



Papakura to Drury South Stage 1B1

Proposed designation and resource consent conditions

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Separated Condition Sets

- Proposed conditions – Alteration of Designation 6706
- Proposed conditions – Designation SUP
- Proposed conditions – Resource Consents

Index of Designation and Resource Consents

Ref	Notice of Requirement	Lapse Date	Conditions
Designation 6706	Alteration of Designation 6706 for 'Motorway purposes between Auckland Hamilton'	No lapse date as the existing designation has already been given effect to.	GC.1, GC.2, GC.3 PC.3, PC.4 PC.8, PC.9, PC.10 CC.2 – CC.18 MW.1 HH.1 CNV.1 – CNV.4 CT.1 LV.1, LV.2 AB.1, AB.2
Designation SUP	Designation for the construction, operation, and maintenance of a shared path and associated infrastructure.	2 years after the date on which it is included in the AUP (GC.4)	GC.1, GC.2, GC.3, GC.4 PC.3, PC.4 PC.8, PC.9, PC.10 CC.2 – CC.18 MW.1 HH.1 CNV.1 – CNV.4 CT.1 LV.1, LV.2 AB.1, AB.2

Ref	Resource Consents	Detail	Expiry Date	General conditions	Specific conditions
RC.1	Land use (s9) – NESCS	Disturbance of potentially contaminated land	5 years (GC.10)	GC.1, GC.3, GC.5, GC.10	PC.1, PC.2, PC.5, PC.6, PC.7 CC.1 – CC.5 MW.1 CL.1 – CL.7
RC.2	Land use (s9)	Earthworks greater than 50,000m ² (project wide)	5 years (GC.7)	GC.1, GC.3, GC.5, GC.7	PC.1, PC.2, PC.5, PC.6, PC.7 CC.1 – CC.5 MW.1 EW.1 – EW.11
RC.3	Land use (s9)	Development of new and redevelopment of existing impervious area/ high use road and the diversion and discharge of stormwater runoff	35 years (GC.6)	GC.1, GC.3, GC.5, GC.6	CC.1 – CC.5 MW.1 SW.1 – SW.11
RC.4	Coastal permit (s12)	Construction works in the Coastal Marine Area and permanent occupation	35 years (GC.8)	GC.1, GC.3, GC.5, GC.8	PC.1, PC.2, PC.5, PC.6, PC.7 CC.1 – CC.5 MW.1 CA.1 – CA.9 EC.1
RC.5	Stream works (s13)	Construction works within stream environments and new structures	35 years (GC.9)	GC.1, GC.3, GC.5, GC.9	PC.1, PC.2, PC.5, PC.6, PC.7 CC.1 – CC.5 MW.1 ST.1 – ST.10 EC.1
RC.6	Groundwater permit (s14)	Diversion of groundwater caused by any excavation.	35 years (GC.11)	GC.1, GC.3, GC.5, GC.11	PC.1, PC.2, PC.5, PC.6, PC.7 CC.1 – CC.5 MW.1 GW.1 – GW.94
RC.7	Discharge of contaminants (s15)	Contaminated land discharges	5 years	GC.1, GC.3, GC.5, GC.12	PC.1, PC.2, PC.5, PC.6, PC.7 CC.1 – CC.5 MW.1 CL.1, CL.2, CL.3



Definitions and Explanation of Terms

The table below defines the acronyms and terms used in the conditions.

Abbreviation/term	Meaning/definition
AEE	The Assessment of Effects on the Environment for Papakura to Drury South Stage 1B1.
Application	The notices of requirement and applications for resource consents and supporting information for Papakura to Drury South Stage 1B1 dated XXXX 2021.
AUP	Auckland Unitary Plan Operative in Part
Best Practicable Option	Has the same meaning as in section 2 of the RMA 1991.
CEMP	Construction Environmental Management Plan
Certification	Certification is confirmation from the Council that a management plan meets the requirements of the conditions of the consents or designation that relate to it.
CHTMP	Chemical Treatment Management Plan
Clean Granular Fill Material	Material largely free of silts, muds, dust as well as toxicants.
CMA	Coastal Marine Area
CNVMP	Construction Noise and Vibration Management Plan
Common marine and freshwater area	<p>The area surrounding Jesmond Bridge including the coastal marine area (CMA) and the freshwater streambed immediately upstream.</p> <p>The Auckland Unitary Plan Operative in Part (Updated 12 March 2021) defines the CMA as</p> <p><i>“the same meaning as in the Resource Management Act 1991 except where the line of mean high water springs crosses a river specified in Appendix 7 Coastal Marine Area boundaries, the landward boundary must be the point defined in the appendix.”</i></p> <p>The CMA referred to within the application only relates to the seaward (northern) side of Jesmond Bridge. The CMA boundary at Jesmond Bridge is illustrated on the Auckland Council Geomaps.</p>
Completion of Construction	When construction of the Project (or the relevant part of the Project) is complete and it is available for use.
Construction Works	Activities undertaken to construct the Project under these designations/resource consents, excluding Enabling Works.
Council	Auckland Council
CSMP	Contaminated Site Management Plan
CSRMP	Coastal and Stream Works Reinstatement Management Plan
CTMP	Construction Traffic Management Plan
EIMP	Electricity Infrastructure Management Plan
Enabling Works	<p>Includes the following and similar activities:</p> <ul style="list-style-type: none"> Geotechnical investigations (including in the CMA) and land investigations, including formation of access on land for investigations;

	<ul style="list-style-type: none"> Establishing site yards, site offices, site entrances and fencing; Constructing site access roads; Relocation of services; Establishing mitigation measures (such as erosion and sediment control measures, earth bunds and planting).
ESCP	Erosion and Sediment Control Plan
GD01	Auckland Council's Guideline Document 2017/001 Stormwater Management Devices in the Auckland Region.
GD05	Auckland Council's Guideline Document 2016/005 Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region.
HHMP	Historic Heritage Management Plan
Historic Heritage	Meaning as in the Resource Management Act 1991
HNZPT	Heritage New Zealand Pouhere Taonga
Manager	The Manager – Resource Consents, of Auckland Council, or authorised delegate.
MWHS	Mean High Water Springs is the highest level that spring tides reach on the average over a period of time.
Mesh	Mesh refers the existing erosion control blanket plastic mesh located on stream banks.
NESCS	Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011
Network Utility Operator	Has the same meaning as set out in section 166 of the RMA
NFRP	Native Fish Relocation Plan
NOR	Notice(s) of Requirement
Designation 6706	Alteration of Designation 6706 for 'Motorway purposes between Auckland Hamilton'
Designation SUP	Designation for the construction, operation, and maintenance of a shared path and associated infrastructure.
NUMP	Network Utility Management Plan
Outline Plan of Works	An outline plan prepared in accordance with section 176A of the RMA.
Project	The construction, operation and maintenance of Papakura to Drury South Stage 1B1 and associated works.
Project Liaison Person	The person or persons appointed by the Requiring Authority / Consent Holder to be the main and readily accessible point of contact for persons wanting information about the Project or affected by the construction work.
Requiring Authority	Waka Kotahi NZ Transport Agency
RMA	Resource Management Act 1991
Schedule	A schedule sets out the best practicable option for the management of noise and/or vibration effects for a specific construction activity and/or location beyond those measures set out in the CNVMP.
SCMP	Stakeholder and Communications Management Plan

Waka Kotahi Southern IIG	A collective of iwi representatives in Southern Auckland (as of XXX 2021) who meet regularly to discuss and advise on matters related to Waka Kotahi activities.
Specific Area	Specific Area relates to a particular site within the Stage 1B1 works area.
SQEP	A suitably qualified environmental practitioner for the purpose of the assessment of contaminated land (Guidance on what is expected of the SQEP is provided in the <i>NESCS User's Guide 2012</i>).
SSESCP	Site Specific Erosion and Sediment Control Plan
Stage of Work	Any physical works that require the development of an Outline Plan.
Start of Construction	The time when Construction Works (excluding Enabling Works), or works referred to in a specific condition, start.
Suitably Qualified Person	A person (or persons) who can provide sufficient evidence to demonstrate their suitability and competence in the relevant field of expertise.
ULDF	Urban and Landscape Design Framework
Waka Kotahi	Waka Kotahi NZ Transport Agency

Conditions

Guide to reading the conditions

The conditions are identified as follows:

Set of proposed conditions	Numbering format
General conditions	GC
Pre-constructions conditions	PC
Mana whenua	MW
Historic Heritage	HH
General construction conditions	CC
Construction noise and vibration	CNV
Construction traffic	CT
Contaminated land	CL
Urban design, landscape, visual and natural character	LV
Earthworks and land disturbance	EW
Coastal activities	CA
Stream works	ST
Stormwater	SW
Groundwater	GW
<u>Ecology</u>	<u>EC</u>

General conditions (GC)

Ref	Condition
Standard conditions	
GC.1	<p>(a) Except as provided for in the conditions and subject to the final design, the Project shall be undertaken in general accordance with the following plans and information submitted with the Application dated [XXXX]:</p> <ul style="list-style-type: none"> (i) <i>Assessment of Effects on the Environment</i> dated [XXXX], specifically Section 2.1 the Proposed Project Works Description and Section 2.2 Proposed Construction Methodology. (ii) The General Arrangement Drawings in Appendix F of the <i>Resource Consent and Notices of Requirement Application and Assessment of Effects on the Environment</i> dated [XXXX]. <p>(b) Where there may be an inconsistency between the documents listed in clause (a) above and the specific requirements of these conditions, these conditions shall prevail.</p> <p>(c) Where there is an inconsistency between the documents listed in clause (a), provided by the applicant as part of the resource consent and notices of requirement, the most recent plans and information prevail.</p>
Designation Review	

GC.2	(a) As soon as practicable following Completion of Construction the Requiring Authority shall: <ul style="list-style-type: none"> (i) review the extent of the designation to identify any areas of designated land that it no longer requires for the on-going operation, maintenance or mitigation of effects of the Project; and (ii) give notice to the Council in accordance with section 182 of the RMA for the removal of those parts of the designation identified above.
GC.3	The preparation of all plans and all actions required by these conditions shall be undertaken by a Suitably Qualified Person.
Designation lapse	
GC.4	In accordance with clause 37(7) of Schedule 6 to the COVID-19 Recovery (Fast-track Consenting) Act 2020, the designation shall lapse if not given effect to within 2 years from which it is included in the AUP.
Consent lapse and expiry	
GC.5	Pursuant to clause 37(7) of Schedule 6 to the COVID-19 Recovery (Fast-track Consenting) Act 2020, the consents shall lapse if not given effect to within 2 years from the date of their commencement unless they have been given effect to, surrendered or been cancelled at an earlier date.
GC.6	Resource consent [reference number] for stormwater diversion shall expire 35 years following the date consent is granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.
GC.7	Resource consent [reference number] for bulk earthworks shall expire 5 years following the date it has been granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.
GC.8	Resource consent [reference number] for coastal occupation shall expire 35 years following the date consent is granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.
GC.9	Resource consent [reference number] for the new structures within the stream beds, shall expire 35 years following the date consent is granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.
GC.10	Resource consent [reference number] for disturbing potentially contaminated land shall expire 5 years following the date it has been granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.
GC.11	Resource consent [reference number] for the take (dewatering) and groundwater diversion shall expire 35 years following the date consent is granted unless it has lapsed, been surrendered, or been cancelled at an earlier date pursuant to the RMA.
GC.12	<u>Resource consent [reference number] for discharge of contaminants into air, water and land during disturbance of the site shall expire 5 years following the date it has been granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.</u>

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Pre-construction conditions (PC)

Ref	Condition
Pre-construction site meeting	
PC.1	At least five working days prior to the Start of Construction, a preconstruction meeting shall be arranged with the Manager as follows: <ul style="list-style-type: none"> (a) The meeting shall be located on the Project site unless otherwise agreed; (b) The meeting shall include representation from the contractor who will undertake the works;

	<p>(c) The following information shall be made available at the pre- construction meeting:</p> <ul style="list-style-type: none"> (i) Conditions of consent; (ii) Timeframes for key stages of the works authorised under this consent; (iii) Contact details of the site contractor and other key contractors; (iv) All relevant management plans as per the requirements of the resource consents; and <p>(d) Representatives of the Waka Kotahi Southern IIG shall be invited to attend the pre- construction meeting.</p>
PC.2	Prior to the Start of Construction, appropriate provision shall be made for a cultural induction of the contractor's staff. The Waka Kotahi Southern IIG or its nominated representative(s) (cultural monitors) shall be invited to participate.
Outline Plan(s) of Works (designation)	
PC.3	<p>(a) An Outline Plan (or Plans) shall be prepared in accordance with section 176A of the RMA.</p> <p>(b) Outline Plan (or Plans) may be submitted in parts or in stages to address particular activities (e.g. design or construction aspects), or a Stage of Work of the Project.</p> <p>(c) Outline Plan (or Plans) shall include any management plan or plans that are relevant to the management of effects of those activities or Stage of Work, which may include:</p> <ul style="list-style-type: none"> (i) Construction Noise and Vibration Management Plan (CNVMP); and (ii) Historic Heritage Management Plan (HHMP).
PC.4	<p>(a) Following submission of the Outline Plan(s), the CNVMP and the HHMP may be amended if necessary, to reflect any changes in design, construction methods or management of effects. Any amendments to the plans are to be discussed with and submitted to the Manager for information without the need for a further Outline Plan process unless those amendments once implemented would result in a materially different outcome to that described in the original Outline Plan.</p> <p>(b) Where the CNVMP and HHMP was prepared in consultation with other parties, any material changes to that plan shall be prepared in consultation with those same parties.</p>
Management plans (resource consent)	
PC.5	<p>(a) The management plans listed in (b) shall be submitted to the Manager at least 20 working days prior to the anticipated Start of Construction (unless otherwise specified) for certification. The certification process shall be confined to confirming that the Management Plan adequately gives effect to the relevant condition(s).</p> <p>(b) The following plans shall be submitted for certification:</p> <ul style="list-style-type: none"> (i) Contaminated Site Management Plan (CSMP); (ii) Site Specific Erosion and Sediment Control Plan (SSESCP); (iii) Chemical Treatment Management Plan (CHTMP); (iv) Coastal and Stream Works Reinstatement Management Plan (CSRMP); and <u>(v) Native Fish Relocation Plan (NFRP);</u> <u>(vi) Lizard Management Plan (LMP); and</u> <u>(vii) Groundwater and Settlement Management Plan (GSMP);</u> <p>(c) If twenty (20) working days have passed since the management plan has been provided to the Manager under clause (a) above, and the consent holder has not received a response from the Manager, the Management Plan shall be deemed to be certified.</p> <p>(d) If the Manager(s)' response is that they are not able to certify the Management Plan the consent holder shall request that the Manager(s) provide reasons and recommendations for changes to the management plan in writing. The consent holder shall consider any of the</p>

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	<p>reasons and recommendation of the Manager(s) and resubmit an amended Management Plan to be certified.</p> <p>(e) If the consent holder has not received a response from the Manager within five (5) working days of the date of resubmission under clause (d) above, the amended Management Plan will be deemed to be certified.</p> <p>(f) Any certified management plan may be amended, if necessary, to reflect any changes in design, construction methods or management of effects without the need for certification, where;</p> <ul style="list-style-type: none"> (i) the amendment/s have no, or a de minimis adverse effect on the environment, or is a change that results in an improved environmental outcome; or (ii) the amendment is an administrative change, including nominating personnel; and (iii) the revised Management Plan is provided to the Manager and, within ten (10) working days of receiving the revised Management Plan, the Manager has not advised in writing that the amendment shall be certified under clause (b) – (e) on the basis that the amendment/s do not meet the requirements of clauses (f)(i) or (f)(ii). <p>(g) Except as provided for in clause (f), amendments to management plans shall be certified in writing by the Manager prior to the commencement of any works to which the amended management plan(s) relate.</p>
PC.6	Management plans may be submitted for certification in parts or in stages to address specific activities or to reflect the staged implementation of the Project.
PC.7	<p>(a) Project works shall not commence within the area to which a management plan applies until the required management plan(s) has been certified.</p> <p>(b) If 20 working days (unless otherwise specified) have passed since the management plan has been provided to the Manager, or 10 working days have passed since an amended management plan has been provided to the Manager, and either:</p> <ul style="list-style-type: none"> (i) An alternative timeframe has not been agreed prior to submission of the management plan; or (ii) The Manager has not certified the management plan; <p>Then the works may commence in accordance with the management plan as provided.</p>
Stakeholder and Communications Management Plan	
PC.88	<p>(a) A Stakeholder and Communications Management Plan (SCMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction.</p> <p>(b) The objective of the SCMP is to identify how the public and stakeholders (including directly affected and adjacent owners and occupiers of land) will be communicated with throughout the Construction Works.</p> <p>(c) To achieve the objective, the SCMP shall include:</p> <ul style="list-style-type: none"> (i) the contact details for the Project Liaison Person. These details shall be on the Project website, or equivalent virtual information source, and prominently displayed at the main entrance(s) to the site(s); (ii) the procedures for ensuring that there is a contact person available for the duration of Construction Works, for public enquiries or complaints about the Construction Works; (iii) methods for engaging with Mana Whenua, to be developed in consultation with Mana Whenua; (iv) a list of stakeholders, organisations, businesses and persons who will be communicated with; (v) methods to communicate the proposed hours of construction activities outside of normal working hours and on weekends and public holidays, to surrounding businesses and residential communities;

- (vi) linkages and cross-references to communication methods set out in other conditions and management plans where relevant.
- (d) any SCMP prepared for a Stage of Work shall be submitted to the Manager for information ten working days prior to the Start of Construction for a Stage of Work.

