

33 Proposed resource consent conditions

33.1 Guide to reading the conditions

The proposed suite of conditions to manage effects of the Project has been numbered in order to eliminate confusion, specifically to avoid multiple 'Condition 1' and so forth. The numbering format is as follows:

NZTA regional resource consent conditions	
G	General conditions applying to all relevant consents and permits
WS	Conditions applying to consents and permits for works in watercourses
E	Conditions applying to consents and permits for earthworks and erosion and sediment control activities
BC	Conditions applying to consents and permits for the construction of boreholes
GT	Conditions applying to consents and permits for the taking of groundwater

The table below provides explanation to a number of the acronyms and terms used in the conditions.

Definitions	
AEE	Means the MacKays to Peka Peka Expressway Assessment of Effects on the Environment Volumes 1 to 5 dated April 2012
CEMP	Means the Construction Environmental Management Plan
Commencement of Works	Means the time when the works that are the subject of these designations commence
Existing network utilities	Means all network utilities existing at 15 August 2011 (the date of lodgement of this Notice of Requirement). Network utility has the same meaning as in section 166 of the RMA.
GWRC	Means the Greater Wellington Regional Council
KCDC	Means the Kāpiti Coast District Council
Manager	Means the Consents Manager of the Greater Wellington Regional Council
Project	Means the construction, maintenance and operation of the MacKays to Peka Peka Expressway
Project Environmental Manager	Means the person responsible for environmental management during construction, as nominated in the Construction Environmental Management Plan
Work	Means any activity or activities undertaken in relation to the Project

33.2 Proposed NZTA resource consent conditions

33.2.1 Proposed application of conditions

Except as specified otherwise, the General Conditions shall apply to all resource consents as relevant. In addition, a number of resource consents are proposed to have specific conditions apply.

Reference	Wording of Draft Conditions
General	
G.1	<p>The Project shall be undertaken in general accordance with the plans and information submitted with the application as documented as consent numbers [INSERT GWRC REFERENCE NUMBERS HERE], subject to such amendments as may be required by the following conditions of consent.</p> <p>The plans and information include:</p> <ol style="list-style-type: none"> a) Assessment of Environmental Effects report, dated [XXXX] April 2012 b) Plan sets: <ol style="list-style-type: none"> i. CV-SP - 100 – 160: Scheme plans; ii. CV-GP-101-136: Geometric plans; iii. CV-SC-001-004: Cross sections; iv. CV-EW-100-232: Earthworks; v. CV-BR-100-970: Bridges; vi. CV-GE-100-140: Structural - General; vii. GI-PR-01-18: Land Requirement Plans; viii. CV-MF-100-132: Lighting, Marking and Signage; ix. CV-CM-101-412: Construction Methodology; x. Urban & Landscape Design Framework (Technical Report 5); xi. Landscape & Visual (Technical Report 7)- Appendix A & B; xii. Stormwater & Hydrology (Technical Report 22) – Appendix 22.A; xiii. Erosion & Sediment Control (CEMP Appendix H) – Appendix H.B, H.C, H.D, H.E, H.F, H.H, H.I, H.R. <p>Where there is conflict between the documents lodged and the conditions, the conditions shall prevail.</p>
G.2	<p>Subject to the consent holder holding or obtaining appropriate property rights to enable it to do so, the consent holder shall permit the servants or agents of the GWRC to have access to relevant parts of the respective properties at all reasonable times for the purpose of carrying out inspections, surveys, investigations, tests, measurements and/or to take samples.</p>
Pre-construction Administration	
G.3	<p>The consent holder shall seek to arrange a pre-construction site meeting between the GWRC and any other relevant party nominated by the GWRC, including the primary contractor, at least 10 working days prior to commencement of any stage (as identified in the staging plan submitted under condition G.1.</p> <p>In the case that any of the invited parties, other than the representative of the consent holder, does not attend this meeting, the consent holder will have been deemed to have complied with this condition, provided the invitation requirement is met.</p> <p>The consent holder shall ensure that additional site meetings are held between the consent holder, the Manager and any other relevant party nominated by the Manager, at appropriate intervals, and not less than annually.</p>
G.4	<p>The consent holder shall ensure that a copy of this consent and all documents and plans referred to in this consent, are kept on site at all times and presented to any GWRC officer on request.</p>
Consent Lapse and Expiry	
G.5	<p>Pursuant to section 125(1) of the Act, this consent referenced [INSERT GWRC REFERENCE NUMBERS HERE] shall lapse 15 years from the date of its commencement (pursuant to Section 116(5) of the Act) unless it has been given effect, surrendered or been cancelled at an earlier date.</p>
G.6	<p>Pursuant to section 123(c) of the Act, this consent referenced [INSERT GWRC REFERENCE DISCHARGE PERMIT AND WATER PERMIT NUMBERS HERE] shall expire 35 years from the date of its commencement (pursuant to Section 116(5) of the Act).</p>
Review Condition	

