer to Part D, Chapter 8 of the AEE Report, Volume 2, Technical Report 4, Volume 3 and the draft Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4)

In regard to Question 7 below, please refer to Hydrology and Stormwater Drawings (CV-SW-010 to 394, Technical Report Appendices, Report 22, Appendix 22.A, Volume 5) and the Erosion and Sediment Control Drawings (CV,CM-200 to 231 and 234, Management Plan Appendices, Appendix H, Appendix H.B, Volume 5).

[Continue on a separate page if necessary]

Part A: general (continued)

7. 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 A: general (continued)

8. Site photographs

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 upstream 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 e.g. 10m downstream, from the proposed site, vegetation type typical of the watercourse. Please also provide a scale e.g. have a person in the photograph.

Refer to Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

9. What material is the proposed erosion protection structure to be constructed of? (i.e. rock size, type, density etc.)?

As above.

For Question 10 below, refer to those drawings referenced in Question 1 and 7 above.

10. Design plans

Please provide detailed design plans on the exact location of any structure, height of structure, depth of structure below normal bed level, length of structure parallel to channel edge, length of structure perpendicular to channel edge, 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.)

11. Has consideration been given to scour depth at the proposed site and/or predicted scour depth in a flood event? ☒ **Yes** ☐ **No**

If yes, please explain. Please include the planned bedded depth of the structure.

Refer to Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

Part A: general (continued)

12. If there are any other erosion structures nearby in the same channel, please provide details:

As above.

13. Who will be undertaking the work?

Fletchers, Higgins, and Goodmans (Construction contractors, MacKays to Peka Peka Expressway Alliance)

14. What are the proposed hours of operation/construction?

Proposed in the CEMP, Volume 4.

15. What is the proposed commencement date of the work?

Proposed at Quarter 3 2013 (dependent on all required land and approvals being secured)

16. What is the proposed completion date?

Proposed at Quarter 3 2017.

17. Have any alternatives been considered when planning the proposal? ☒ **Yes** ☐ **No**

Please explain:

Refer to Part E, Chapter 9 of the AEE Report, Volume 2, for the consideration of alternatives.

18. As part of your proposal will you be undertaking any of the following activities?

☒ Diversion of water

☒ Bulk earthworks adjacent to any watercourse

Note: If you have ticked any of the above boxes you may be required to fill out an additional form to be submitted as part of your application. Please contact the Environment Helpdesk at Greater Wellington if you are unsure which forms you may require.

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

If your proposed activity 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.

Water quality

1. 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 runoff:

Refer to Part G, Chapters 21, 22, 23, 24 and 28 of the AEE Report, Volume 2; the CEMP, Volume 4; the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4); and the Ecological and Landscape Management Plans (being Appendix M and T of the CEMP, Volume 4, respectively).

Building debris:

As above

Machinery fuels:

As above

Concrete:

As above

Other objects or chemicals entering the watercourse:

As above

[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 form Greater Wellington. To get a booklet sent out to you please call the Environment Helpdesk on 04 830 4255.

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

Machinery

2. 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 near or in the waterway?

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:

Machinery on the banks of a watercourse:

Refer to the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

Machinery in the bed of a watercourse:

As above

Machinery fuels and/or chemicals:

As above

[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:

Refer to Part G, Chapter 24 of the AEE Report, Volume 2; Technical Report 22, Volume 3; and the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4.

Refer to Part H of the AEE report (Volume 2) for proposed mitigation.

Alterations to water flow:

As above.

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

Physical barriers to fish passage:

As above

Timing of works that may affect fish spawning/migration:

As above

[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:

Refer to Part G and H of the AEE Report, Volume 2.

Refer to the Erosion and Sediment Control Plan (being Appendix H of the CEMP, Volume 4).

Change in water flow velocities and water flow paths:

As above

Removal of vegetation associated with the works:

As above

[Continue on a separate page if necessary]

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

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:

Other people who may be affected by the works:

Refer to Part F, Chapter 10 of the AEE Report, Volume 2.

Upstream ponding or flooding:

As above

Cultural, heritage and archaeological values:

As above

Recreational users of the water source

As above

[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:

Refer to Part G, Chapter 24 of the AEE Report, Volume 2 and Technical Report 22, Volume 3.

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

Other effects:

Refer to Part G and H of the AEE Report, Volume 2.