Complaints Management Process

PC.99

- (a) At all times during Construction Works, a record of any complaints received about the Construction Works shall be maintained. The record shall include:
- (i) The date, time and nature of the complaint;
 - (ii) The name, phone number and address of the complainant (unless the complainant wishes to remain anonymous);
 - (iii) The 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 quality, odour or noise and where weather conditions are relevant to the nature of the complaint;
 - (iv) Measures taken to respond to the complaint or confirmation of no action if deemed appropriate (including a record of the response provided to the complainant)
 - (v) The outcome of the investigation into the complaint;
 - (vi) Any other activities in the area, unrelated to the Project that may have contributed to the complaint, such as non-project construction, fires, traffic accidents or unusually dusty conditions generally.
 - (vii) A copy of the complaints register required by this condition shall be made available to the Manager upon request as soon as practicable after the request is made.

PC.100

Complaints related to Construction Works shall be responded to as soon as reasonably practicable and as appropriate to the circumstances.

General construction conditions (CC)

Ref	Condition
General	
CC.1	Subject to compliance with the Consent Holder's health and safety requirements and provision of reasonable notice, the servants or agents of Council shall be permitted to have access to relevant parts of the construction sites controlled by the Consent Holder at all reasonable times for the purpose of carrying out inspections, surveys, investigations, tests, measurements and/or to take samples.
CC.2	A copy of the plans and these designation and resource consent conditions shall be kept either electronically or in hard copy on-site at all times that Enabling Works and Construction Works are being undertaken
CC.3	All earthmoving machinery, pumps, generators and ancillary equipment must be operated in a manner that ensures spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery services and maintenance.
Construction Environmental Management Plan	
CC.4	<p>(a) A Construction Environmental Management Plan (CEMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction.</p> <p>(b) The objective of the CEMP is to set out the management procedures and construction methods to be undertaken to avoid, remedy or mitigate any adverse effects associated with Construction Works as far as practicable.</p> <p>(c) To achieve the objective, the CEMP shall include:</p> <ul style="list-style-type: none"> (i) the roles and responsibilities of staff and contractors; (ii) details of the site or Project manager and the Project Liaison Person, including their contact details (phone and email address); (iii) the Construction Works programmes and the staging approach, and the proposed hours of work; (iv) the proposed site layouts (including construction yards), locations of refuelling activities and construction lighting; (v) methods for controlling dust and the removal of debris and demolition of construction materials from public roads or places; (vi) methods for providing for the health and safety of the general public; (vii) measures to mitigate flood hazard effects such as siting stockpiles out of floodplains, minimising obstruction to flood flows, actions to respond to warnings of heavy rain; (viii) procedures for incident management; (ix) procedures for the refuelling and maintenance of plant and equipment to avoid discharges of fuels or lubricants to watercourses; (x) measures to address the storage of fuels, lubricants, hazardous and/or dangerous materials, along with contingency procedures to address emergency spill response(s) and clean up; (xi) procedures for responding to complaints about Construction Works; and (xii) methods for amending and updating the CEMP as required. <p>(d) Any CEMP prepared for a Stage of Work shall be submitted to the Manager for information at least ten working days before the Start of Construction for a Stage of Work.</p>

	(e) The CEMP shall be prepared having regard to the Waka Kotahi Guideline for Preparing Environmental and Social Management Plans (April 2014), or any subsequent version.
CC.5	If the CEMP required by condition CC.4 is amended or updated, the revised CEMP shall be submitted to the Manager for information within five (5) working days of the update being made.
Network Utility Management Plan	
CC.6	<p>(a) A Network Utility Management Plan (NUMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction.</p> <p>(b) The objective of the NUMP is to set out a framework for protecting, relocating and working in proximity to existing network utilities.</p> <p>(c) To achieve the objective, the NUMP shall include methods to:</p> <p>(i) Provide access for maintenance at all reasonable times, or emergency works at all times during construction activities;</p> <p>(ii) Manage the effects of dust and any other material potentially resulting from construction activities and able to cause material damage, beyond normal wear and tear to overhead transmission lines in the Project area;</p> <p>(d) The NUMP shall be prepared in consultation with the relevant Network Utility Operator(s) who have existing assets that are directly affected by the Project.</p> <p>(e) The NUMP shall describe how any comments from the Network Utility Operator in relation to its assets have been addressed.</p> <p>(f) Any comments received from the Network Utility Operator shall be considered when finalising the NUMP.</p> <p>(g) Any amendments to the NUMP related to the assets of a Network Utility Operator shall be prepared in consultation with that asset owner.</p>
Transpower	
CC.7	Temporary and permanent works in the vicinity of overhead transmission assets shall be designed and undertaken to comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances (NZECP 34:2001).
CC.8	Temporary and permanent works shall be designed to mitigate Earth Potential Rise (EPR) where the use of conductive materials for road infrastructure (e.g. metallic barriers, lighting, noise walls) or relocated network utilities are within 50m of the Bombay to Otahuhu A (BOB-OTA-A) 110kV and Huntly to Otahuhu A (HLY-OTA-A) 220kV transmission assets.
CC.9	Temporary and permanent works shall be designed so that the vertical clearance provided between the transmission line conductors and the finished road level of State Highway 1 (including approach roundabouts and on/off ramps) is a minimum of 9.5 metres for the BOB-OTA-A 110kV line and 10.5m for the HLY-OTA-A 220kV line.
CC.10	Temporary and permanent works shall be designed to maintain a comparable standard of access to the Bombay to Otahuhu A (BOB-OTA-A) 110kV and Huntly to Otahuhu A (HLY-OTA-A) 220kV transmission assets for maintenance at all reasonable times, and emergency works at all times.
CC.11	Proposed planting and ongoing maintenance of trees and vegetation in the vicinity of overhead transmission lines shall comply with the Electricity (Hazards from Trees) Regulations 2003.
CC.12	Species planted within 12m of the centreline of the National Grid transmission lines shall not exceed 2m in height. When planted, trees (at full maturity height) shall not be able to fall within 4m of a transmission line conductor at maximum swing.
Electricity Infrastructure Management Plan	

CC.13	An Electrical Infrastructure Management Plan (EIMP) shall be prepared prior to the start of construction works within fifty metres of the transmission assets listed in Condition 15(ii) below. The EIMP shall be prepared in consultation with Transpower.
CC.14	The purpose of the EIMP is to set out the management procedures and construction methods to be undertaken so that works are safe and any potential adverse effects of works on Transpower assets are appropriately managed.
CC.15	<p>(a) To achieve the purpose, the EIMP shall include:</p> <ul style="list-style-type: none"> (i) Roles and responsibilities of staff and contractors responsible for implementation of the EIMP. (ii) Drawings showing proposed works in the vicinity of, or directly affecting, the following transmission assets: <ul style="list-style-type: none"> A. Bombay to Otahuhu A (BOB-OTA-A) 110kV B. Huntly to Otahuhu A (HLY-OTA-A) 220kV (iii) Proposed staff and contractor training for those working near the transmission assets. (iv) Proposed methods to comply with Conditions CC.7 – CC.10 above; (v) Proposed methods to comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances 2001 (NZECP 34: 2001). (vi) Dispensations agreed with Transpower for any construction works that cannot meet New Zealand Electrical Code of Practice for Electrical Safe Distances 2001 (NZECP 34:2001). (vii) Proposed methods to: <ul style="list-style-type: none"> A. Maintain access to the BOB-OTA-A 110kV and HLY-OTA-A 220kV transmission assets for maintenance at all reasonable times, and emergency works at all times; B. Delineate areas that are out of bounds during construction and areas within which additional management measures are required, such as fencing off, entry and exit hurdles, maximum height limits, or where a Transpower observer may be required; C. Manage the effects of dust (including any other material potentially resulting from construction activities able to cause material damage beyond normal wear and tear) on the transmission lines; D. Manage any changes to drainage patterns, runoff characteristics and stormwater to avoid adverse effects on foundations of any support structure; E. Manage construction activities that could result in ground vibrations and/or ground instability to avoid causing damage to transmission lines and support structures.
CC.16	The EIMP shall include confirmation that it has been reviewed and endorsed by Transpower and shall be submitted to Council for information.
CC.17	<p>Construction works shall not commence within fifty metres of the BOB-OTA-A 110kV and HLY-OTA-A 220kV transmission assets until the EIMP required by Condition CC.15 above has been completed and either:</p> <ul style="list-style-type: none"> (a) the Project has been designed to comply with Condition CC.7 – CC.10 above; or (b) the BOB-OTA-A 110kV and HLY-OTA-A 220kV transmission assets have been relocated or altered as agreed by Transpower.
CC.18	<p>Construction works shall be undertaken in accordance with the Electrical Infrastructure Management Plan prepared in accordance with Condition CC.15 above.</p> <p>ADVICE NOTE:</p> <p><i>Written notice should be provided to Transpower 10 working days before starting works within 50 metres of transmission assets. Written notice should be sent to:</i></p> <p>transmission.corridor@transpower.co.nz</p>

Mana whenua (MW)

Ref	Condition
Cultural Monitoring Plan	
MW.1	<p>(a) A Cultural Monitoring Plan shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction. The Cultural Monitoring Plan shall be prepared by a person identified in collaboration with Relevant Iwi Authorities.</p> <p>(b) The purpose of the Cultural Monitoring Plan is to set out the agreed cultural monitoring requirements and measures to be implemented during construction activities, to acknowledge the historic and living cultural values of the area to Mana Whenua and to minimise potential adverse effects on these values.</p> <p>(c) The Cultural Monitoring Plan shall include:</p> <ul style="list-style-type: none"> (i) Requirements and protocols for cultural inductions for contractors and subcontractors; (ii) Identification of sites and areas where cultural monitoring is required during particular Construction Works; (iii) Identification of personnel nominated by the project Relevant Iwi Authorities to undertake cultural monitoring, including any geographic definition of their responsibilities; and (iv) Details of personnel nominated by the project Relevant Iwi Authorities to assist with management of any issues identified during cultural monitoring. <p>ADVICE NOTE:</p> <p><i>For the purposes of the Project, RIAs are considered to be members of the Southern Iwi Integration Group.</i></p>

Historic Heritage (HH)

Ref	Condition
Historic Heritage Management Plan	
HH.1	<p>(a) A Historic Heritage Management Plan (HHMP) shall be submitted with the Outline Plan of Works. The HHMP shall be prepared in consultation with Council, HNZPT and Mana Whenua.</p> <p>(b) The objective of the HHMP is to protect historic heritage and to remedy and mitigate any residual effects as far as practicable.</p> <p>(c) To achieve the objective, the HHMP shall identify:</p> <ul style="list-style-type: none"> (i) Specific areas to be investigated, monitored and recorded to the extent these are directly affected by the Project; (ii) Known archaeological sites and potential archaeological sites within the designation, including identifying any archaeological sites for which an Archaeological Authority under the HNZPTA will be sought or has been granted; (iii) Methods for managing any unrecorded archaeological sites or post-1900 heritage sites within the designation, which shall also be documented and recorded; (iv) Methods for identifying and assessing any known or potential built heritage sites within the designation including details of their condition and measures to mitigate any adverse effects in accordance with the HNZPTA guideline AGS 1A; (v) Roles, responsibilities and contact details of Project personnel, Mana Whenua representatives, and relevant agencies involved with heritage and archaeological matters



	<p>including surveys, monitoring of Project works, compliance with AUP accidental discovery rule, and monitoring of conditions;</p> <p>(vi) Provision for access for mana whenua to carry out tikanga and cultural protocols;</p> <p>(vii) Methods for protecting or minimising adverse effects on heritage and archaeological sites within the designation during Project works as far as practicable, (for example fencing around heritage and archaeological sites to protect them from damage during construction);</p> <p>(viii) Protocols to manage accidental discovery of archaeological material as provided for under both the AUP and HNZPTA;</p> <p>(ix) Measures for secure on-site storage and archiving of any archaeological materials;</p> <p>(x) Training requirements for contractors and subcontractors on processes and procedures for heritage and archaeological sites within the designation, and legal obligations relating to finds and accidental discoveries (under both the AUP and HNZPTA); and</p> <p>(xi) Methods for appropriate public dissemination of knowledge gained from heritage investigations.</p> <p><u>(d) At the completion of the Historic heritage investigation component of the Project Works the Requiring Authority will provide confirmation from the Project Archaeologist to the Manager that all works have been completed in accordance with the requirements of the HHMP.</u></p> <p>(xi)</p>
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Construction noise and vibration (CNV)

Ref	Condition
Construction noise and vibration management plan	
CNV.1	<p>(a) A Construction Noise and Vibration Management Plan (CNVMP) shall be prepared prior to the Start of Construction for a Stage of Work and submitted to the Manger for information.</p> <p>(b) A CNVMP shall be implemented during the Stage of Work to which it relates.</p> <p>(c) The objective of the CNVMP is to provide a framework for the development and implementation of the Best Practicable Option for the management of construction noise and vibration effects to achieve the construction noise and vibration standards set out in Conditions CNV.2 and CN.3 to the extent practicable. To achieve this objective, the CNVMP shall be prepared in accordance with Annex E2 of the New Zealand Standard NZS6803:1999 'Acoustics – Construction Noise' (NZS6803:1999) and the Waka Kotahi State highway construction and maintenance noise and vibration guide (version 1.1, 2019), and shall as a minimum, address the following:</p> <ul style="list-style-type: none"> (i) description of the works and anticipated equipment/processes; (ii) hours of operation, including times and days when construction activities would occur; (iii) the construction noise and vibration standards for the Project; (iv) identification of receivers where noise and vibration standards apply; (v) management and mitigation options, and identification of the Best Practicable Option; (vi) methods and frequency for monitoring and reporting on construction noise and vibration; (vii) procedures for communication and engagement with nearby residents and stakeholders, including notification of proposed construction activities, the period of construction activities, and management of noise and vibration complaints; (viii) contact details of the Project Liaison Person;

- (ix) procedures for the regular training of the operators of construction equipment to minimise noise and vibration as well as expected construction site behaviours for all workers;
- (x) identification of areas where compliance with the noise [Condition CNV.2] and/or vibration standards [Condition CNV.3] Category A or Category B will not be practicable and the specific management controls to be implemented and consultation requirements with owners and occupiers of affected sites;
- (xi) procedures and requirements for the preparation of a Schedule to the CNVMP (Schedule) for those areas where compliance with the noise [Condition CNV.2] and/or vibration standards [Condition CNV.3] Category A or Category B will not be practicable and where sufficient information is not available at the time of the CNVMP to determine the area specific management controls [Condition CNV.1(c)(x)];
- (xii) procedures and trigger levels for undertaking building condition surveys before and after works to determine whether any cosmetic or structural damage has occurred as a result of construction vibration;
- (xiii) methodology and programme of desktop and field audits and inspections to be undertaken to ensure that CNVMP, Schedules and the best practicable option for management of effects are being implemented; and
- (xiv) requirements for review and update of the CNVMP.