Reference	Wording of Draft Conditions
G.7	<p>The Manager may review any or all conditions of this consent by giving notice of their intention to do so pursuant to Section 128 of the Resource Management Act 1991, at any time within six months of the first, third and fifth anniversaries of the date of commencement of the works authorised by this consent for any of the following purposes:</p> <ol style="list-style-type: none"> a) To deal with any adverse effects on the environment, which may arise from the exercise of this consent, and which it is appropriate to deal with at a later stage; and b) To review the adequacy of any monitoring plans proposed and/or monitoring requirements so as to incorporate into the consent any monitoring or other requirements which may become necessary to deal with any adverse effects on the environment arising from the exercise of this consent.
Complaints	
G.8	<p>During construction Work, the consent holder shall maintain a permanent record of any complaints received alleging adverse effects from, or related to, the exercise of this consent. The record shall include:</p> <ol style="list-style-type: none"> a) the name and address (as far as practicable) of the complainant; b) identification of the nature of the complaint; c) location, date and time of the complaint and of the alleged event; d) weather conditions at the time of the complaint (as far as practicable), including wind direction and approximate wind speed if the complaint relates to air discharges; e) the outcome of the consent holders investigation into the complaint; f) measures taken to respond to the complaint; and g) any other activities in the area, unrelated to the project that may have contributed to the complaint, such as non-project construction, fires, or unusually dusty conditions generally. <p>The consent holder shall also keep a record of any remedial actions undertaken.</p> <p>This record shall be maintained on site and shall be made available to the Manager and the Territorial Authority, upon request. The consent holder shall notify the Manager and the Territorial Authority of any such complaints as soon as practicable after the complaint is received by the consent holder, or any representatives. This notification shall be either by telephone or email, or via an alternative electronic method as agreed with the Manager.</p>
Incidents	
G.9	<ol style="list-style-type: none"> a) The consent holder shall immediately notify the Manager and the Territorial Authority if any contaminants (including sediment) or material are released in the undertaking of the Work and enters any watercourse due to any of the following: <ol style="list-style-type: none"> i) discharges from non-stabilised areas that are not treated by erosion and sediment control measures required under this consent; and/or ii) failure of any erosion and sediment control measures; and/or iii) any other incident which either directly or indirectly causes, or is likely to cause, adverse ecological effects in any watercourse that is not authorised by a resource consent held by the consent holder. b) If any of these incidents occur, the consent holder shall notify the Manager as soon as practicable after the incident being identified, and shall: <ol style="list-style-type: none"> i) establish control measures where these have failed or have not been implemented in accordance with the CEMP as soon as practicable; ii) liaise with the Manager to establish what remediation or rehabilitation is required and whether such remediation or rehabilitation is practical to implement; iii) carry out any remedial action as required by and to the satisfaction of the Manager; and iv) maintain a permanent record of the incident at the site, which shall include the date and time of the incident, the nature, manner and cause of the release of the contaminants, weather conditions at the time of the incident and the steps taken to contain any further release and to remedy any adverse ecological effects on the watercourse. c) This notification shall be either by telephone or email, or via an alternative electronic method as agreed with the Manager. d) For the purpose of this condition, 'incident' shall refer to any discharge of

Reference	Wording of Draft Conditions
	contaminants that either directly or indirectly causes, or is likely to cause, adverse ecological effects in any watercourse that is not authorised by a resource consent held by the consent holder.
G.10	<p>The consent holder shall, if requested by the Manager in response to a complaint, incident or other reasonable request that relates to managing an adverse effect that is directly related to the construction of the project, carry out a review of any management plan required by these conditions. The consent holder shall submit the reviewed management plan to the Manager for certification that:</p> <ol style="list-style-type: none"> The reason(s) for requiring the review have been appropriately addressed; and Appropriate actions and a programme for implementation are provided for if required.
Staff Training	
G.11	<p>The consent holder shall ensure that earthworks contractors responsible for supervising site staff shall undergo environmental awareness training, required by the CEMP. This training shall occur at least five working days week prior to the commencement of any earthworks or earthworks stage and shall be given by a suitably qualified and experienced person certified by the Manager to deliver a practical on-site training session. Specifically, contractors shall be briefed as follows:</p> <ol style="list-style-type: none"> Contractors likely to be involved in the construction and maintenance of erosion and sediment control devices shall receive training on the performance standards to be achieved by the erosion and sediment control devices; and Contractors likely to be involved in the construction of any stream diversions or other in-stream works shall be briefed on the values of the stream, the objectives of stream design, the requirements of native fish for fish passage, and the sensitivity of the receiving environment to sediment discharge. Contractors likely to be involved in any works involving vegetation clearance shall be briefed on the values of any significant areas of vegetation that are to be retained, and the methods that shall be used to identify and protect them during construction.
Staging and Programme Conditions	
G.12	<p>The consent holder shall prepare an overall staging plan for the whole project for certification by the Manager at least 15 working days prior to the commencement of any Work authorised by this consent. The staging plan shall set out the proposed total construction period and demonstrate how the project will be staged.</p> <p>Certification of the overall staging plan required under this above is necessary prior to the submission of the CEMP) required under Condition G.20.</p> <p>Advice Note: <i>Condition G.17 below provides for the updating and certification of any Management Plan for which details of various stages of works may not be known at the time the Management Plan is submitted for original certification. In particular, more detailed area specific staging plans are to be prepared and submitted for certification as part of the CEMP under condition G.20. In addition, Construction Erosion and Sediment Control Plans for specific sites along the route are provided under Condition G.28.</i></p>
G.13	<p>The consent holder shall provide the Manager with an updated schedule of construction activities for the Project at monthly intervals throughout the construction phase of the entire Project. Each monthly update schedule shall demonstrate how it fits into the overall staging plan required by Condition G.12.</p>
Annual Report	
G.14	<p>The consent holder shall provide to the Manager by the [XXth of XXXX] each year (or on an alternative date as otherwise agreed), an annual monitoring report. The purpose of this report is to provide an overview of the monitoring and reporting work undertaken, and any environmental issues that have arisen during the construction of the Project. As a minimum, this report shall include:</p> <ol style="list-style-type: none"> all monitoring data required in accordance with the conditions of this consent; any reasons for non-compliance or difficulties in achieving compliance with the conditions of these resource consents; any works that have been undertaken to improve the environmental performance of the site or that are proposed to be undertaken in the up-coming year;