[Continue on a separate page if necessary]

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?** (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.

   Refer to Part H of the AEE Report, Volume 2 and the CEMP (with specific reference to Appendix H, M and T of the CEMP, Volume 4).

   [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?**

   Refer to the CEMP, Volume 4.

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6e Land use consent application for tracking/logging/land clearing

Please answer all questions fully. You should discuss your application with one of Greater Wellington's resource advisors before completing this form.

Show the location of the activity and adjoining properties on your map on Form 1. Include design plans and details with this application as appropriate.

Part A: general

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

   Tracking ☒ Logging ☐ Land clearing ☒

   What do you propose to do and why?

   Land use consent is required to disturb soil in areas identified as being erosion prone, to disturb soil for the construction of roading and tracking and to undertake large scale vegetation clearance for the construction of the MacKays to Peka Peka Expressway.

2. What is the land use capability unit of the area at the proposed works?

   Various: 2sl; 3w2; 6s5; and 6e5 (duneland and interdune lowlying peatland)

   For Question 3 below, refer to Part D, Chapter 8 of the AEE Report, Volume 2.

3. What is the area involved? As above hectares

4. Is any native vegetation to be removed? Yes ☒ No ☐

   If yes, is the height:

   Up to 2 metres? ☐ 2 metres to 10 metres? ☐ 10 metres plus? ☒

5. Is there a watercourse, dry or flowing, passing through the operation? Yes ☒ No ☐

   If yes, please name: Refer to Part D, Chapter 7 of the AEE Report, Volume 2 and Scheme Plans, Volume 5

6. Are there any permanent or temporary river crossings proposed? Yes ☒ No ☐

   If yes, how many locations? Refer to the ESCP (Appendix H of the CEMP, Volume 4)

7. What is the proposed commencement date of the work? Programmed to commence within the third quarter of 2013 (dependent on all required land and approvals being secured)

8.	What is the proposed completion date?	Programmed to be completed within the third quarter of 2017.

Part A: general (continued)

9. Describe how the work will be carried out:

   For Question 9, 10 and 11 refer to Part D, Chapter 8 of the AEE Report, Volume 2.

10. Who will be undertaking the work?

11. What are the proposed hours of operation/construction? .

Part B: assessment of effects on the environment

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. A resource advisor can discuss this with you.

1. Are there any alternative locations or methods for carrying out the work? Yes ☒ No ☐

   (1) If yes, where or how?

   Consideration of alternatives are outlined in Part E, Chapter 9 of the AEE Report, Volume 2.

   (2) Why have you chosen this location or method over the others?

   As above

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

   (1) Obvious signs of biota (eg, fish, eels, insect life, aquatic plants)? Yes ☒ No ☐
   (2) Areas where food is gathered (eg, fish, kaimoana)? Yes ☒ No ☐
   (3) Wetlands (eg, swamp areas)? Yes ☒ No ☐
   (4) Recreational activities carried out (eg, swimming, fishing, canoeing, boating)? Yes ☒ No ☐
   (5) Areas of particular aesthetic or scientific value (eg, scenic waterfalls, rapids, archaeological sites)? Yes ☒ No ☐
   (6) Will any land instability result from the removal of vegetation? Yes ☐ No ☒
   (7) Will any water be channelled as a result of soil disturbance? Yes ☒ No ☐
   (8) Will hazardous or toxic chemicals be used or stored on site (eg, fuel)? Yes ☒ No ☐
   (9) Will the water quality be affected? Yes ☒ No ☐

(10) Will access to the lake or river be affected? Yes ☒ No ☐

Part B: assessment of effects on the environment (continued)

Describe the plants, animals and habitat of the surrounding area:

Refer to Part G, Chapter 21 - 23 of the AEE Report, Volume 2 and Technical Reports 26 to 31, Volume 3, in relation to ecology.

If you have answered yes to any of the above, describe what effects your proposed land use consent may have and the steps you propose to take to mitigate these:

Effects have been assessed and addressed as outlined within Part G and H of the AEE Report, Volume 2.

[Continue on a separate page if necessary]

3. Do you propose to undertake any type of monitoring? Yes ☒ No ☐

If yes, what?

Refer to Part H of the AEE Report, Volume 2.

For office use only

Consent No. _____

Renewal: Yes ☐ No ☐