Noise Criteria

CNV.2

Construction noise from the Project shall be measured and assessed in accordance with the NZS 6803:1999 and shall, as far as practicable, comply with the following criteria:

Day of week	Time	dB LAeq(15min)	dB LAmax
Buildings containing activities sensitive to noise			
Weekdays	0630 – 0730	60	75
	0730 – 1800	75	90
	1800 – 2000	70	85
	2000 – 0630	45	75
Saturdays	0630 – 0730	45	75
	0730 – 1800	75	90
	1800 – 2000	45	75
	2000 – 0630	45	75
Sundays and Public Holidays	0630 – 0730	45	75
	0730 – 1800	55	85
	1800 – 2000	45	75
	2000 – 0630	45	75
Other occupied buildings			
All days	0730 - 1800	75	n/a
	1800 - 0730	80	n/a

Vibration Criteria

CNV.3

- (a) Construction vibration shall be measured in accordance with ISO 4866:2010 Mechanical vibration and shock – Vibration of fixed structures – Guidelines for the measurement of

vibrations and evaluation of their effects on structures and shall comply with the vibration standards set out in the following table as far as practicable.

Table CNV.1 Construction vibration criteria

Receiver	Details	Category A	Category B
Occupied Activities sensitive to noise	Night-time 2000h - 0630h	0.3mm/s ppv	1mm/s ppv
	Daytime 0630h - 2000h	1mm/s ppv	5mm/s ppv
Other occupied buildings	Daytime 0630h - 2000h	2mm/s ppv	5mm/s ppv
All other buildings	At all other times Vibration transient	5mm/s ppv	BS 5228-2* Table B2
	At all other times Vibration continuous	5mm/s ppv	BS 5228-2* 50% of Table B2 values

*BS 5228-2:2009 'Code of practice for noise and vibration control on construction and open sites – Part 2: Vibration'

- (b) Where compliance with the vibration standards set out in Table CNV.1 is not practicable, and unless otherwise provided for in the CNVMP, then the methodology in Condition CNV.4 shall apply.
- (c) If measured or predicted vibration from construction activities exceeds the Category A criteria, construction vibration shall be assessed and managed during those activities.
- (d) If measured or predicted vibration from construction activities exceeds the Category B criteria those activities must only proceed if vibration effects on affected buildings are assessed, monitored and mitigated.

CNV.4

- (a) Unless otherwise provided for in a CNVMP, a Schedule to the CNVMP (Schedule) shall be prepared, in consultation with the owners and occupiers of sites subject to the Schedule to the CNVMP, when:
 - (i) construction noise is either predicted or measured to exceed the noise standards in Condition CNV.2;
 - (ii) construction vibration is either predicted or measured to exceed the Category A standard at the receivers in Condition CNV.3.
- (b) The objective of the Schedule is to set out the Best Practicable Option for the management of noise and/or vibration effects of the construction activity beyond those measures set out in the CNVMP. The Schedule shall include details such as:
 - (iii) construction activity location, start and finish times;
 - (iv) the nearest neighbours to the construction activity;
 - (v) the predicted noise and/or vibration level for all receivers where the levels are predicted or measured to exceed the applicable standards in Conditions CNV.2 and CNV.3;
 - (vi) the proposed mitigation;
 - (vii) the proposed communication with neighbours; and
 - (viii) location, times and types of monitoring.
- (c) The Schedule shall be submitted to the Manager for information at least 5 working days, except in unforeseen circumstances, in advance of Construction Works that are covered by the scope of the Schedule and shall form part of the CNVMP.

Construction traffic (CT)

Ref	Condition
Construction traffic management plan	
CT.1	<p>(a) A Construction Traffic Management Plan (CTMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction. The CTMP shall be prepared in consultation with Auckland Transport (including Auckland Transport Metro) and KiwiRail. The outcome of consultation undertaken between the Requiring Authority and Auckland Transport shall be documented including any Auckland Transport comments not incorporated within the final CTMP submitted to the Manager.</p> <p>(b) The objective of the CTMP is to avoid, remedy or mitigate, as far as practicable, adverse construction traffic effects.</p> <p>(c) To achieve this objective, the CTMP shall include:</p> <ul style="list-style-type: none"> (i) methods to manage the effects of temporary traffic management activities on traffic capacity and movements, in consultation with Auckland Transport ; (ii) measures to manage the safety of all transport users; (iii) the estimated numbers, frequencies, routes and timing of traffic movements, including any specific non-working or non-movement hours to manage vehicular and pedestrian traffic near schools or to manage traffic congestion; (iv) site access routes and access points for heavy vehicles, the size and location of parking areas for plant, construction vehicles and the vehicles of workers and visitors; (v) methods to manage any road closures that will be required and the nature and duration of any traffic management measures such as the identification of detour routes, temporary restrictions, or diversions and other methods for the safe management and maintenance of traffic flows, including general traffic, buses (including along Park Estate Road and Bremner Road), pedestrians and cyclists, on existing roads. Such access shall be safe, clearly identifiable and seek to minimise significant detours; (vi) methods to maintain pedestrian and/or vehicle access to private property and/or private roads where practicable, or to provide alternative access arrangements when it will not be; (vii) the management approach to loads on heavy vehicles, including covering loads of fine material, the use of wheel-wash facilities at site exit points and the timely removal of any material deposited or spilled on public roads; (viii) methods that will be undertaken to communicate traffic management measures to affected road users (e.g. residents/public/stakeholders/emergency services); (ix) Auditing, monitoring and reporting requirements relating to traffic management activities shall be undertaken in accordance with Waka Kotahi's Code of Practice for Temporary Traffic Management; (x) Methods to manage the availability of on-street and off-street parking if the designated site is unable to accommodate all contractor parking. This shall include an assessment of available parking (if any) for contractors on street and identify measures to meet and/or reduce contractor parking demand for on-street parking to meet this demand; (xi) <u>Methods for recognising and providing for the on-going operation of Auckland Transport managed passenger transport services;</u> (xii) <u>Methods to maintain the functional operational and recreational access to any Auckland Council Park land during construction where practicable.</u> <p>(d) Any CTMP prepared for a Stage of Work shall be prepared in consultation with Auckland Transport and submitted to the Manager for information 10 working days prior to the Start of Construction for a Stage of Work.</p> <p>ADVICE NOTE:</p>

Where construction activities may affect the local road network, separate approval will be required from Auckland Transport (as the road controlling authority). The approval will likely include a Corridor Access Request and accompanying Traffic Management Plan.

Contaminated land (CL)

Ref	Condition
Contaminated Site Management Plan	
CL.1	<p>(a) The Contaminated Site Management Plan (CSMP) submitted with the Application shall be updated by a SQEP prior to the commencement of earthworks in the vicinity of known or potentially contaminated soils. The CSMP shall be updated with the results of any further soil contamination sampling.</p> <p>(b) The objective of the CSMP is to detail the procedures to be implemented during the Project to control the disturbance and movement of identified contaminated, or potentially contaminated soils. These procedures shall cover management of health and safety and potential environmental risk from contaminated land associated with the Project.</p> <p>(c) The CSMP shall be submitted to the Manager for certification at least 20 working days prior to the commencement of earthworks.</p> <p>(d) To achieve the objective, the updated CSMP shall include:</p> <p>(i) Summary of proposed works, areas of known or potentially contaminated soils and material and summary of related hazards;</p> <p>(ii) Roles and responsibilities of the parties involved in the land disturbance activities, including the SQEP;</p> <p>(iii) Methods for soil testing at potentially contaminated sites;</p> <p>(iv) Potential and known hazards arising from contamination (if present);</p> <p>(v) Specific management methods developed for construction earthworks in potentially contaminated soils including:</p> <ol style="list-style-type: none"> 1. On site soil management practices <u>including measures for managing temporary stockpile, with appropriate erosion and sediment controls and covering;</u> 2. <u>Covered</u> Off-site soil transport and disposal; 3. Personal protection and monitoring; and 4. Management of dust and odour including details of where measures are covered in other plans. 5. <u>Response actions which will apply where contaminants are identified that were not anticipated in the CSMP submitted with the Application; and</u> 5-6. <u>Management of perched groundwater or surface run-off water encountered within the excavation.</u> <p>(vi) Testing and validation requirements for the management and disposal of contaminated soil and materials; and</p> <p><u>(vii) Post-construction controls (if required); and</u></p> <p><u>(vii)(viii) Stockpiling of material containing separate phase hydrocarbons or odorous petroleum hydrocarbons shall not take place.</u></p>
General contamination conditions	
CL.2	Discharges of dust shall not cause offensive or objectionable effects at any location beyond the boundary of the works area, in the opinion of the Manager when assessed in accordance with the Good Practice Guide for Assessing and Managing Dust (Ministry for the Environment, 2016).

CL.3	Dust management during the works shall be undertaken in general accordance with the recommendations of the Good Practice Guide for Assessing and Managing Dust (Ministry for the Environment, 2016) and minimise dust generation as far as practicable. This shall include having sufficient water to dampen exposed soil and unsealed areas, and/or other dust suppressing measures, available as necessary.
CL.4	Excavated material that is not re-used on site shall be disposed of at an appropriate facility licensed to accept the levels of identified contamination.
CL.5	Soils imported to the site shall comply with the definition of 'Cleanfill material', as set out in the AUP.
CL.6	All sampling and testing of contamination on the site shall be overseen by a SQEP. All sampling shall be undertaken in general accordance with the Contaminated Land Management Guidelines No.5: Site Investigation and Analysis of Soils (Ministry for the Environment, revised 2011).

Completion Report

CL.7	<p>Within three months of the completion of earthworks on the site, a works completion report shall be submitted to the Manager. The works completion report shall be prepared by a SQEP and contain sufficient detail to address the following matters:</p> <ul style="list-style-type: none"> (a) A summary of the works undertaken, including the location and dimensions of the excavations carried out and the volume of soil excavated and removed from the site; (b) Details and results of any testing undertaken and interpretation of the results in the context of the NESCS, and the AUP; (c) Records/evidence of the appropriate disposal for any material removed from the site; (d) Records of any unexpected contamination encountered during the works and response actions, if applicable; (e) Conditions of the final site ground surface and details of any validation sampling undertaken on materials re-used on site or imported to site; (f) Reports of any complaints, health and safety incidents related to contamination, and/or contingency events during the earthworks; and (g) A statement certifying that all works have been carried out in accordance with the requirements of the consent and CSMP.
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Urban design and landscaping (LV)

Ref	Condition
Urban Design and Landscape Framework	
LV.1	Project planting shall have been fully implemented by the completion of the first planting season following the completion of Project works.
LV.2	Any project planting that fails to establish, or that decline or die within 2 years, must be replaced to the satisfaction of the Manager. The replacement trees must be of similar grade and size to that originally planted.

Arboriculture (AB)

Ref	Condition
AB.1	All works within the protected root zone of trees to be retained shall be supervised. Works within the protected root zone shall be undertaken as set out in the Arboricultural Assessment prepared by Peers Brown Miller Limited, dated September 2020.
AB.2	There shall be no storage (or temporary storage) of materials, machinery and equipment within the protected root zone of any protected tree.

Earthworks and land disturbance (EW)

Ref	Condition
Erosion and Sediment Control Plans	
EW.1	<p>(a) A Site Specific Erosion and Sediment Control Plan (SSESCP) shall be prepared prior to the Start of Construction in a Specific Area.</p> <p>(b) The objective of the SSESCPs is to set out measures to be implemented during construction to manage and reduce as far as practicable erosion and the discharge of sediment beyond the footprint of the Project.</p> <p>(c) The SSESCP shall be submitted to the Manager for certification at least 5 working days prior to the Start of Construction in a Specific Area.</p> <p>(d) To achieve the objective, the SSESCP for a Specific Area shall include:</p> <ul style="list-style-type: none"> (i) Detailed erosion and sediment control measures for all works associated within channels and stream works; (ii) Details of specific erosion and sediment controls to be utilised, (location, dimensions (including shape and volume), position of inlets/outs); (iii) Supporting calculations including design drawings; (iv) Catchment boundaries and contour information; (v) Design details for managing the treatment, disposal and/or discharge of contaminants (e.g. concrete wash water); (vi) Pumping management activities; (vii) Timing and duration of construction and operation of control works (in relation to the staging and sequencing of earthworks); (viii) Details of construction methods; (ix) Details relating to the management of exposed areas and stabilisation of erosion control devices (e.g. grassing, mulching); (x) Erosion and sedimentation controls (including use of a fully biodegradable erosion control blankets in the vicinity of any waterways) specific to an estuarine environment to minimise runoff, turbidity, debris/dust and the exit velocity of any overland discharges into the Ngakoroa Stream. (xi) The identification of staff who will monitor compliance with conditions; and (xii) Monitoring and maintenance requirements. <p>(e) All 'Cut and Cover' operations are to be stabilised in accordance with Council's Guideline Document 2016/005 Erosion and Sediment Control Guide for Land Disturbing Activities in the</p>

	Auckland Region GD05 (and any amendments to this document) at the end of each working day, and/or if rain is forecast.
EW.2	<p>(a) A Chemical Treatment Management Plan (CHTMP) shall be prepared prior to the Start of Construction.</p> <p>(b) The objective of the CHTMP is to provide specific chemical treatment details for the site's decanting earth bunds.</p> <p>(c) The CHTMP shall be submitted to the Manager for certification at least 20 working days prior to the Start of Construction.</p> <p>(d) To achieve the objective, the CHTMP shall include as a minimum:</p> <ul style="list-style-type: none"> (i) Specific design details of the chemical treatment system based on a rainfall activated methodology for the site's decanting earth bunds; (ii) Details of optimum dosage (including assumptions and consideration of the use of organic flocculants); (iii) Results of initial chemical treatment trial and bench testing; (iv) Monitoring, maintenance (including post-storm) and contingency management (including a record sheet); (v) A spill contingency plan; and (vi) Details of the person or bodies that will hold responsibility for the operation and maintenance of the chemical treatment system and the organisational structure which will support this system.
General earthworks	
EW.3	Upon abandonment or completion of earthworks on the Project site all areas of bare earth shall be permanently stabilised against erosion in accordance with GD05 or any amendments to this document.
EW.4	Prior to bulk earthworks commencing in a Specific Area identified by a SSES CP (as described by condition EW.1), a signed certificate shall be submitted to the Manager to certify that the erosion and sediment controls have been constructed in accordance with the SSES CP.
EW.5	Sediment laden water passing through decanting earth bunds shall be chemically treated throughout the duration of earthworks in accordance with the certified CHTMP.
EW.6	All silt fences and super silt fences shall be installed, operated and maintained in accordance with GD05 and any amendments to this document.
EW.7	There shall be no deposition of earth, mud, dirt or other debris on any road or footpath outside of the Project site resulting from earthworks activity. In the event that such deposition does occur, it shall be removed as soon as practicable. In no instance shall roads or footpaths be washed down with water without appropriate erosion and sediment control measures in place to prevent contamination of the stormwater drainage system, watercourses or receiving waters.
EW.8	The operational effectiveness and efficiency of all erosion and sediment control measures specifically required as a condition of this resource consent or by the SSES CP, shall be maintained throughout the duration of earthworks activity, or until the site is permanently stabilised against erosion.
EW.9	The site shall be progressively stabilised against erosion at all stages of the earthworks activity, including temporary stabilisation of those areas of earthworks not actively worked for more than a 14-day period, and shall be sequenced to minimise the discharge of contaminants to surface water.
Seasonal Restrictions	
EW.10	No earthworks on the Project site shall be undertaken between 1 May and 30 September in any year, without the written certification of the Manager prior to works commencing .