Reference	Wording of Draft Conditions
	<p>d) recommendations on alterations to the monitoring required; and</p> <p>e) any other issues considered important by the consent holder.</p>
Management Plans – General	
G.15	All works shall be carried out in general accordance with the management plans required by these conditions.
G.16	Any changes to management plans specified in Condition G.15 that may be sought by the consent holder shall remain consistent with the overall intent of the relevant management plan and shall be submitted to the Manager for certification at least 10 working days prior to any changes taking effect.
G.17	<p>The management plans may not include all details for every stage of works at the time the plan is submitted for certification to the Manager. If further details are to be provided for later stages of construction, the management plan shall specify which stages require further certification at a later date. Further details shall be submitted to the Manager at least 10 working days prior to works commencing in the relevant construction stage. Any changes to the relevant Management Plan that may be required as a result of further design details shall be submitted to be certified by the Manager at least 10 working days prior to works commencing in the relevant construction stage in accordance with the relevant condition(s). The further details submitted shall be consistent with the original purpose and objectives as outlined in the relevant conditions below.</p>
G.18	Where a management plan is required to be prepared in consultation with any third party, the management plan shall demonstrate how the views of that party (or parties) have been incorporated, and where they have not, the reasons why.
G.19	<p>The management of key environmental effects associated with the construction phase of the Project shall be detailed within environmental management plans that are included in the appendices to the CEMP (draft Plans were submitted with the applications). The finalised management plans shall be submitted to the Manager for certification at least 15 working days before the commencement of construction. Works shall not commence until the consent holder has received the Manager's written certification for the management plan(s). This suite of management plans consist of:</p> <p>a) Erosion and Sediment Control Plan</p> <p>b) Groundwater (Level) Management Plan</p> <p>c) Settlement Effects Management Plan</p> <p>d) Contaminated Soils and Groundwater Management Plan</p> <p>e) Ecological Management Plan</p>
Construction Environmental Management Plan	
G.20	The consent holder shall update and finalise the draft CEMP submitted with the application (dated XX 2012), which shall include the suite of Management Plans listed under condition G.19. The finalised CEMP shall be submitted to the Manager for certification at least 15 working days before the commencement of construction. Works shall not commence until the consent holder has received the Manager's written certification of the CEMP.
G.21	<p>The certification) shall confirm that the CEMP (and its appendices) shall confirm that the CEMP gives effect to the relevant conditions and that includes details of:</p> <p>a) Staff and contractors' responsibilities</p> <p>b) Training requirements for employees, sub-contractors and visitors;</p> <p>c) Environmental incident and emergency management (including the procedures required under condition G.9);</p> <p>d) Communication and interface procedures;</p> <p>e) Environmental complaints management (required under Condition G.8);</p> <p>f) Compliance monitoring;</p> <p>g) Environmental reporting;</p> <p>h) Corrective action;</p>

Reference	Wording of Draft Conditions
	<p>i) Environmental auditing; and</p> <p>j) CEMP review.</p> <p>The CEMP shall also confirm construction methodologies and construction timeframes, including staging.</p>
G.22	The CEMP shall confirm final project details, staging of work, and sufficient engineering design information to ensure that the Project remains within the limits and standards approved under this consent and that the construction activities avoid, remedy or mitigate adverse effects on the environment in accordance with the conditions of this consent. The CEMP shall identify where design information for a particular stage will be submitted at a later stage(s), in accordance with condition G.17.
G.23	At least 15 working days before submitting the CEMP to GWRC for certification the consent holder shall submit a copy of the draft final CEMP required by Condition G.20 to KCDC for comment. Any comments received shall be supplied to the Manager when the CEMP is submitted, along with a clear explanation of where any comments have not been incorporated and the reasons why.
G.24	The CEMP shall be implemented and maintained throughout the entire construction period, and updated if further design information is provided
G.25	A copy of the CEMP shall be held on each construction site at all times and be available for inspection by GWRC.
G.26	If the CEMP (including any of its constituent management plans) required to be revised as a result of any updated or new design information, the changes shall be certified by the Manager in accordance with the relevant condition. The revisions shall be submitted for certification at least 10 working days before the commencement of works in that part of the Project to which the information relates.
Erosion and Sediment Control Management Plan	
G.27	The consent holder shall finalise, submit and implement through the CEMP, an Erosion and Sediment Control Management Plan (ESCP) to be submitted to the Manager for certification at least 15 working days prior to works commencing in accordance with Condition E.1.
G.28	<p>The consent holder shall prepare, submit and implement through the CEMP, site specific Construction [stage] Erosion and Sediment Control Plans (CESCP) to be submitted to the Manager for certification at least 5 days prior to work commencing in that site, in accordance with Condition E.2.</p> <p>The CESCP will be consistent and in accordance with the CEMP as required for G.20 and the ESCP as required for G.27 above.</p>
Groundwater (Level) Management Plan	
G.29	<p>The consent holder shall finalise, submit and implement through the CEMP, the Groundwater (Level) Management Plan (GMP) to be submitted to the Manager for certification at least 15 working days prior to works commencing. The purpose of the management plan is to address the minimum standards, outline the best practicable options for groundwater management and procedures to minimise the effects on groundwater levels.</p> <p>The GWMP shall include information regarding:</p> <ul style="list-style-type: none"> i. the schedule of groundwater monitoring bores identifying piezometer depth, screen length and geological unit; ii. the locations of groundwater monitoring bores shown on plans; iii. the locations of monitoring stations on the Wharemauku Stream and Drain 5; iv. monitoring frequency; v. monitoring methods; vi. reporting requirements; vii. alert and action programmes; viii. response management; and