EW.11	Stabilisation / revegetation is to be completed by 30 April in any year in accordance with measures detailed in GD05 or any amendments to this document.
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Coastal activities (CA)

Ref	Condition
Coastal construction	
CA.1	<p>(a) A Coastal and Stream Works Reinstatement Management Plan (CSRMP) shall be prepared prior to the Start of Construction.</p> <p>(b) The objective of the CSRMP is to confirm the proposed construction methodologies for works in the CMA and stream environments and to set out the specific management procedures to be undertaken in order to manage potential adverse effects arising from those works.</p> <p>(c) The CSRMP shall be submitted to the Manager for certification at least 20 working days prior to the commencement of works within the CMA and/or stream and coastal environments of Ngakoroa Stream in the vicinity of Jesmond bridge.</p> <p>(d) To achieve the objective, the CSRMP shall include:</p> <p style="margin-left: 20px;">(i) Construction methodologies, including:</p> <p style="margin-left: 40px;">A. Plan(s) of the combined construction and reinstatement footprint adjacent to the coastal and/or stream environment, minimising the area required for access and works areas;</p> <p style="margin-left: 40px;">B. Details for the use of Clean Granular Fill Material for abutments and works in the coastal environment or stream environment to minimise rise of elevated in-stream turbidity;</p> <p style="margin-left: 40px;">C. Details of temporary staging platforms to be located in the Ngakoroa Stream and on embankments.</p> <p style="margin-left: 40px;">D. Details of how and where mangroves or other intertidal vegetation are removed;</p> <p style="margin-left: 40px;">E. Erosion and sedimentation controls specific to an estuarine environment to minimise runoff, turbidity, debris/dust and the exit velocity of any overland discharges into the Ngakoroa Stream and associated intertidal areas;</p> <p style="margin-left: 40px;">F. Methods to prevent debris from bridge deconstruction or other rubbish entering the Ngakoroa Stream;</p> <p style="margin-left: 40px;">G. Methods for managing construction materials and machinery so that no toxic materials, dust and sediments enter the Ngakoroa Stream, and no existing Mesh enters the stream and estuary; and</p> <p style="margin-left: 40px;">H. A Marine Mammal Plan if one is to be utilised under condition C.4.</p> <p style="margin-left: 20px;">(ii) Reinstatement work, including:</p> <p style="margin-left: 40px;">A. Details of proposed planting, in general accordance with the Papakura to Bombay Urban and Landscape Design Framework submitted with the Application and incorporating appropriate native vegetation in the riparian areas and MHWS zone within the works footprint;</p> <p style="margin-left: 40px;">B. Details of appropriate substrate and erosion protection materials in Ngakoroa Stream after declamation of the existing bridge abutments;</p> <p style="margin-left: 40px;">C. Means of reinstating works areas upon completion of Project works; and</p> <p style="margin-left: 40px;">D. Details of the removal or/cutting of all the piers from the existing bridge and remnant piers from previous bridges within the CMA and/or intertidal stream bed.</p>

CA.2	If temporary staging piles are required in the Ngakoroa Stream and/or on embankments, no temporary piles shall be located in the deeper part of the channel below the mean spring low-tide level, and any temporary pile groups are to be aligned with the stream flow direction (both incoming and outgoing tides) to minimise flow impedance.
CA.3	In the event that debris from bridge deconstruction or construction or other rubbish associated with the Project enters the Ngakoroa Stream, it shall be removed immediately.
CA.4	Impact or vibratory piling shall be carried out: <ul style="list-style-type: none"> (a) at either side of low tide (between half tide falling and half tide rising i.e. 3 hours either side of low tide) or; (b) in accordance with a Marine Mammal Plan with the use of trained marine mammal observers
CA.5	Removal of all the piers from the existing bridge and remnant piers from previous bridges shall be cut at or just above the existing seabed or streambed to minimise in-situ sediment disturbances.
CA.6	In the event of any significant scour or stream bank erosion that can be attributed to the temporary occupation of the Ngakoroa Stream, the Manager shall be notified, and the affected area shall be inspected as soon as practicable and within 24 hours to: <ul style="list-style-type: none"> (a) Determine whether there has been any significant adverse effect on ecological values; and (b) Recommend what measures could be taken to remedy the effect or avoid a further occurrence. <p>The recommended measures shall be discussed and agreed with the Manager, and the agreed measures implemented as soon as practicable to remedy the effect or to avoid a further occurrence.</p>
CA.7	All machinery shall be operated (including maintenance, lubrication and refuelling) so that no hazardous substances such as fuel, oil or similar contaminants are discharged into the estuarine environment. If any discharge occurs, work that has caused that effect shall cease immediately, and the discharge shall be mitigated and/or rectified to the satisfaction of the Manager.
CA.8	Within 40 days following the completion of the works, all construction materials and temporary staging shall be removed from the CMA, to the satisfaction of the Manager.
Permanent coastal occupation	
CA.9	The right to occupy part of the CMA shall be limited to the area of Jesmond Bridge as shown in the General Arrangement Drawings referred to in GC.1. <p>ADVICE NOTE:</p> <p>The Auckland Unitary Plan Operative in Part (Updated 12 March 2021) defines the CMA as <i>"the same meaning as in the Resource Management Act 1991 except where the line of mean high water springs crosses a river specified in Appendix 7 Coastal Marine Area boundaries, the landward boundary must be the point defined in the appendix."</i></p> <p>The CMA referred to in CA.9 only relates to the seaward (northern) side of Jesmond Bridge. The CMA boundary at Jesmond Bridge is illustrated on the Auckland Council Geomaps.</p>

Streamworks (ST)

Ref	Condition
Native Fish Relocation Plan	
ST.1	<ul style="list-style-type: none"> (a) A Native Fish Relocation Plan (NFRP) shall be prepared prior to the Start of Construction. (b) The objective of the NFRP is to detail how native fish will be salvaged prior to works commencing.

- (c) The NFRP shall be submitted to the Manager for certification at least 20 working days prior to streamworks commencing.
- (d) To achieve the objective, the NFRP shall include:
 - (i) Methodologies to capture or remove fish within the impacted streams habitats;
 - (ii) Fishing effort;
 - (iii) Details of the relocation site;
 - (iv) Storage and transport measures including prevention of predation and death during capture;
 - (v) Euthanasia methods for diseased or pest species; and
 - (vi) A requirement that any pumps used to dewater the streams shall contain a screen to prevent fish from entering the pump.

Coastal and Stream Works Reinstatement Management Plan

ST.2

- (a) A Coastal and Stream Works Reinstatement Management Plan (CSRMP) shall be prepared prior to the Start of Construction.
- (b) The objective of the CSRMP is to confirm the proposed construction methodologies for works in the CMA and stream environments and to set out the specific management procedures to be undertaken in order to manage potential adverse effects arising from those works.
- (c) The CSRMP shall be submitted to the Manager for certification at least 20 working days prior to the commencement of works within the CMA and/or stream and coastal environments of Ngakoroa Stream in the vicinity of Jesmond bridge.
- (d) To achieve the objective, the CSRMP shall include:
 - (i) Construction methodologies, including:
 - A. Plan(s) of the combined construction and reinstatement footprint adjacent to the coastal and/or stream environment, minimising the area required for access and works areas;
 - B. Details for the use of Clean Granular Fill Material for abutments and works in the coastal environment or stream environment to minimise rise of elevated in-stream turbidity;
 - C. Details of temporary staging platforms to be located in the Ngakoroa Stream and on embankments.
 - D. Details of how and where mangroves or other intertidal vegetation are removed;
 - E. Erosion and sedimentation controls specific to an estuarine environment to minimise runoff, turbidity, debris/dust and the exit velocity of any overland discharges into the Ngakoroa Stream and associated intertidal areas;
 - F. Methods to prevent debris from bridge deconstruction or other rubbish entering the Ngakoroa Stream; and
 - G. Methods for managing construction materials and machinery so that no toxic materials, dust and sediments enter the Ngakoroa Stream, and no existing Mesh enters the stream and estuary;
 - H. A Marine Mammal Plan if one is to be utilised under condition C.4.
 - (ii) Reinstatement work, including:
 - A. Details of proposed planting, in general accordance with the Papakura to Bombay Urban and Landscape Design Framework submitted with the Application and incorporating appropriate native vegetation in the riparian areas and MHWS zone within the works footprint;
 - B. Details of appropriate substrate and erosion protection materials in Ngakoroa Stream after declamation of the existing bridge abutments;

	<p>C. Means of reinstating works areas upon completion of Project works; and</p> <p>D. Details of the removal or/cutting of all the piers from the existing bridge and remnant piers from previous bridges within the CMA and/or intertidal stream bed.</p>
Work in progress	
ST.3	If temporary staging piles are required in the Ngakoroa Stream and/or on embankments, no temporary piles shall be located in the deeper part of the channel below the mean spring low-tide level, and any temporary pile groups are to be aligned with the stream flow direction (both incoming and outgoing tides) to minimise flow impedance.
ST.4	Impact or vibratory piling shall be carried out: <ul style="list-style-type: none"> (a) at either side of low tide (between half tide falling and half tide rising i.e. 3 hours either side of low tide) or; (b) in accordance with a Marine Mammal Plan with the use of trained marine mammal observers
ST.5	In the event that debris from bridge deconstruction or construction or other rubbish associated with the Project enters the Ngakoroa Stream, it shall be removed immediately.
ST.6	Removal of all the piers from the existing bridge and remnant piers from previous bridges shall be cut at or just above the existing seabed or streambed to minimise in-situ sediment disturbances.
ST.7	All machinery shall be operated (including maintenance, lubrication and refuelling) so that no hazardous substances such as fuel, oil or similar contaminants are discharged into the estuarine environment. If any discharge occurs, work that has caused that effect shall cease immediately, and the discharge shall be mitigated and/or rectified to the satisfaction of the Manager.
ST.8	In the event of any significant scour or stream bank erosion that can be attributed to the temporary occupation of the Ngakoroa Stream, the Manager shall be notified, and the affected area shall be inspected as soon as practicable and within 24 hours to: <ul style="list-style-type: none"> (a) Determine whether there has been any significant adverse effect on ecological values; and (b) Recommend what measures could be taken to remedy the effect or avoid a further occurrence. <p>The recommended measures shall be discussed and agreed with the Manager, and the agreed measures implemented as soon as practicable to remedy the effect or to avoid a further occurrence.</p>
ST.9	A Suitably Qualified Person shall carry out all native fish relocation and capture as per the certified NFRP and shall be on site during the dewatering and initial excavation of the aquatic habitat in order to relocate any native fish to a suitable and healthy stream habitat should they be found on site. <p>ADVICE NOTE:</p> <p><i>Permits may be required by the Ministry of Primary Industries or Department of Conservation to undertake the fish salvage and relocation proposed.</i></p>
ST.10	If fish salvage is carried out, the Manager shall be provided information within five days of completion of salvage regarding the relocation site, the species, and number of fish relocated prior to and during dewatering and initial excavation of the aquatic habitat.

Stormwater (SW)

Ref	Condition																																										
Pre-commencement meetings																																											
SW.1	<p>At least five working days prior to the start of works for stormwater devices onsite, a stormwater pre-commencement meeting shall be arranged with the Manager that:</p> <ul style="list-style-type: none"> (a) Is located on the Project site; (b) Includes timeframes for key stages authorised under this consent; (c) Includes the certified plans and drawings as set out in condition SW.4; (d) Includes the Manager or authorised delegate; and (e) Includes representation from the site stormwater engineer or contractors who will undertake the works and any other relevant parties. 																																										
Stormwater Management Works																																											
SW.2	<p>Stormwater management works in Table [1] shall be completed prior to continuous operation of further impervious surfaces in that catchment:</p> <p>Table [1]</p> <table border="1"> <thead> <tr> <th>Treatment Device/ID</th> <th>Motorway section (chainage CH)</th> <th>Catchment ID</th> <th>Total Impervious surface (ha) to be treated (new + existing) (approx.)</th> <th>Immediate receiving environment</th> <th>Design requirement</th> </tr> </thead> <tbody> <tr> <td>MTD-01</td> <td>SH1 8980 - 9510 (MC00)</td> <td>CA-1A</td> <td>1.24</td> <td>Pāhurehure Inlet</td> <td>Water quality treatment*</td> </tr> <tr> <td>Wetland 1 or Vegetated Treatment Swale</td> <td>230 – 450 (MCB0) 13640 – 13920 (MC00)</td> <td>CA-7</td> <td>2.2</td> <td>Ngākoroa Stream North of Jesmond Bridge (CMA)</td> <td>Water quality treatment**</td> </tr> <tr> <td>MTD-03</td> <td>40 – 230 (MCB0)</td> <td>CA-8</td> <td>0.470</td> <td>Ngākoroa Stream south of Jesmond Bridge (CMA)</td> <td>Water quality treatment*</td> </tr> <tr> <td>MTD-07</td> <td>Great South Road 230 – 530 (MCG0)</td> <td>CA-11A</td> <td>0.590</td> <td>Hingaia Stream at Karaka Reserve</td> <td>Water quality treatment*</td> </tr> <tr> <td>MTD-06</td> <td>Southbound off ramp 220 – 380 (MC31)</td> <td>CA-11B</td> <td>1.640</td> <td>Hingaia Stream at Karaka Reserve</td> <td>Water quality treatment*</td> </tr> <tr> <td>Wetland 2</td> <td>SH1 13920 – 14200 (MC00)</td> <td>CA-11C</td> <td>1.16</td> <td>Ngākoroa Stream at Drury Sports Complex</td> <td>Water quality treatment**</td> </tr> </tbody> </table>	Treatment Device/ID	Motorway section (chainage CH)	Catchment ID	Total Impervious surface (ha) to be treated (new + existing) (approx.)	Immediate receiving environment	Design requirement	MTD-01	SH1 8980 - 9510 (MC00)	CA-1A	1.24	Pāhurehure Inlet	Water quality treatment*	Wetland 1 or Vegetated Treatment Swale	230 – 450 (MCB0) 13640 – 13920 (MC00)	CA-7	2.2	Ngākoroa Stream North of Jesmond Bridge (CMA)	Water quality treatment**	MTD-03	40 – 230 (MCB0)	CA-8	0.470	Ngākoroa Stream south of Jesmond Bridge (CMA)	Water quality treatment*	MTD-07	Great South Road 230 – 530 (MCG0)	CA-11A	0.590	Hingaia Stream at Karaka Reserve	Water quality treatment*	MTD-06	Southbound off ramp 220 – 380 (MC31)	CA-11B	1.640	Hingaia Stream at Karaka Reserve	Water quality treatment*	Wetland 2	SH1 13920 – 14200 (MC00)	CA-11C	1.16	Ngākoroa Stream at Drury Sports Complex	Water quality treatment**
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Wetland 3	SH1 14200 – 14330 (MCG0)	CA-11D	0.37	Ngākoroa Stream at Drury Sports Complex	Water quality treatment**
Vegetated Treatment Swale	Great South Road 40 – 230 (MCG0)	CA-12A	0.23	Ngākoroa Stream	Water quality treatment**
MTD-08					Water quality treatment*
MTD -GPT	Great South Road 40 – 230 (MCG0)	CA-12B	0.59	Ngākoroa Stream	Gross pollutant removal
MTD-09	SH1 14330 – 15160 (MCG0)	CA-13	3.66	Hingaia Stream at 270 Flanagan Road	Water quality treatment*

ADVICE NOTE:

*For the purposes of this condition and subsequent certification, the manufactured treatment device selection should be in accordance with Appendix 1 Stormwater Specification Manufactured Treatment Device Radial Media Filled Filter Cartridge, prepared by Auckland System Management, dated 8 May 2020.