Reference	Wording of Draft Conditions
	ix. review procedures.
G.30	At least 15 working days before submitting the GMP to GWRC for certification the consent holder shall submit a copy of the draft GMP required by Condition G.29 KCDC for comment. Any comments received shall be supplied to the Manager when the GMP is submitted, along with a clear explanation of where any comments have not been incorporated and the reasons why.
Settlement Management Plan	
G.31	<p>The consent holder shall finalise, submit and implement through the CEMP, the Settlement Management Plan (SEMP) to be submitted to the Manager for certification at least 15 working days prior to works commencing. The purpose of the management plan is to address the potential ground settlements (settlements) associated with construction and operation of the Expressway, and the effects of these settlements on existing buildings, services and transport infrastructure.</p> <p>The SEMP shall include information regarding:</p> <ul style="list-style-type: none"> i. implementation and operational procedures; ii. estimated total settlements iii. monitoring methods; iv. monitoring locations set out on a plan; v. monitoring frequency; vi. reporting requirements; vii. alert and action programmes; and viii. review procedures.
Contaminated Soils and Groundwater Management Plan	
G.32	<p>The consent holder shall finalise, submit and implement through the CEMP, the Contaminated Soils and Groundwater Management Plan (CSGMP) to be submitted to the Manager for certification at least 15 working days prior to works commencing. The purpose of this Plan is to highlight the minimum standards and identify the best practicable option for management of contaminated soil and groundwater for the Project.</p> <p>The CSGMP shall include information regarding:</p> <ul style="list-style-type: none"> a) implementation and operational procedures including: <ul style="list-style-type: none"> i. roles and responsibilities of the Contaminated Land Specialist; ii. management of as yet un-investigated potentially contaminated sites; iii. management of areas of known contamination; iv. risk register records and v. a contingency action plan for unexpected discoveries. b) soil and groundwater contamination monitoring requirements and testing and disposal procedures; c) site validation report; d) consent monitoring requirements; and, e) review procedures.
G.33	The consent holder shall undertake appropriate investigations into the four areas of contaminated land that are proposed to be used for stormwater treatment (identified in Technical Report 23 – Assessment of Land and Groundwater Contamination Effects) to identify the level of contamination and what measures may be required to manage potential effects from the discharge of contaminants on human health. A report outlining the findings of this investigation shall be submitted to the Manager at least 15 working days prior to works commencing.
Ecological Management Plan	
G.34	a) The consent holder shall finalise, submit and implement through the CEMP, the Ecological Management Plan (EMP). The EMP shall be submitted to the Manager for certification at least 15 working days prior to works commencing. The purpose of the

Reference	Wording of Draft Conditions
	<p>Plan is to outline the ecological management programme to protect, reduce and remediate impacts on the environment during the construction phase of the Project. This EMP shall also document the permanent mitigation measures, such as restoration planting, and the mechanisms by which to develop relevant mitigation and restoration plans for terrestrial and freshwater habitat.</p> <p>b) The EMP shall detail the monitoring to be undertaken pre-construction, during construction and post-construction as outlined below in Condition G.38-G.40.</p> <p>c) The EMP shall provide information on how the following outcomes will be achieved:</p> <ol style="list-style-type: none"> i. Minimise loss of valued vegetation and habitats; ii. Minimise construction effects on freshwater and the marine environments; iii. Minimise effects on identified wetlands resulting from hydrological changes to water tables; iv. Minimise effects on fish during stream works; v. Minimise disturbance of nationally threatened or at-risk birds (as listed by the most up to date Department of Conservation threat classification lists) during breeding periods; vi. Re-establish affected lizard habitat and minimise lizard mortality resulting from construction of the Project; vii. Carry out monitoring in a manner that will confirm that adverse effects are as predicted; any exceedance is identified; and appropriate actions are undertaken to rectify; viii. Ensures that mitigation requirements are undertaken and monitored to ensure success is achieved; and ix. Carry out monitoring in a manner that confirms that mitigation meets objectives.
G.35	<p>The EMP shall be prepared by suitably qualified and experienced ecologist, and shall implement the principles and outcomes sought by the Ecological Impact Assessments (Technical Reports 26 – 31). The EMP shall be prepared in accordance with:</p> <ol style="list-style-type: none"> a) NZTA's Environmental Plan; b) The Conservation Management Strategy for the Wellington Conservancy; and c) The Greater Wellington Pest Management Strategy (2009)
G.36	<p>The EMP shall be consistent with the Landscape Management Plan (LMP) that is required to be certified by KCDC under the designation conditions.</p>
G.37	<p>At least 15 working days before submitting the EMP to GWRC for certification the Consent Holder shall submit a copy of the draft EMP required by Condition G.34 to KCDC for comment. Any comments received shall be supplied to the Manager when the EMP is submitted, along with a clear explanation of where any comments have not been incorporated and the reasons why.</p>
Ecological Monitoring – General	
G.38	<p>Monitoring shall be carried out in accordance with the EMP as required by Condition G.34 in order to:</p> <ol style="list-style-type: none"> a) collect baseline information on vegetation, wetlands, freshwater and marine ecology for 1 year prior to construction work starting; b) collect ecological information on vegetation, wetlands, freshwater and marine ecology during construction work; c) collect ecological information on vegetation, wetlands, freshwater and marine ecology for 2 years post construction works completion.
G.39	<p>All ecological monitoring required under the EMP shall be managed by a suitably qualified and experienced ecologist.</p> <p>The results of all monitoring carried out pursuant to the EMP shall be:</p> <ol style="list-style-type: none"> a) available for inspection during normal office hours where such data is available; b) submitted to the Manager at quarterly intervals for certification that the appropriate monitoring has been undertaken; c) submitted to the Director-General of Conservation and KCDC for information; and

Reference	Wording of Draft Conditions
	d) summarised and submitted as part of the annual report required under Condition G.14.
G.40	<p>An Adaptive Management approach shall be taken to responding to ecological effects as outlined in the EMP. The Adaptive Management monitoring shall seek to:</p> <ul style="list-style-type: none"> a) Provide a level of baseline information of pre-construction vegetation, wetlands, freshwater and marine habitats in order to develop 'trigger' levels; b) Undertake monitoring during construction to observe whether 'trigger' levels are exceeded and to determine the effectiveness of the environmental management methods; and c) In the event that trigger levels are exceeded an Adaptive Management approach shall be enlisted that will seek to: <ul style="list-style-type: none"> i. Investigate a plausible cause-effect association with the Project; should the event be linked to the project the following steps will be undertaken: <ul style="list-style-type: none"> A. Identify the on-site practice that is generating the effect; B. Seek to alter the operational measure in consultation with GWRC; C. Undertake further monitoring to assess the effectiveness of the altered on-site practice. ii. If the trigger level exceedance is not attributable to works associated with the Project, the consent holder shall not be held liable for any remediation or mitigation works; iii. Trigger level exceedances during construction should be treated as management triggers and not compliance triggers in the first instance.

33.3 Proposed consent conditions for earthworks and discharges to land

- **Land Use Consent – Earthworks** (NSP 12/01.003) to disturb soil to construct roading and tracking for the MacKays to Peka Peka Expressway;
- **Land Use Consent – Earthworks** (NSP 12/01.004) to disturb soil in areas identified as being erosion prone, and undertake large scale vegetation clearance for the MacKays to Peka Peka Expressway.
- **Discharge Permit to land** (NSP 12/01.005) 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.
- **Discharge Permit to land** (NSP 12/01.029) to discharge treated cement contaminated water to water, and to land where it may enter water, associated with the construction of the MacKays to Peka Peka Expressway.
- **Discharge Permit to land** (NSP 12/01.030) to discharge contaminants to land from the Otaihanga Construction Yard.

Reference	Wording of Draft Conditions
E	Earthworks Conditions Erosion and Sediment Control
E.1	<p>The consent holder shall finalise, submit and implement through the CEMP, an Erosion and Sediment Control Management Plan (ESCP) to be submitted to the Manager for certification at least 15 working days prior to works commencing. The purpose of the ESCP is to describe the methods and practices to be implemented to minimise the effects of sediment generation and yield on the aquatic receiving environments associated with the Project. In addition, the ESCP shall:</p> <ol style="list-style-type: none"> a) Outline the principles that the ESCP shall seek to adhere to; b) Be developed in accordance with the objectives outlined in NZTA’s Environmental Plan, including: d) Ensuring construction and maintenance activities avoid, remedy or mitigate effects of soil erosion, sediment run-off and sediment deposition. e) Identify areas susceptible to erosion and sediment deposition and implement erosion and sediment control measures appropriate to each situation with particular emphasis on high-risk areas. f) Use bio-engineering and low-impact design practices where practicable. <p>Advice Note: <i>Erosion and sediment control measures shall be constructed and maintained in accordance with the NZTA’s Draft Erosion and Sediment Control Standard for State Highway Infrastructure and Draft Field Guide for Contractors (and any subsequent amendments to that document that occur after this consent is granted and prior to the commencement of construction), except where a higher standard is detailed in the ESCP referred to in Condition G.27 and E.1, in which case the higher standard shall apply.</i></p>
E.2	<p>The consent holder shall prepare, submit and implement through the CEMP, site specific Construction [stage] Erosion and Sediment Control Plans (CESCPs) to be submitted to the Manager for certification at least 10 days prior to work commencing in that site. The purpose of the CESCP is to allow the consent holder and GWRC to further develop methodologies to be implemented throughout the duration of the project to address the specific characteristics of various sites along the route. In addition, the CESCP shall:</p> <ol style="list-style-type: none"> a) The CESCP will be consistent with the CEMP as required for G.20 and the ESCP as required for G.27 and E.1 above. b) Any changes to the CESCP shall be approved by the Manager prior to the amendment being implemented.
E.3	The CESCPs shall meet the purpose in Condition E.2 and include, but need not be limited to:

Reference	Wording of Draft Conditions
	<ul style="list-style-type: none"> a) Contour information at suitable intervals; b) Erosion and sediment control measures including specific pond design (including calculations supporting pond sizing); c) Chemical treatment design and details; d) Catchment boundaries for the erosion and sediment control measures; e) Location of the Work, and cut and fill operations; f) Details of construction methods to be employed, including timing and duration; g) Design details including: <ul style="list-style-type: none"> i. Contributing catchment area; ii. Retention volume of structure (dead storage and live storage measured to the top of the primary spillway); iii. Shape of structure (dimensions of structure); iv. Location of flood waters v. Safety and access vi. Position of inlets/outlets vii. Stabilisation of the structure; and viii. Maintenance. h) A programme for managing non-stabilised areas of earthworks, including progressive stabilisation considerations; i) The identification of appropriately qualified and experienced staff to manage the environmental issues onsite; j) The identification of staff who have clearly defined roles and responsibilities to monitor compliance with the Consent Conditions and the ESCP; k) Provision of details of a chain of responsibility for managing environmental issues and details of responsible personnel; and l) Methods and procedures to be undertaken for decommissioning of erosion and sediment control measures.
E.4	<p>Prior to any earthworks commencing within a site (other than those required to establish erosion and sediment control measures), a certificate signed by an appropriately qualified and experienced sediment control practitioner shall be submitted to GWRC to certify that the erosion and sediment control measures for that site have been constructed in accordance with the relevant CESC.</p>
E.5	<p>A copy of the "as-built(s)" and the certified CESCPS shall be kept on site, and all erosion and sediment control measures (including staging boundaries and particularly the extent of exposed areas) shall be updated as soon as practicable as changes are made. As-built plans shall be prepared by a suitably qualified person and shall be accompanied by text detailing the relevant earthworks methodology, constraints and likely progressions, and shall be revised as required to enable clear interpretation as to the day-to-day operation and management of erosion and sediment control measures, provided that such revisions are in general accordance with the CESCPS.</p>
E.6	<p>All necessary perimeter controls for a site or stage shall be operational before earthworks (or relevant stage of earthworks) within the site or stage commence.</p>
E.7	<p>No sediment retention ponds, chemical treatment systems or perimeter controls shall be removed or decommissioned from a site, or stage before the entire area is stabilised, unless such removal and decommissioning is in accordance with the CEMP or a CESC, and the Manager has been informed not less than 2 working days prior.</p>
Erosion and Sediment Control Monitoring	
E.8	<p>The Consent Holder shall carry out monitoring in accordance with the ESCP and the certified CESC and which will seek to ensure that:</p> <ul style="list-style-type: none"> a) The proposed erosion and sediment control measures have been installed properly; b) Methodologies are carried out properly; and