**Permanent stormwater treatment devices in Table [1] shall be designed in accordance with Council's Guideline Document 2017/001 Stormwater Management Devices in the Auckland Region (GD01).

SW.3	<p>In the event that any modifications to the stormwater management system in Table [1] are required, that will not otherwise result in an application pursuant to section 127 RMA, the following information shall be provided:</p> <p>(a) Plans and drawings outlining the details of the modification; and</p> <p>(b) Supporting information that details how the modification does not affect the capacity or treatment performance of the stormwater management system authorised by this consent.</p> <p>All information shall be submitted to the Manager for certification, at least 10 working days prior to implementation.</p> <p>ADVICE NOTE:</p> <p><i>All proposed changes must be discussed with the Manager, prior to implementation. Any changes to the proposal which will affect the capacity or treatment performance of the stormwater management system will require an application to Council pursuant to Section 127 of the RMA. An example of a minor modification can be a change to the location of a pipe or slight changes to the site layout. If there is a change of device type (even proprietary), the consent will have to be varied (s127 under the RMA).</i></p>
SW.4	<p>Detailed design, including drawings, specifications, design report and calculations for the stormwater management devices shall be submitted to the Manager for certification at least 20 working days prior to construction of the proposed stormwater management devices. The following information shall be included and not be limited to:</p> <p>(a) Design drawings and calculations for all stormwater structures including, culverts, outfalls, erosion protection measures, bypass devices, proprietary treatment devices, vegetated swales, wetlands, access provisions, and overland flow paths;</p> <p>(b) Catchment plans detailing the impervious and pervious areas contributing to each stormwater management device.</p> <p>The purpose of the certification is to confirm that the final design addresses the following:</p>

	<p>(c) Roading, kerbs and channels constructed across overland flow paths shall maximise the capture of water by road cesspits. Driveway crossings shall be constructed to minimise the overflow of water from the road into private properties; and</p> <p>(d) For stormwater flows in excess of the capacity of the primary drainage systems, overland flow paths shall be provided and maintained to allow surplus stormwater from critical storms (up to the 100-year Annual Recurrence Interval event), to discharge with the minimum of nuisance and damage.</p>
SW.5	<p>(a) A detailed planting plan for the vegetated swales and the wetland(s) shall be prepared in accordance with GD01 (or any amendments to this document), and submitted to the Manager for certification at least 20 working days prior to the construction of the proposed vegetated swales and wetland(s).</p> <p>(b) The planting plan(s) for all vegetated swales and wetlands shall include but not be limited to:</p> <ul style="list-style-type: none"> (i) Details of plant species, plant numbers, density and distribution; and (ii) Details of ongoing pest and weed management.
SW.6	Planting shall be undertaken in accordance with the certified planting plan.
SW.7	As-built certification and plans of the stormwater management works, which are certified (signed) as a true record of the stormwater management system, shall be provided to the Manager at least 20 working days prior to devices being made operational.
SW.8	<p>The as-built plans shall display the entirety of the stormwater management system and shall include:</p> <p>(a) The surveyed location (to the nearest 0.1m) and level (to the nearest 0.01m) of the discharge structures, with co-ordinates expressed in terms of Mt Eden Projection and New Zealand Vertical Datum 2016 (NZVD 16);</p> <p>(b) Plans and cross sections of all stormwater management devices, including confirmation of the water quality volume, storage volumes, and levels / sizes of all outflow control structures and discharge outlets; and.</p> <p>(c) Documentation of any discrepancies between the design plans and the as-built plans.</p>
Stormwater Operation and Maintenance Plan	
SW.9	<p>(a) A Stormwater Operation and Maintenance Plan (SOMP) shall be prepared upon completion of the construction of the permanent stormwater management system. The SOMP shall be reviewed and approved by the Network Operator prior to submitting to Council for information.</p> <p>(b) The objective of the SOMP is to maintain water quality and quantity control functions of the stormwater management devices to achieve the standards to which the devices were designed and constructed.</p> <p>(c) The SOMP shall include:</p> <ul style="list-style-type: none"> (i) Details of the person or organisation that will hold responsibility for long-term maintenance of the stormwater management system; (ii) A programme for regular inspection and maintenance of the stormwater management system, including outfalls and vegetation associated with the stormwater management devices; (iii) A programme for the collection and disposal of debris and sediment collected by the stormwater management devices; (iv) Methods to maintain all overland flow paths and secondary overland flow paths free from obstruction within the Waka Kotahi designations; (v) General inspection checklists for all aspects of the stormwater management system, including visual checks; and

	(vi) Procedures for post high intensity storm event, inspections and maintenance.
SW.10	The stormwater management system shall be managed in accordance with the SOMP.
SW.11	At least 20 working days prior to implementation, any amendments or alterations to the details within the Stormwater Operation and Maintenance Plan must be submitted to the Council in writing for information.

Groundwater (GW)

Ref	Condition
Notice of Commencement of Dewatering	
GW.1	The Manager shall be advised in writing at least 10 working days prior to the date of the Commencement of Dewatering.
Avoidance of Damage	
GW.2	All excavation, dewatering systems and retaining structures associated with the diversion or taking of groundwater, shall be designed, constructed and maintained so as to avoid damage to buildings, structures and services within the project area or adjacent properties. This applies unless otherwise agreed in writing with the asset owner.
Groundwater Monitoring	
GW.3	During construction, the Consent Holder shall implement procedures that will appropriately respond to the information received from the monitoring system identified in Section 5.1 and Appendix D of the Papakura to Drury South Stage 1B1 Groundwater Assessment dated 11/6/21, including assessment at each excavation stage of the actual retention and building response against the predictions determined from the detailed design.
Groundwater and Settlement Management Plan	
GW.3	<p><u>A Groundwater and Settlement Management Plan (GSMP) shall be prepared and submitted to the Manager for certification in accordance with the process set out in Condition PC.6 prior to Commencement of Construction of the new Bremner Road Bridge East Abutment Retaining Wall with potential groundwater and settlement effects. The objective of the GSMP is to outline the measures to be adopted to monitor and respond to any changes in groundwater beyond the boundary of the Project site arising from construction activities. The GSMP shall incorporate the matters in Conditions GW.4 to GW.8 including:</u></p> <p><u>a) Details of groundwater monitoring including:</u></p> <p><u>(i) A schedule of groundwater monitoring bores identifying piezometer depth and geological unit;</u></p> <p><u>(ii) Details of final bore construction and piezometer installation;</u></p> <p><u>(iii) The location of the groundwater monitoring bores;</u></p> <p><u>(iv) The methods and frequency of groundwater level monitoring;</u></p> <p><u>b) Details for ground settlement monitoring including:</u></p> <p><u>(i) The predicted total estimated settlement and building damage categories;</u></p> <p><u>(ii) A schedule of ground settlement monitoring markers confirmed in Condition GW.6;</u></p> <p><u>(iii) The methods and frequency of ground settlement monitoring;</u></p> <p><u>(iv) Alert and alarm levels where Alert is less than 75% of the theoretical movement expected to cause building damage and Alarm is less than 100% of the theoretical movement expected to cause building damage, with due consideration of the seasonal range of ground movement identified by pre-construction monitoring; and survey tolerances. Procedures to follow in the event of trigger levels being exceeded.</u></p> <p><u>c) Reporting requirements.</u></p>

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GW.4	<u>The Consent Holder shall monitor groundwater levels in the groundwater monitoring bores confirmed in Condition GW.3 and keep records of the water level measurement and corresponding date.</u>
GW.5	(a) <u>The Consent Holder shall install and maintain groundwater level monitoring boreholes for a period starting at least 1 month prior to Commencement of Construction and concluding no less than 6 months following Completion of Construction.</u> (b) <u>As a minimum the groundwater monitoring boreholes shall include sites:</u> (i) <u>51 Creek Street</u> (ii) <u>69 Creek Street</u>
GW.6	<u>The Consent Holder shall establish a series of ground settlement monitoring markers to monitor potential settlement in relation to the construction of the of the new Bremner Road Bridge East Abutment Retaining Wall. The survey markers shall be located generally as follows subject to agreement of the owners of land in which the survey markers are proposed to be located.</u> a) <u>On or around buildings at 51 Creek Street</u> b) <u>On or around buildings at 69 Creek Street</u> c) <u>The location of the markers shall be confirmed in the GSMP.</u> d) <u>The location of markers may be updated to reflect detailed analysis and interpretation of monitoring results as construction works progress. Any changes shall be included in the GSMP.</u>
GW.7	<u>The Consent Holder shall survey the settlement monitoring markers at the following frequency:</u> a) <u>At weekly intervals starting at least 1 month prior to excavation of the of the new Bremner Road Bridge East Abutment Retaining Wall;</u> b) <u>At monthly intervals following completion of excavation of the of the new Bremner Road Bridge East Abutment Retaining Wall for a period of 6 months. For the purpose of this condition, excavation of the new Bremner Road Bridge East Abutment Retaining Wall is complete when the permanent wall structural elements are in place.</u>
GW.8	<u>If the ground settlement alert or alarm levels in Condition GW.3(b)(iv) are exceeded, the trigger marker shall be resurveyed within 24 hours. If the resurvey indicates that a building has increased its damage category from that confirmed in the GSMP, then this shall be considered to be an Alert Level and additional specific assessment of the building shall be carried out by the Consent Holder to confirm this resurvey within 72 hours. If the additional assessment following resurvey confirms the increase in damage category, this shall be considered to be an Alarm Level and the property owner and occupier(s) will be notified within 48 hours. Following consultation with the property owner and occupier(s); subsequent actions may include increased frequency and/or extent of monitoring, modification to the construction methodology or mitigation works to the affected building (subject to building owner approval and any additional statutory approvals required).</u>
Contingency Actions	

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GW.94	<p><u>If the Consent Holder becomes aware of any Damage to buildings, structures or Services potentially caused wholly, or in part, by the exercise of this consent, the Consent Holder shall:</u></p> <p>(a) <u>Notify the Manager and the asset owner within two working days of the Consent Holder becoming aware of the Damage.</u></p> <p>(b) <u>Prepare a report prepared by a suitably qualified and experienced person that describes the Damage; identifies the cause of the Damage; identifies methods to remedy and/or mitigate the Damage that has been caused; identifies the potential for further Damage to occur, and, describes actions that will be taken to avoid further Damage.</u></p> <p>(c) <u>Provide a copy of the report prepared under (b) above, to the Manager and the asset owner within 10 working days of notification under (a) above.</u></p> <p>ADVICE NOTE: <u>It is anticipated the Consent Holder will seek the permission of the damaged asset owner to access the property and asset to enable the inspection/investigation. It is understood that if access is denied the report will be of limited extent. If the Consent Holder becomes aware of any Damage to buildings, structures or Services potentially caused wholly, or in part, by the exercise of this consent, the Consent Holder shall:</u></p> <p>(a) <u>Notify the Manager and the asset owner within two working days of the Consent Holder becoming aware of the Damage.</u></p> <p>(b) <u>Provide a report prepared by a suitably qualified and experienced person that describes the Damage; identifies the cause of the Damage; identifies methods to remedy and/or mitigate the Damage that has been caused; identifies the potential for further Damage to occur, and, describes actions that will be taken to avoid further Damage.</u></p> <p>(c) <u>Provide a copy of the report prepared under (b) above, to the Manager and the asset owner within 10 working days of notification under (a) above.</u></p> <p>ADVICE NOTE: <u>It is anticipated the Consent Holder will seek the permission of the damaged asset owner to access the property and asset to enable the inspection/investigation. It is understood that if access is denied the report will be of limited extent.</u></p>
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Ecology (EC)

Ref	Condition
Lizard Management Plan	
EC.1	<p><u>A Lizard Management Plan (LMP) shall be prepared and submitted to the Manager for certification at least 10 working days prior to the commencement of any vegetation works.</u></p> <p>a) <u>The LMP Plan shall be designed to achieve the following two objectives:</u></p> <p style="margin-left: 20px;">(i) <u>The population of each species of native lizard present on the site at which vegetation clearance is to occur must be maintained or enhanced, either on the same site or at an appropriate alternative site; and</u></p> <p style="margin-left: 20px;">(ii) <u>The habitat(s) that lizards are transferred to (either on site or at an alternative site, as the case may be) will support viable native lizard populations for all species present pre-development.</u></p>

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b) To achieve the objectives of the LMP the management plan shall address the following (as appropriate):

(i) Credentials and contact details of the ecologist/herpetologist who will implement the plan.

(ii) Timing of the implementation of the LMP.

(iii) A description of methodology for capture and relocation of lizards rescued including but not limited to: salvage protocols, relocation protocols (including method used to identify suitable relocation site(s)), diurnal capture protocols, supervised habitat clearance/transfer protocols, and opportunistic relocation protocols.

(iv) A description of the relocation site: including discussion of:

A. provision for additional refugia, if required e.g. depositing salvaged logs, wood or debris for newly released skinks that have been rescued;

B. any protection mechanisms (if required) to ensure the relocation site is maintained (e.g.) covenants, consent notices etc;

C. any weed and pest management to ensure the relocation site is maintained as appropriate habitat.

(v) Triggers for monitoring, monitoring methods and reporting, as necessary.