Reference	Wording of Draft Conditions
	c) Erosion and sediment control measures are functioning effectively throughout the duration of the project.
E.9	<p>In the event of either a failure of erosion and sediment control devices or where a storm event exceeds the design volume of the device, and where the discharge is to a perennial or intermittent freshwater body, wetland or estuarine/marine environment, a suitably qualified ecologist(s) shall be notified within 24 hours, who shall then inspect the relevant area to determine whether significant adverse effects on the affected area's ecological values have occurred.</p> <p>The Project's Environmental Manager shall prepare a report on the effects of the failure and any recommended measures that may be required to remedy the effects; the report shall be submitted to the Manager for approval within 5 working days of the event.</p> <p>The remedial measures shall be implemented within 10 working days of the approval of the Manager.</p>
E.10	The consent holder shall carry out weekly inspections of all site haul roads in order to ensure they are well maintained and that erosion and sediment control devices remain effective.
Chemical Treatment (Flocculation)	
E.11	<p>a) Prior to the commissioning of chemical treatments for sediment management purposes, the Consent Holder shall provide GWRC with a Chemical Treatment Plan (CTP) for each site, or stage of the works, or in association with an CESCP, at least 10 working days before the commencement of flocculation works.</p> <p>b) The CTP shall be submitted to the Manager for certification that the proposed use of chemical flocculation will assist in achieving appropriate sediment removal efficiencies in accordance with the principles of the ESCP.</p> <p>c) Each CTP shall include, but need not be limited to:</p> <ol style="list-style-type: none"> i) Specific design details of the chemical treatment system; ii) Monitoring, maintenance (including post-storm) and contingency programme (including a Record Sheet); iii) Details of optimum dosage (including catchment specific soil analysis and assumptions); iv) Procedures for carrying out an initial treatment trial; v) A spill contingency plan; vi) A performance monitoring plan; and vii) Details of the person or bodies that will hold responsibility for the maintenance of the chemical treatment system and the organisational structure which will support the system. <p>d) Any amendments to a CTP shall be approved by the Manager at least 10 working days prior to implementation.</p>
Settlement Conditions	
E.12	<p>The consent holder shall establish a series of ground settlement monitoring marks to monitor potential settlement that might occur as a result of construction of embankments and drawdown of the groundwater table. The survey marks will be generally located as follows:</p> <ol style="list-style-type: none"> a) 2 to 4 marks, established in cross-sections along the length of the Expressway as set out in Appendix D of the SEMP (as required by Condition G.31); b) adjacent to stormwater features where groundwater drawdown of more than 0.1 m has been predicted; c) at the KCDC wastewater treatment plant; and d) structures identified close to the Expressway where settlement of more than 12.5 mm is predicted. <p>The locations of each type of settlement monitoring marks shall be confirmed in the SEMP.</p>

Reference	Wording of Draft Conditions
E.13	<p>The consent holder shall survey the settlement monitoring marks at the following frequency:</p> <ul style="list-style-type: none"> a) Pre-construction - vertical at monthly intervals starting at least 12 months prior to construction commencing b) During construction <ul style="list-style-type: none"> i. vertical at 3 monthly intervals ii. within 500 m of active construction – vertical at monthly intervals iii. within 50 m of excavation in front of retaining walls – vertical at monthly intervals. c) Post-construction <ul style="list-style-type: none"> i. Vertical at 3 monthly intervals for 6 months ii. Vertical at 6 monthly intervals for a further period of at least 2 years.
E.14	<ul style="list-style-type: none"> a) Immediately following each monitoring round, the consent holder shall use the settlement monitoring results (together with the results of groundwater monitoring where they may provide an earlier indication of future settlements) to reassess the building damage categories and compare them to those estimated in Technical Report 35 - Assessment of Ground Settlement Effects, as included in Condition G.1a)-b). b) If the reassessment indicates that a building or structure has increased its damage category, this shall be considered to be an Alert Level and additional specific assessment of the structure shall be carried out by the consent holder to confirm this reassessment within 72 hours. c) If the additional assessment confirms the increase in damage category, this shall be considered an Action level and the owner and occupier of the structure shall be notified within 72 hours. d) Following consultation with the property owner and occupier, subsequent actions may include increased frequency and/or extent of monitoring, modification to the construction approach or mitigation works to the affected structure.
E.15	<p>The consent holder may reduce the frequency of settlement monitoring required by Condition E.13:</p> <ul style="list-style-type: none"> a) Once the active construction stage has passed; and b) 3-monthly monitoring has been carried out for a minimum of 6 months; and c) The monitoring indicates that any potential settlement effects are within a satisfactory range as specified in the SEMP; and d) The criteria in E.15a)-c) has been certified by GWRC.
E.16	<p>The consent holder shall collate the results of the settlement monitoring (undertaken pursuant to Conditions E.12-E.15) and prepare a report that shall be made available to GWRC.</p> <p>A settlement monitoring report shall be prepared:</p> <ul style="list-style-type: none"> a) prior to the commencement of construction; and b) at 3-monthly intervals throughout the construction period; and c) following completion of construction, a settlement monitoring report shall be prepared following each round of settlement monitoring undertaken (i.e. 3 monthly and then 6 monthly). <p>The purpose of the reports is to highlight any Alerts or Actions and provide a full interpretation and/or explanation as to why these occurred, the likely effects and any mitigation measures initiated as a result.</p>
E.17	<p>The consent holder shall review and update the schedule of buildings and structures considered to be at risk in accordance with the criteria of the SEMP and maintain this schedule for review by GWRC. This schedule shall include but not be limited to, the following properties:</p> <ul style="list-style-type: none"> a) KCDC wastewater treatment plant; b) The Waikanae Christian Holiday Park (El Rancho); and c) Specific buildings identified during the course of detailed design where the total settlements are estimated to be greater than 25 mm.

Reference	Wording of Draft Conditions
E.18	The consent holder shall consult with owners of buildings and structures identified in Condition E.17a)-c) and, subject to the owner's approval of terms acceptable to the consent holder, shall undertake a pre-construction condition assessment of these structures in accordance with the SEMP.
E.19	The consent holder shall employ a suitably qualified person to undertake the building assessments required pursuant to Condition E.18 and identify this person in the SEMP.
E.20	<p>The consent holder shall undertake monthly visual inspections of the following properties during active construction:</p> <ul style="list-style-type: none"> a) Dwellings where the total settlements are estimated to be greater than 25 mm; b) Dwellings where the predicted Building Damage category is greater than 'negligible' (noting that there are none in this category at this stage); c) KCDC wastewater treatment plant; and d) All other specifically identified buildings in Condition E.17. <p>Active construction shall be defined as starting when earthworks commence within 500m of a particular location and ending when pavement construction is complete at that location.</p>
E.21	<ul style="list-style-type: none"> a) The consent holder shall, subject to the owner's approval, undertake a post-construction condition assessment covering the matters identified in the SEMP and provide a copy to the owner. The assessment report shall include a determination of the cause of damage identified (if any) since the pre-construction condition assessment. b) The consent holder shall agree with the owner appropriate remedial works (if any) in conjunction with arrangements for implementation and/ or compensation. The requirements of this condition need not be fulfilled for any particular building with the written approval of the current owner of a building or where the NZTA can provide reasonable evidence to GWRC that the current owner of the building has agreed they do not require such a survey.
E.22	The consent holder shall provide a copy of the pre, post-construction and any additional building condition assessment reports for each building be forwarded to the respective property owner within 15 working days of completing the reports. The consent holder shall notify GWRC that the assessments have been completed.
E.23	Prior to construction commencing, the consent holder shall undertake CCTV surveys of services identified in the SEMP as being susceptible to damage or particularly critical. The consent holder shall monitor these services by undertaking additional CCTV surveys throughout the construction period. If damage is determined in relation to the Project, the consent holder shall undertake remedial action as required in consultation with the service provider.

33.4 Proposed consent conditions for earthworks and discharges to land

- **Land use consent and water permits** for activities within the Whareroa Stream Catchment (NSP 12/01.006 – NSP 12/01.008);
- **Land use consent and water permits** for activities within the Wharemauku Stream Catchment (NSP 12/01.009 – NSP 12/01.011);
- **Land use consent and water permits** for activities within the Waikanae River Catchment (NSP 12/01.012 – NSP 12/01.014);
- **Land use consent and water permits** for activities within the Waimeha Stream Catchment (NSP 12/01.015 – NSP 12/01.017);
- **Land use consent and water permits** for activities within the Ngarara Creek Catchment (NSP 12/01.018 – NSP 12/01.020);
- **Land use consent and water permits** for activities within the Hadfield/Te Kowhai Stream (NSP 12/01.021 – NSP 12/01.023).

For each of the affected watercourses in the above catchments the following consents and permits are sought:

- **Land Use Consent** – to remove an existing culvert and to divert and reclaim a section of, and place structures (culverts, rip rap and stormwater outlets) in, the bed of the watercourse, including the associated disturbance of, and deposit of material on, the watercourse bed.
- **Water Permit** – to temporarily divert the flow of the watercourse during construction of the culvert and associated structures in the bed of the watercourse.
- **Water Permit** – to permanently divert the full flow of the watercourse.

Reference	Wording of Draft Conditions
	General Conditions
WS.1	The consent holder shall use natural rock and soil material, where practicable, to reclaim the stream bed. All fill material shall be placed and compacted so as to minimise any erosion and/or instability insofar as it is practicable.
WS.2	The consent holder shall seek to ensure that all construction works authorised by this permit to be undertaken in the dry bed of the stream, and are completed before the flow of the stream is diverted back into the stream bed.
WS.3	The consent holder shall design and construct all permanent diversions in a manner that seeks to maintain stream flows (both volume and velocity) in a similar state to its natural state at the time of commencement of Work.
WS.4	<p>The works shall be regularly inspected and maintained by the consent holder so that:</p> <ol style="list-style-type: none"> a) the waterway within the culverts remains substantively clear of debris; b) any erosion of the stream banks or bed that is attributable to, and is within 20m up or downstream of, the stream works authorised by this consent are remedied as soon as practicable by the consent holder; and c) fish passage through the structure is not impeded. <p><i>Explanatory Note: Maintenance does not include any works outside the scope of the application. Any additional works (including structures, reshaping or disturbance to the stream bed) following completion of the construction works as proposed in the application may require further resource consents.</i></p>
	Pre-construction Conditions
WS.5	<p>The consent holder shall prepare and implement a revegetation and mitigation strategy for the stream modifications and structures authorised by this consent. The strategy shall be submitted to the Manager at least 15 working days prior to any Work commencing. The revegetation and mitigation strategy shall include, but not be limited to:</p> <ol style="list-style-type: none"> a) details, methods, timing and responsibilities for revegetation of all exposed areas of