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Proposed Conditions – Alteration of Designation 6706

The purpose of the Designation 6706 is 'Motorway purposes between Auckland Hamilton'

In addition to the conditions below, the following also form part of this condition set:

- Definitions and explanations of terms

Ref	Condition
Standard conditions	
GC.1	<p>(a) Except as provided for in the conditions and subject to the final design, the Project shall be undertaken in general accordance with the following plans and information submitted with the Application dated [XXXX]:</p> <p>(i) <i>Assessment of Effects on the Environment</i> dated [XXXX], specifically Section 2.1 the Proposed Project Works Description and Section 2.2 Proposed Construction Methodology.</p> <p>(ii) The General Arrangement Drawings in Appendix F of the <i>Resource Consent and Notices of Requirement Application and Assessment of Effects on the Environment</i> dated [XXXX].</p> <p>(b) Where there may be an inconsistency between the documents listed in clause (a) above and the specific requirements of these conditions, these conditions shall prevail.</p> <p>(c) Where there is an inconsistency between the documents listed in clause (a), provided by the applicant as part of the resource consent and notices of requirement, the most recent plans and information prevail.</p>
Designation Review	
GC.2	<p>(a) As soon as practicable following Completion of Construction the Requiring Authority shall:</p> <p>(i) review the extent of the designation to identify any areas of designated land that it no longer requires for the on-going operation, maintenance or mitigation of effects of the Project; and</p> <p>(ii) give notice to the Council in accordance with section 182 of the RMA for the removal of those parts of the designation identified above.</p>
GC.3	The preparation of all plans and all actions required by these conditions shall be undertaken by a Suitably Qualified Person.
Outline Plan(s) of Works (designation)	
PC.3	<p>(a) An Outline Plan (or Plans) shall be prepared in accordance with section 176A of the RMA.</p> <p>(b) Outline Plan (or Plans) may be submitted in parts or in stages to address particular activities (e.g. design or construction aspects), or a Stage of Work of the Project.</p> <p>(c) Outline Plan (or Plans) shall include any management plan or plans that are relevant to the management of effects of those activities or Stage of Work, which may include:</p> <p>(i) Construction Noise and Vibration Management Plan (CNVMP); and</p> <p>(ii) Historic Heritage Management Plan (HHMP).</p>
PC.4	<p>(a) Following submission of the Outline Plan(s), the CNVMP and the HHMP may be amended if necessary, to reflect any changes in design, construction methods or management of effects. Any amendments to the plans are to be discussed with and submitted to the Manager for information without the need for a further Outline Plan process unless those amendments once implemented would result in a materially different outcome to that described in the original Outline Plan.</p> <p>(b) Where the CNVMP and HHMP was prepared in consultation with other parties, any material changes to that plan shall be prepared in consultation with those same parties.</p>
Stakeholder and Communications Management Plan	

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PC.8	<p>(a) A Stakeholder and Communications Management Plan (SCMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction.</p> <p>(b) The objective of the SCMP is to identify how the public and stakeholders (including directly affected and adjacent owners and occupiers of land) will be communicated with throughout the Construction Works.</p> <p>(c) To achieve the objective, the SCMP shall include:</p> <ul style="list-style-type: none"> (i) the contact details for the Project Liaison Person. These details shall be on the Project website, or equivalent virtual information source, and prominently displayed at the main entrance(s) to the site(s); (ii) the procedures for ensuring that there is a contact person available for the duration of Construction Works, for public enquiries or complaints about the Construction Works; (iii) methods for engaging with Mana Whenua, to be developed in consultation with Mana Whenua; (iv) a list of stakeholders, organisations, businesses and persons who will be communicated with; (v) methods to communicate the proposed hours of construction activities outside of normal working hours and on weekends and public holidays, to surrounding businesses and residential communities; (vi) linkages and cross-references to communication methods set out in other conditions and management plans where relevant. <p>(d) any SCMP prepared for a Stage of Work shall be submitted to the Manager for information ten working days prior to the Start of Construction for a Stage of Work.</p>
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Complaints Management Process

PC.9	<p>(a) At all times during Construction Works, a record of any complaints received about the Construction Works shall be maintained. The record shall include:</p> <ul style="list-style-type: none"> (i) The date, time and nature of the complaint; (ii) The name, phone number and address of the complainant (unless the complainant wishes to remain anonymous); (iii) The 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 quality, odour or noise and where weather conditions are relevant to the nature of the complaint; (iv) Measures taken to respond to the complaint or confirmation of no action if deemed appropriate (including a record of the response provided to the complainant) (v) The outcome of the investigation into the complaint; (vi) Any other activities in the area, unrelated to the Project that may have contributed to the complaint, such as non-project construction, fires, traffic accidents or unusually dusty conditions generally. (vii) A copy of the complaints register required by this condition shall be made available to the Manager upon request as soon as practicable after the request is made.
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PC.10	Complaints related to Construction Works shall be responded to as soon as reasonably practicable and as appropriate to the circumstances.
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General Construction

CC.2	A copy of the plans and these designation and resource consent conditions shall be kept either electronically or in hard copy on-site at all times that Enabling Works and Construction Works are being undertaken
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CC.3	All earthmoving machinery, pumps, generators and ancillary equipment must be operated in a manner that ensures spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery services and maintenance.
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Construction Environmental Management Plan

CC.4	<p>(a) A Construction Environmental Management Plan (CEMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction.</p> <p>(b) The objective of the CEMP is to set out the management procedures and construction methods to be undertaken to avoid, remedy or mitigate any adverse effects associated with Construction Works as far as practicable.</p> <p>(c) To achieve the objective, the CEMP shall include:</p> <ul style="list-style-type: none"> (i) the roles and responsibilities of staff and contractors; (ii) details of the site or Project manager and the Project Liaison Person, including their contact details (phone and email address); (iii) the Construction Works programmes and the staging approach, and the proposed hours of work; (iv) the proposed site layouts (including construction yards), locations of refuelling activities and construction lighting; (v) methods for controlling dust and the removal of debris and demolition of construction materials from public roads or places; (vi) methods for providing for the health and safety of the general public; (vii) measures to mitigate flood hazard effects such as siting stockpiles out of floodplains, minimising obstruction to flood flows, actions to respond to warnings of heavy rain; (viii) procedures for incident management; (ix) procedures for the refuelling and maintenance of plant and equipment to avoid discharges of fuels or lubricants to watercourses; (x) measures to address the storage of fuels, lubricants, hazardous and/or dangerous materials, along with contingency procedures to address emergency spill response(s) and clean up; (xi) procedures for responding to complaints about Construction Works; and (xii) methods for amending and updating the CEMP as required. <p>(d) Any CEMP prepared for a Stage of Work shall be submitted to the Manager for information at least ten working days before the Start of Construction for a Stage of Work.</p> <p>(e) The CEMP shall be prepared having regard to the Waka Kotahi Guideline for Preparing Environmental and Social Management Plans (April 2014), or any subsequent version.</p>
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CC.5	If the CEMP required by condition CC.4 is amended or updated, the revised CEMP shall be submitted to the Manager for information within five (5) working days of the update being made.
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Network Utility Management Plan

CC.6	<p>(a) A Network Utility Management Plan (NUMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction.</p> <p>(b) The objective of the NUMP is to set out a framework for protecting, relocating and working in proximity to existing network utilities.</p> <p>(c) To achieve the objective, the NUMP shall include methods to:</p> <ul style="list-style-type: none"> (i) Provide access for maintenance at all reasonable times, or emergency works at all times during construction activities;
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	<p>(ii) Manage the effects of dust and any other material potentially resulting from construction activities and able to cause material damage, beyond normal wear and tear to overhead transmission lines in the Project area;</p> <p>(d) The NUMP shall be prepared in consultation with the relevant Network Utility Operator(s) who have existing assets that are directly affected by the Project.</p> <p>(e) The NUMP shall describe how any comments from the Network Utility Operator in relation to its assets have been addressed.</p> <p>(f) Any comments received from the Network Utility Operator shall be considered when finalising the NUMP.</p> <p>(g) Any amendments to the NUMP related to the assets of a Network Utility Operator shall be prepared in consultation with that asset owner.</p>
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Transpower	
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CC.7	Temporary and permanent works in the vicinity of overhead transmission assets shall be designed and undertaken to comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances (NZECP 34:2001).
CC.8	Temporary and permanent works shall be designed to mitigate Earth Potential Rise (EPR) where the use of conductive materials for road infrastructure (e.g. metallic barriers, lighting, noise walls) or relocated network utilities are within 50m of the Bombay to Otahuhu A (BOB-OTA-A) 110kV and Huntly to Otahuhu A (HLY-OTA-A) 220kV transmission assets.
CC.9	Temporary and permanent works shall be designed so that the vertical clearance provided between the transmission line conductors and the finished road level of State Highway 1 (including approach roundabouts and on/off ramps) is a minimum of 9.5 metres for the BOB-OTA-A 110kV line and 10.5m for the HLY-OTA-A 220kV line.
CC.10	Temporary and permanent works shall be designed to maintain a comparable standard of access to the Bombay to Otahuhu A (BOB-OTA-A) 110kV and Huntly to Otahuhu A (HLY-OTA-A) 220kV transmission assets for maintenance at all reasonable times, and emergency works at all times.
CC.11	Proposed planting and ongoing maintenance of trees and vegetation in the vicinity of overhead transmission lines shall comply with the Electricity (Hazards from Trees) Regulations 2003.
CC.12	Species planted within 12m of the centreline of the National Grid transmission lines shall not exceed 2m in height. When planted, trees (at full maturity height) shall not be able to fall within 4m of a transmission line conductor at maximum swing.

Electricity Infrastructure Management Plan	
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CC.13	An Electrical Infrastructure Management Plan (EIMP) shall be prepared prior to the start of construction works within fifty metres of the transmission assets listed in Condition 15(ii) below. The EIMP shall be prepared in consultation with Transpower.
CC.14	The purpose of the EIMP is to set out the management procedures and construction methods to be undertaken so that works are safe and any potential adverse effects of works on Transpower assets are appropriately managed.
CC.15	<p>(a) To achieve the purpose, the EIMP shall include:</p> <p>(i) Roles and responsibilities of staff and contractors responsible for implementation of the EIMP.</p> <p>(ii) Drawings showing proposed works in the vicinity of, or directly affecting, the following transmission assets:</p> <p style="margin-left: 40px;">A. Bombay to Otahuhu A (BOB-OTA-A) 110kV</p> <p style="margin-left: 40px;">B. Huntly to Otahuhu A (HLY-OTA-A) 220kV</p> <p>(iii) Proposed staff and contractor training for those working near the transmission assets.</p> <p>(iv) Proposed methods to comply with Conditions CC.7 – CC.10 above;</p>

	<p>(v) Proposed methods to comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances 2001 (NZECP 34: 2001).</p> <p>(vi) Dispensations agreed with Transpower for any construction works that cannot meet New Zealand Electrical Code of Practice for Electrical Safe Distances 2001 (NZECP 34:2001).</p> <p>(vii) Proposed methods to:</p> <ul style="list-style-type: none"> A. Maintain access to the BOB-OTA-A 110kV and HLY-OTA-A 220kV transmission assets for maintenance at all reasonable times, and emergency works at all times; B. Delineate areas that are out of bounds during construction and areas within which additional management measures are required, such as fencing off, entry and exit hurdles, maximum height limits, or where a Transpower observer may be required; C. Manage the effects of dust (including any other material potentially resulting from construction activities able to cause material damage beyond normal wear and tear) on the transmission lines; D. Manage any changes to drainage patterns, runoff characteristics and stormwater to avoid adverse effects on foundations of any support structure; E. Manage construction activities that could result in ground vibrations and/or ground instability to avoid causing damage to transmission lines and support structures.
CC.16	The EIMP shall include confirmation that it has been reviewed and endorsed by Transpower and shall be submitted to Council for information.
CC.17	<p>Construction works shall not commence within fifty metres of the BOB-OTA-A 110kV and HLY-OTA-A 220kV transmission assets until the EIMP required by Condition CC.15 above has been completed and either:</p> <ul style="list-style-type: none"> (a) the Project has been designed to comply with Condition CC.7 – CC.10 above; or (b) the BOB-OTA-A 110kV and HLY-OTA-A 220kV transmission assets have been relocated or altered as agreed by Transpower.
CC.18	<p>Construction works shall be undertaken in accordance with the Electrical Infrastructure Management Plan prepared in accordance with Condition CC.15 above.</p> <p>ADVICE NOTE:</p> <p><i>Written notice should be provided to Transpower 10 working days before starting works within 50 metres of transmission assets. Written notice should be sent to:</i> transmission.corridor@transpower.co.nz</p>
Mana Whenua	
MW.1	<ul style="list-style-type: none"> (a) A Cultural Monitoring Plan shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction. The Cultural Monitoring Plan shall be prepared by a person identified in collaboration with Relevant Iwi Authorities. (b) The purpose of the Cultural Monitoring Plan is to set out the agreed cultural monitoring requirements and measures to be implemented during construction activities, to acknowledge the historic and living cultural values of the area to Mana Whenua and to minimise potential adverse effects on these values. (c) The Cultural Monitoring Plan shall include: <ul style="list-style-type: none"> (i) Requirements and protocols for cultural inductions for contractors and subcontractors; (ii) Identification of sites and areas where cultural monitoring is required during particular Construction Works; (iii) Identification of personnel nominated by the project Relevant Iwi Authorities to undertake cultural monitoring, including any geographic definition of their responsibilities; and

- (iv) Details of personnel nominated by the project Relevant Iwi Authorities to assist with management of any issues identified during cultural monitoring.

ADVICE NOTE:

For the purposes of the Project, RIAs are considered to be members of the Southern Iwi Integration Group.

Historic Heritage Management Plan

HH.1

- (i) A Historic Heritage Management Plan (HHMP) shall be submitted with the Outline Plan of Works. The HHMP shall be prepared in consultation with Council, HNZPT and Mana Whenua.
- (ii) The objective of the HHMP is to protect historic heritage and to remedy and mitigate any residual effects as far as practicable.
- (iii) To achieve the objective, the HHMP shall identify:
 - (iv) Specific areas to be investigated, monitored and recorded to the extent these are directly affected by the Project;
 - (v) Known archaeological sites and potential archaeological sites within the designation, including identifying any archaeological sites for which an Archaeological Authority under the HNZPTA will be sought or has been granted;
 - (vi) Methods for managing any unrecorded archaeological sites or post-1900 heritage sites within the designation, which shall also be documented and recorded;
 - (vii) Methods for identifying and assessing any known or potential built heritage sites within the designation including details of their condition and measures to mitigate any adverse effects in accordance with the HNZPTA guideline AGS 1A;
 - (viii) Roles, responsibilities and contact details of Project personnel, Mana Whenua representatives, and relevant agencies involved with heritage and archaeological matters including surveys, monitoring of Project works, compliance with AUP accidental discovery rule, and monitoring of conditions;
 - (ix) Provision for access for mana whenua to carry out tikanga and cultural protocols;
 - (x) Methods for protecting or minimising adverse effects on heritage and archaeological sites within the designation during Project works as far as practicable, (for example fencing around heritage and archaeological sites to protect them from damage during construction);
 - (xi) Protocols to manage accidental discovery of archaeological material as provided for under both the AUP and HNZPTA;
 - (xii) Measures for secure on-site storage and archiving of any archaeological materials;
 - (xiii) Training requirements for contractors and subcontractors on processes and procedures for heritage and archaeological sites within the designation, and legal obligations relating to finds and accidental discoveries (under both the AUP and HNZPTA); and
 - (xiv) Methods for appropriate public dissemination of knowledge gained from heritage investigations.