Reference	Wording of Draft Conditions
	<p>stream bank or dewatered channel or culvert fill slopes as a result of this consent, including the methods for the protection of such areas;</p> <p>b) planting plan and schedules; and</p> <p>c) monitoring and maintenance processes and procedures, including for replacement of dead plants, for a period of three years from completion of construction.</p>
Conditions During Construction	
WS.6	Unless otherwise agreed in writing with the Manager, all temporary stream crossings shall be removed within not more than two years of their installation.
WS.7	Unless otherwise agreed in writing with the Manager, upon removal of any temporary crossing, the consent holder shall reinstate the stream bed to, as far as practicable, a natural state to closely match the upstream and downstream riparian and instream habitats and visual appearance.
WS.8	<p>The structures erected as part of the Work shall be regularly inspected and maintained by the consent holder in accordance with NZTA's operational and maintenance manual and maintenance programme, so that:</p> <p>a) the waterway within or over the culverts and fords remains substantively clear of debris;</p> <p>b) any erosion of the stream banks or bed that is attributable to the stream works authorised by this consent are remedied as soon as practicable by the consent holder; and</p> <p>c) fish passage through culverts is not impeded.</p>

33.5 Proposed consent conditions for borehole construction and groundwater takes

- **Land Use Consent – Borehole Construction** (NSP 12/01.024) to construct boreholes for groundwater extraction and the formation of holes for bridge piles that may intercept groundwater.
- **Water Permit – Groundwater Take** (NSP 12/01.025) to take water for bore testing, dewatering of excavations, dust suppression and construction purposes associated with the MacKays to Peka Peka Expressway.
- **Water Permit – Groundwater Diversion** (NSP 12/01.026) to divert groundwater from wetlands adjacent to the MacKays to Peka Peka Expressway.

Explanatory note: these are global consents relating to all bores that intercept groundwater.

Reference	Wording of Draft Conditions
General Conditions – Borehole Construction	
BC.1	The location, design, implementation and operation of the bore(s) shall be in general accordance with the resource consent application and its associated plans and documents, and outlined in Condition G.1.
BC.2	Within one month after completion of all monitoring bore installations, the consent holder shall submit to the Manager a copy of the borehole log details of the piezometer installation.
BC.3	Within one month after completion of each water supply well, the consent holder shall submit to the Manager a copy of the driller's bore log form as completed by the driller who constructed the bore(s) and details of the well installation.
BC.4	The bore(s) shall be constructed and maintained in accordance with the New Zealand Environmental Standard for Drilling of Soil and Rock (NZS 4411:2011).
BC.5	In the event of a bore(s) being decommissioned or abandoned, the bore will be backfilled in accordance with NZS 4411:2011.
BC.6	If so requested by the Manager, the permit holder shall make their bore available for the monitoring of water levels and water quality.
General Conditions – Groundwater Take	
GT.1	The location, design, implementation and operation of the takes shall be in general accordance with the consent application and its associated plans and documents, and outlined in Condition G.1.
GT.2	The rate at which water is taken from each water supply bore shall not exceed 275,000 m ³ /year at 800 m ³ /day and a maximum pumping rate of 35 litres/sec.
GT.3	The consent holder shall undertake the following: <ul style="list-style-type: none"> a) install and maintain a water meter on each water supply bore take prior to the commencement of the take and for the duration of the abstraction from the point of take. The water meter shall measure both cumulative water abstraction and the instantaneous rate of take, and be capable of providing a pulse counter output; b) The water meter shall be calibrated to ensure that the error does not exceed +/- 5%. The water meter shall be installed in accordance with manufacturer's specifications; c) The permit holder shall install and maintain a water meter on the point of take XXX by XX (for existing takes with no meters) or prior to the commencement of the take (for a new take). The water meter shall measure both cumulative water abstraction and the instantaneous rate of take, and be capable of providing a pulse counter output. d) The permit holder shall ensure the water meter shall be calibrated to ensure that the error does not exceed +/- 5%. The water meter shall be installed and maintained in accordance with manufacturer's specifications.
GT.4	A stepped rate pumping test shall be carried out in each new water supply bore to determine the volume of water that can be abstracted from the bore.

Reference	Wording of Draft Conditions
GT.5	Within 3 months of the completion of each pumping test, the consent holder shall submit a report to the Manager, which contains but need not be limited to, the following information: a) Presentation of and analysis of the collected pumping test data b) Use results to simulate drawdown at any potentially affected neighbouring boreholes c) An assessment of the potential effect on nearby streams / wetlands; and d) An assessment on the risk of saline intrusion.
GT.6	If so requested by the Manager, the consent holder shall make its bores available for monitoring of water levels and water quality.
Conditions – Groundwater Diversion	
G.1–G.40	The effects will be managed under the relevant General Conditions applicable to the Project.

33.6 Proposed consent conditions for wetland reclamation and vegetation clearance

- **Land Use Consent – Wetland Reclamation** (NSP 12/01.027) for the partial reclamation of wetlands in the vicinity of the MacKays to Peka Peka Expressway alignment, including the associated disturbance of their beds.
- **Land Use Consent – Vegetation Clearance** (NSP 12/01.028) to remove vegetation in the beds of various watercourses and wetlands, including the associated disturbance of their beds.

Reference	Wording of Draft Conditions
Conditions – Wetland Reclamation	
G.1–G.40	The effects will be managed under the relevant General Conditions applicable to the proposed wetland reclamation.
Conditions – Vegetation Clearance	
G.1–G.40	The effects will be managed under the relevant General Conditions applicable to the proposed clearance of vegetation.