~~(xiv)~~(d) At the completion of the Historic heritage investigation component of the Project Works the Requiring Authority will provide confirmation from the Project Archaeologist to the Manager that all works have been completed in accordance with the requirements of the HHMP.

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Construction noise and vibration management plan

CNV.1

- (a) A Construction Noise and Vibration Management Plan (CNVMP) shall be prepared prior to the Start of Construction for a Stage of Work and submitted to the Manger for information.
- (b) A CNVMP shall be implemented during the Stage of Work to which it relates.
- (c) The objective of the CNVMP is to provide a framework for the development and implementation of the Best Practicable Option for the management of construction noise and

vibration effects to achieve the construction noise and vibration standards set out in Conditions CNV.2 and CN.3 to the extent practicable. To achieve this objective, the CNVMP shall be prepared in accordance with Annex E2 of the New Zealand Standard NZS6803:1999 'Acoustics – Construction Noise' (NZS6803:1999) and the Waka Kotahi State highway construction and maintenance noise and vibration guide (version 1.1, 2019), and shall as a minimum, address the following:

- (i) description of the works and anticipated equipment/processes;
- (ii) hours of operation, including times and days when construction activities would occur;
- (iii) the construction noise and vibration standards for the Project;
- (iv) identification of receivers where noise and vibration standards apply;
- (v) management and mitigation options, and identification of the Best Practicable Option;
- (vi) methods and frequency for monitoring and reporting on construction noise and vibration;
- (vii) procedures for communication and engagement with nearby residents and stakeholders, including notification of proposed construction activities, the period of construction activities, and management of noise and vibration complaints;
- (viii) contact details of the Project Liaison Person;
- (ix) procedures for the regular training of the operators of construction equipment to minimise noise and vibration as well as expected construction site behaviours for all workers;
- (x) identification of areas where compliance with the noise [Condition CNV.2] and/or vibration standards [Condition CNV.3] Category A or Category B will not be practicable and the specific management controls to be implemented and consultation requirements with owners and occupiers of affected sites;
- (xi) procedures and requirements for the preparation of a Schedule to the CNVMP (Schedule) for those areas where compliance with the noise [Condition CNV.2] and/or vibration standards [Condition CNV.3] Category A or Category B will not be practicable and where sufficient information is not available at the time of the CNVMP to determine the area specific management controls [Condition CNV.1(c)(x)];
- (xii) procedures and trigger levels for undertaking building condition surveys before and after works to determine whether any cosmetic or structural damage has occurred as a result of construction vibration;
- (xiii) methodology and programme of desktop and field audits and inspections to be undertaken to ensure that CNVMP, Schedules and the best practicable option for management of effects are being implemented; and
- (xiv) requirements for review and update of the CNVMP.

Noise Criteria

CNV.2

Construction noise from the Project shall be measured and assessed in accordance with the NZS 6803:1999 and shall, as far as practicable, comply with the following criteria:

Day of week	Time	dB LAeq(15min)	dB LAmax
Buildings containing activities sensitive to noise			
Weekdays	0630 – 0730	60	75
	0730 – 1800	75	90
	1800 – 2000	70	85
	2000 – 0630	45	75
Saturdays	0630 – 0730	45	75
	0730 – 1800	75	90

Sundays and Public Holidays	1800 – 2000	45	75
	2000 – 0630	45	75
	0630 – 0730	45	75
	0730 – 1800	55	85
	1800 – 2000	45	75
	2000 – 0630	45	75
Other occupied buildings			
All days	0730 - 1800	75	n/a
	1800 - 0730	80	n/a

Vibration Criteria

CNV.3

- (a) Construction vibration shall be measured in accordance with ISO 4866:2010 Mechanical vibration and shock – Vibration of fixed structures – Guidelines for the measurement of vibrations and evaluation of their effects on structures and shall comply with the vibration standards set out in the following table as far as practicable.

Table CNV.1 Construction vibration criteria

Receiver	Details	Category A	Category B
Occupied Activities sensitive to noise	Night-time 2000h - 0630h	0.3mm/s ppv	1mm/s ppv
	Daytime 0630h - 2000h	1mm/s ppv	5mm/s ppv
Other occupied buildings	Daytime 0630h - 2000h	2mm/s ppv	5mm/s ppv
All other buildings	At all other times Vibration transient	5mm/s ppv	BS 5228-2* Table B2
	At all other times Vibration continuous	5mm/s ppv	BS 5228-2* 50% of Table B2 values

*BS 5228-2:2009 'Code of practice for noise and vibration control on construction and open sites – Part 2: Vibration'

- (b) Where compliance with the vibration standards set out in Table CNV.1 is not practicable, and unless otherwise provided for in the CNVMP, then the methodology in Condition CNV.4 shall apply.
- (c) If measured or predicted vibration from construction activities exceeds the Category A criteria, construction vibration shall be assessed and managed during those activities.
- (d) If measured or predicted vibration from construction activities exceeds the Category B criteria those activities must only proceed if vibration effects on affected buildings are assessed, monitored and mitigated.

CNV.4

- (a) Unless otherwise provided for in a CNVMP, a Schedule to the CNVMP (Schedule) shall be prepared, in consultation with the owners and occupiers of sites subject to the Schedule to the CNVMP, when:
- construction noise is either predicted or measured to exceed the noise standards in Condition CNV.2;
 - construction vibration is either predicted or measured to exceed the Category A standard at the receivers in Condition CNV.3.

- (b) The objective of the Schedule is to set out the Best Practicable Option for the management of noise and/or vibration effects of the construction activity beyond those measures set out in the CNVMP. The Schedule shall include details such as:
 - (i) construction activity location, start and finish times;
 - (ii) the nearest neighbours to the construction activity;
 - (iii) the predicted noise and/or vibration level for all receivers where the levels are predicted or measured to exceed the applicable standards in Conditions CNV.2 and CNV.3;
 - (iv) the proposed mitigation;
 - (v) the proposed communication with neighbours; and
 - (vi) location, times and types of monitoring.
- (c) The Schedule shall be submitted to the Manager for information at least 5 working days, except in unforeseen circumstances, in advance of Construction Works that are covered by the scope of the Schedule and shall form part of the CNVMP.

Construction traffic management plan

- CT.1**
- a) A Construction Traffic Management Plan (CTMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction. The CTMP shall be prepared in consultation with Auckland Transport (including Auckland Transport Metro) and KiwiRail. The outcome of consultation undertaken between the Requiring Authority and Auckland Transport shall be documented including any Auckland Transport comments not incorporated within the final CTMP submitted to the Manager.
 - b) The objective of the CTMP is to avoid, remedy or mitigate, as far as practicable, adverse construction traffic effects.
 - c) To achieve this objective, the CTMP shall include:
 - (i) methods to manage the effects of temporary traffic management activities on traffic capacity and movements, in consultation with Auckland Transport ;
 - (ii) measures to manage the safety of all transport users;
 - (iii) the estimated numbers, frequencies, routes and timing of traffic movements, including any specific non-working or non-movement hours to manage vehicular and pedestrian traffic near schools or to manage traffic congestion;
 - (iv) site access routes and access points for heavy vehicles, the size and location of parking areas for plant, construction vehicles and the vehicles of workers and visitors;
 - (v) methods to manage any road closures that will be required and the nature and duration of any traffic management measures such as the identification of detour routes, temporary restrictions, or diversions and other methods for the safe management and maintenance of traffic flows, including general traffic, buses (including along Park Estate Road and Bremner Road), pedestrians and cyclists, on existing roads. Such access shall be safe, clearly identifiable and seek to minimise significant detours;
 - (vi) methods to maintain pedestrian and/or vehicle access to private property and/or private roads where practicable, or to provide alternative access arrangements when it will not be;
 - (vii) the management approach to loads on heavy vehicles, including covering loads of fine material, the use of wheel-wash facilities at site exit points and the timely removal of any material deposited or spilled on public roads;
 - (viii) methods that will be undertaken to communicate traffic management measures to affected road users (e.g. residents/public/stakeholders/emergency services);
 - (ix) Auditing, monitoring and reporting requirements relating to traffic management activities shall be undertaken in accordance with Waka Kotahi's Code of Practice for Temporary Traffic Management;
 - (x) Methods to manage the availability of on-street and off-street parking if the designated site is unable to accommodate all contractor parking. This shall include an assessment

of available parking (if any) for contractors on street and identify measures to meet and/or reduce contractor parking demand for on-street parking to meet this demand;

(xi) Methods for recognising and providing for the on-going operation of Auckland Transport managed passenger transport services;

~~(*)~~(xii) Methods to maintain the functional operational and recreational access to any Auckland Council Park land during construction where practicable.

d) Any CTMP prepared for a Stage of Work shall be prepared in consultation with Auckland Transport and submitted to the Manager for information 10 working days prior to the Start of Construction for a Stage of Work.

ADVICE NOTE:

Where construction activities may affect the local road network, separate approval will be required from Auckland Transport (as the road controlling authority). The approval will likely include a Corridor Access Request and accompanying Traffic Management Plan.

Urban Design and Landscape Framework

LV.1	Project planting shall have been fully implemented by the completion of the first planting season following the completion of Project works.
LV.2	Any project planting that fails to establish, or that decline or die within 2 years, must be replaced to the satisfaction of the Manager. The replacement trees must be of similar grade and size to that originally planted.

Arboricultural

AB.1	All works within the protected root zone of trees to be retained shall be supervised. Works within the protected root zone shall be undertaken as set out in the Arboricultural Assessment prepared by Peers Brown Miller Limited, dated September 2020.
AB.2	There shall be no storage (or temporary storage) of materials, machinery and equipment within the protected root zone of any protected tree.

Proposed Conditions – Designation (Shared User Path)

The purpose of the Designation is 'Designation for the construction, operation, and maintenance of a shared path and associated infrastructure.'

In addition to the conditions below, the following also form part of this condition set:

- Definitions and explanations of terms

Ref	Condition
Standard conditions	
GC.1	<p>(a) Except as provided for in the conditions and subject to the final design, the Project shall be undertaken in general accordance with the following plans and information submitted with the Application dated [XXXX]:</p> <p>(i) <i>Assessment of Effects on the Environment</i> dated [XXXX], specifically Section 2.1 the Proposed Project Works Description and Section 2.2 Proposed Construction Methodology.</p> <p>(ii) The General Arrangement Drawings in Appendix F of the <i>Resource Consent and Notices of Requirement Application and Assessment of Effects on the Environment</i> dated [XXXX].</p> <p>(b) Where there may be an inconsistency between the documents listed in clause (a) above and the specific requirements of these conditions, these conditions shall prevail.</p> <p>(c) Where there is an inconsistency between the documents listed in clause (a), provided by the applicant as part of the resource consent and notices of requirement, the most recent plans and information prevail.</p>
Designation Review	
GC.2	<p>(a) As soon as practicable following Completion of Construction the Requiring Authority shall:</p> <p>(i) review the extent of the designation to identify any areas of designated land that it no longer requires for the on-going operation, maintenance or mitigation of effects of the Project; and</p> <p>(ii) give notice to the Council in accordance with section 182 of the RMA for the removal of those parts of the designation identified above.</p>
GC.3	The preparation of all plans and all actions required by these conditions shall be undertaken by a Suitably Qualified Person.
Designation lapse	
GC.4	In accordance with clause 37(7) of Schedule 6 to the COVID-19 Recovery (Fast-track Consenting) Act 2020, the designation shall lapse if not given effect to within 2 years from which it is included in the AUP.
Outline Plan(s) of Works (designation)	
PC.3	<p>(a) An Outline Plan (or Plans) shall be prepared in accordance with section 176A of the RMA.</p> <p>(b) Outline Plan (or Plans) may be submitted in parts or in stages to address particular activities (e.g. design or construction aspects), or a Stage of Work of the Project.</p> <p>(c) Outline Plan (or Plans) shall include any management plan or plans that are relevant to the management of effects of those activities or Stage of Work, which may include:</p> <p>(i) Construction Noise and Vibration Management Plan (CNVMP); and</p> <p>(ii) Historic Heritage Management Plan (HHMP).</p>
PC.4	<p>(a) Following submission of the Outline Plan(s), the CNVMP and the HHMP may be amended if necessary, to reflect any changes in design, construction methods or management of effects. Any amendments to the plans are to be discussed with and submitted to the Manager for information without the need for a further Outline Plan process unless those amendments once implemented would result in a materially different outcome to that described in the original Outline Plan.</p>

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(b) Where the CNVMP and HHMP was prepared in consultation with other parties, any material changes to that plan shall be prepared in consultation with those same parties.

Stakeholder and Communications Management Plan

PC.8

(a) A Stakeholder and Communications Management Plan (SCMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction.

(b) The objective of the SCMP is to identify how the public and stakeholders (including directly affected and adjacent owners and occupiers of land) will be communicated with throughout the Construction Works.

(c) To achieve the objective, the SCMP shall include:

- (i) the contact details for the Project Liaison Person. These details shall be on the Project website, or equivalent virtual information source, and prominently displayed at the main entrance(s) to the site(s);
- (ii) the procedures for ensuring that there is a contact person available for the duration of Construction Works, for public enquiries or complaints about the Construction Works;
- (iii) methods for engaging with Mana Whenua, to be developed in consultation with Mana Whenua;
- (iv) a list of stakeholders, organisations, businesses and persons who will be communicated with;
- (v) methods to communicate the proposed hours of construction activities outside of normal working hours and on weekends and public holidays, to surrounding businesses and residential communities;
- (vi) linkages and cross-references to communication methods set out in other conditions and management plans where relevant.

(d) any SCMP prepared for a Stage of Work shall be submitted to the Manager for information ten working days prior to the Start of Construction for a Stage of Work.

Complaints Management Process

PC.9

(a) At all times during Construction Works, a record of any complaints received about the Construction Works shall be maintained. The record shall include:

- (i) The date, time and nature of the complaint;
- (ii) The name, phone number and address of the complainant (unless the complainant wishes to remain anonymous);
- (iii) The 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 quality, odour or noise and where weather conditions are relevant to the nature of the complaint;
- (iv) Measures taken to respond to the complaint or confirmation of no action if deemed appropriate (including a record of the response provided to the complainant)
- (v) The outcome of the investigation into the complaint;
- (vi) Any other activities in the area, unrelated to the Project that may have contributed to the complaint, such as non-project construction, fires, traffic accidents or unusually dusty conditions generally.
- (vii) A copy of the complaints register required by this condition shall be made available to the Manager upon request as soon as practicable after the request is made.

PC.10 Complaints related to Construction Works shall be responded to as soon as reasonably practicable and as appropriate to the circumstances.

General Construction

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CC.2	A copy of the plans and these designation and resource consent conditions shall be kept either electronically or in hard copy on-site at all times that Enabling Works and Construction Works are being undertaken
CC.3	All earthmoving machinery, pumps, generators and ancillary equipment must be operated in a manner that ensures spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery services and maintenance.

Construction Environmental Management Plan

CC.4	<p>(a) A Construction Environmental Management Plan (CEMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction.</p> <p>(b) The objective of the CEMP is to set out the management procedures and construction methods to be undertaken to avoid, remedy or mitigate any adverse effects associated with Construction Works as far as practicable.</p> <p>(c) To achieve the objective, the CEMP shall include:</p> <ul style="list-style-type: none"> (i) the roles and responsibilities of staff and contractors; (ii) details of the site or Project manager and the Project Liaison Person, including their contact details (phone and email address); (iii) the Construction Works programmes and the staging approach, and the proposed hours of work; (iv) the proposed site layouts (including construction yards), locations of refuelling activities and construction lighting; (v) methods for controlling dust and the removal of debris and demolition of construction materials from public roads or places; (vi) methods for providing for the health and safety of the general public; (vii) measures to mitigate flood hazard effects such as siting stockpiles out of floodplains, minimising obstruction to flood flows, actions to respond to warnings of heavy rain; (viii) procedures for incident management; (ix) procedures for the refuelling and maintenance of plant and equipment to avoid discharges of fuels or lubricants to watercourses; (x) measures to address the storage of fuels, lubricants, hazardous and/or dangerous materials, along with contingency procedures to address emergency spill response(s) and clean up; (xi) procedures for responding to complaints about Construction Works; and (xii) methods for amending and updating the CEMP as required. <p>(d) Any CEMP prepared for a Stage of Work shall be submitted to the Manager for information at least ten working days before the Start of Construction for a Stage of Work. The CEMP shall be prepared having regard to the Waka Kotahi Guideline for Preparing Environmental and Social Management Plans (April 2014), or any subsequent version.</p>
CC.5	If the CEMP required by condition CC.4 is amended or updated, the revised CEMP shall be submitted to the Manager for information within five (5) working days of the update being made.

Network Utility Management Plan

CC.6	<p>(a) A Network Utility Management Plan (NUMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction.</p> <p>(b) The objective of the NUMP is to set out a framework for protecting, relocating and working in proximity to existing network utilities.</p> <p>(c) To achieve the objective, the NUMP shall include methods to:</p>
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	<p>(i) Provide access for maintenance at all reasonable times, or emergency works at all times during construction activities;</p> <p>(ii) Manage the effects of dust and any other material potentially resulting from construction activities and able to cause material damage, beyond normal wear and tear to overhead transmission lines in the Project area;</p> <p>(d) The NUMP shall be prepared in consultation with the relevant Network Utility Operator(s) who have existing assets that are directly affected by the Project.</p> <p>(e) The NUMP shall describe how any comments from the Network Utility Operator in relation to its assets have been addressed.</p> <p>(f) Any comments received from the Network Utility Operator shall be considered when finalising the NUMP.</p> <p>(g) Any amendments to the NUMP related to the assets of a Network Utility Operator shall be prepared in consultation with that asset owner.</p>
Transpower	
CC.7	Temporary and permanent works in the vicinity of overhead transmission assets shall be designed and undertaken to comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances (NZECP 34:2001).
CC.8	Temporary and permanent works shall be designed to mitigate Earth Potential Rise (EPR) where the use of conductive materials for road infrastructure (e.g. metallic barriers, lighting, noise walls) or relocated network utilities are within 50m of the Bombay to Otahuhu A (BOB-OTA-A) 110kV and Huntly to Otahuhu A (HLY-OTA-A) 220kV transmission assets.
CC.9	Temporary and permanent works shall be designed so that the vertical clearance provided between the transmission line conductors and the finished road level of State Highway 1 (including approach roundabouts and on/off ramps) is a minimum of 9.5 metres for the BOB-OTA-A 110kV line and 10.5m for the HLY-OTA-A 220kV line.
CC.10	Temporary and permanent works shall be designed to maintain a comparable standard of access to the Bombay to Otahuhu A (BOB-OTA-A) 110kV and Huntly to Otahuhu A (HLY-OTA-A) 220kV transmission assets for maintenance at all reasonable times, and emergency works at all times.
CC.11	Proposed planting and ongoing maintenance of trees and vegetation in the vicinity of overhead transmission lines shall comply with the Electricity (Hazards from Trees) Regulations 2003.
CC.12	Species planted within 12m of the centreline of the National Grid transmission lines shall not exceed 2m in height. When planted, trees (at full maturity height) shall not be able to fall within 4m of a transmission line conductor at maximum swing.
Electricity Infrastructure Management Plan	
CC.13	An Electrical Infrastructure Management Plan (EIMP) shall be prepared prior to the start of construction works within fifty metres of the transmission assets listed in Condition 15(ii) below. The EIMP shall be prepared in consultation with Transpower.
CC.14	The purpose of the EIMP is to set out the management procedures and construction methods to be undertaken so that works are safe and any potential adverse effects of works on Transpower assets are appropriately managed.

CC.15	<p>(a) To achieve the purpose, the EIMP shall include:</p> <ul style="list-style-type: none"> (i) Roles and responsibilities of staff and contractors responsible for implementation of the EIMP. (ii) Drawings showing proposed works in the vicinity of, or directly affecting, the following transmission assets: <ul style="list-style-type: none"> A. Bombay to Otahuhu A (BOB-OTA-A) 110kV B. Huntly to Otahuhu A (HLY-OTA-A) 220kV (iii) Proposed staff and contractor training for those working near the transmission assets. (iv) Proposed methods to comply with Conditions CC.7 – CC.10 above; (v) Proposed methods to comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances 2001 (NZECP 34: 2001). (vi) Dispensations agreed with Transpower for any construction works that cannot meet New Zealand Electrical Code of Practice for Electrical Safe Distances 2001 (NZECP 34:2001). (vii) Proposed methods to: <ul style="list-style-type: none"> A. Maintain access to the BOB-OTA-A 110kV and HLY-OTA-A 220kV transmission assets for maintenance at all reasonable times, and emergency works at all times; B. Delineate areas that are out of bounds during construction and areas within which additional management measures are required, such as fencing off, entry and exit hurdles, maximum height limits, or where a Transpower observer may be required; C. Manage the effects of dust (including any other material potentially resulting from construction activities able to cause material damage beyond normal wear and tear) on the transmission lines; D. Manage any changes to drainage patterns, runoff characteristics and stormwater to avoid adverse effects on foundations of any support structure; E. Manage construction activities that could result in ground vibrations and/or ground instability to avoid causing damage to transmission lines and support structures.
CC.16	<p>The EIMP shall include confirmation that it has been reviewed and endorsed by Transpower and shall be submitted to Council for information.</p>
CC.17	<p>Construction works shall not commence within fifty metres of the BOB-OTA-A 110kV and HLY-OTA-A 220kV transmission assets until the EIMP required by Condition CC.15 above has been completed and either:</p> <ul style="list-style-type: none"> (a) the Project has been designed to comply with Condition CC.7 – CC.10 above; or (b) the BOB-OTA-A 110kV and HLY-OTA-A 220kV transmission assets have been relocated or altered as agreed by Transpower.
CC.18	<p>Construction works shall be undertaken in accordance with the Electrical Infrastructure Management Plan prepared in accordance with Condition CC.15 above.</p> <p>ADVICE NOTE:</p> <p><i>Written notice should be provided to Transpower 10 working days before starting works within 50 metres of transmission assets. Written notice should be sent to:</i></p> <p>transmission.corridor@transpower.co.nz</p>
Mana Whenua	
MW.1	<ul style="list-style-type: none"> (a) A Cultural Monitoring Plan shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction. The Cultural Monitoring Plan shall be prepared by a person identified in collaboration with Relevant Iwi Authorities. (b) The purpose of the Cultural Monitoring Plan is to set out the agreed cultural monitoring requirements and measures to be implemented during construction activities, to acknowledge

the historic and living cultural values of the area to Mana Whenua and to minimise potential adverse effects on these values.

(c) The Cultural Monitoring Plan shall include:

- (i) Requirements and protocols for cultural inductions for contractors and subcontractors;
- (ii) Identification of sites and areas where cultural monitoring is required during particular Construction Works;
- (iii) Identification of personnel nominated by the project Relevant Iwi Authorities to undertake cultural monitoring, including any geographic definition of their responsibilities; and
- (iv) Details of personnel nominated by the project Relevant Iwi Authorities to assist with management of any issues identified during cultural monitoring.

ADVICE NOTE:

For the purposes of the Project, RIAs are considered to be members of the Southern Iwi Integration Group.

Historic Heritage Management Plan

HH.1

- (i) A Historic Heritage Management Plan (HHMP) shall be submitted with the Outline Plan of Works. The HHMP shall be prepared in consultation with Council, HNZPT and Mana Whenua.
- (ii) The objective of the HHMP is to protect historic heritage and to remedy and mitigate any residual effects as far as practicable.
- (iii) To achieve the objective, the HHMP shall identify:
- (iv) Specific areas to be investigated, monitored and recorded to the extent these are directly affected by the Project;
- (v) Known archaeological sites and potential archaeological sites within the designation, including identifying any archaeological sites for which an Archaeological Authority under the HNZPTA will be sought or has been granted;
- (vi) Methods for managing any unrecorded archaeological sites or post-1900 heritage sites within the designation, which shall also be documented and recorded;
- (vii) Methods for identifying and assessing any known or potential built heritage sites within the designation including details of their condition and measures to mitigate any adverse effects in accordance with the HNZPTA guideline AGS 1A;
- (viii) Roles, responsibilities and contact details of Project personnel, Mana Whenua representatives, and relevant agencies involved with heritage and archaeological matters including surveys, monitoring of Project works, compliance with AUP accidental discovery rule, and monitoring of conditions;
- (ix) Provision for access for mana whenua to carry out tikanga and cultural protocols;
- (x) Methods for protecting or minimising adverse effects on heritage and archaeological sites within the designation during Project works as far as practicable, (for example fencing around heritage and archaeological sites to protect them from damage during construction);
- (xi) Protocols to manage accidental discovery of archaeological material as provided for under both the AUP and HNZPTA;
- (xii) Measures for secure on-site storage and archiving of any archaeological materials;
- (xiii) Training requirements for contractors and subcontractors on processes and procedures for heritage and archaeological sites within the designation, and legal obligations relating to finds and accidental discoveries (under both the AUP and HNZPTA); and
- (xiv) Methods for appropriate public dissemination of knowledge gained from heritage investigations.

~~(xiv)~~(d) At the completion of the Historic heritage investigation component of the Project Works the Requiring Authority will provide confirmation from the Project Archaeologist to the Manager that all works have been completed in accordance with the requirements of the HHMP.

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Construction noise and vibration management plan

CNV.1

- (a) A Construction Noise and Vibration Management Plan (CNVMP) shall be prepared prior to the Start of Construction for a Stage of Work and submitted to the Manger for information.
- (b) A CNVMP shall be implemented during the Stage of Work to which it relates.
- (c) The objective of the CNVMP is to provide a framework for the development and implementation of the Best Practicable Option for the management of construction noise and vibration effects to achieve the construction noise and vibration standards set out in Conditions CNV.2 and CN.3 to the extent practicable. To achieve this objective, the CNVMP shall be prepared in accordance with Annex E2 of the New Zealand Standard NZS6803:1999 'Acoustics – Construction Noise' (NZS6803:1999) and the Waka Kotahi State highway construction and maintenance noise and vibration guide (version 1.1, 2019), and shall as a minimum, address the following:
 - (i) description of the works and anticipated equipment/processes;
 - (ii) hours of operation, including times and days when construction activities would occur;
 - (iii) the construction noise and vibration standards for the Project;
 - (iv) identification of receivers where noise and vibration standards apply;
 - (v) management and mitigation options, and identification of the Best Practicable Option;
 - (vi) methods and frequency for monitoring and reporting on construction noise and vibration;
 - (vii) procedures for communication and engagement with nearby residents and stakeholders, including notification of proposed construction activities, the period of construction activities, and management of noise and vibration complaints;
 - (viii) contact details of the Project Liaison Person;
 - (ix) procedures for the regular training of the operators of construction equipment to minimise noise and vibration as well as expected construction site behaviours for all workers;
 - (x) identification of areas where compliance with the noise [Condition CNV.2] and/or vibration standards [Condition CNV.3] Category A or Category B will not be practicable and the specific management controls to be implemented and consultation requirements with owners and occupiers of affected sites;
 - (xi) procedures and requirements for the preparation of a Schedule to the CNVMP (Schedule) for those areas where compliance with the noise [Condition CNV.2] and/or vibration standards [Condition CNV.3] Category A or Category B will not be practicable and where sufficient information is not available at the time of the CNVMP to determine the area specific management controls [Condition CNV.1(c)(x)];
 - (xii) procedures and trigger levels for undertaking building condition surveys before and after works to determine whether any cosmetic or structural damage has occurred as a result of construction vibration;
 - (xiii) methodology and programme of desktop and field audits and inspections to be undertaken to ensure that CNVMP, Schedules and the best practicable option for management of effects are being implemented; and
 - (xiv) requirements for review and update of the CNVMP.

Noise Criteria

CNV.2

Construction noise from the Project shall be measured and assessed in accordance with the NZS 6803:1999 and shall, as far as practicable, comply with the following criteria:

Day of week	Time	dB LAeq(15min)	dB LAmax
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Buildings containing activities sensitive to noise			
Weekdays	0630 – 0730	60	75
	0730 – 1800	75	90
	1800 – 2000	70	85
	2000 – 0630	45	75
Saturdays	0630 – 0730	45	75
	0730 – 1800	75	90
	1800 – 2000	45	75
	2000 – 0630	45	75
Sundays and Public Holidays	0630 – 0730	45	75
	0730 – 1800	55	85
	1800 – 2000	45	75
	2000 – 0630	45	75
Other occupied buildings			
All days	0730 - 1800	75	n/a
	1800 - 0730	80	n/a

Vibration Criteria

CNV.3

- (a) Construction vibration shall be measured in accordance with ISO 4866:2010 Mechanical vibration and shock – Vibration of fixed structures – Guidelines for the measurement of vibrations and evaluation of their effects on structures and shall comply with the vibration standards set out in the following table as far as practicable.

Table CNV.1 Construction vibration criteria

Receiver	Details	Category A	Category B
Occupied Activities sensitive to noise	Night-time 2000h - 0630h	0.3mm/s ppv	1mm/s ppv
	Daytime 0630h - 2000h	1mm/s ppv	5mm/s ppv
Other occupied buildings	Daytime 0630h - 2000h	2mm/s ppv	5mm/s ppv
All other buildings	At all other times Vibration transient	5mm/s ppv	BS 5228-2* Table B2
	At all other times Vibration continuous	5mm/s ppv	BS 5228-2* 50% of Table B2 values

*BS 5228-2:2009 'Code of practice for noise and vibration control on construction and open sites – Part 2: Vibration'

- (b) Where compliance with the vibration standards set out in Table CNV.1 is not practicable, and unless otherwise provided for in the CNVMP, then the methodology in Condition CNV.4 shall apply.
- (c) If measured or predicted vibration from construction activities exceeds the Category A criteria, construction vibration shall be assessed and managed during those activities.
- (d) If measured or predicted vibration from construction activities exceeds the Category B criteria those activities must only proceed if vibration effects on affected buildings are assessed, monitored and mitigated.

CNV.4

- (a) Unless otherwise provided for in a CNVMP, a Schedule to the CNVMP (Schedule) shall be prepared, in consultation with the owners and occupiers of sites subject to the Schedule to the CNVMP, when:
- (i) construction noise is either predicted or measured to exceed the noise standards in Condition CNV.2;
 - (ii) construction vibration is either predicted or measured to exceed the Category A standard at the receivers in Condition CNV.3.
- (b) The objective of the Schedule is to set out the Best Practicable Option for the management of noise and/or vibration effects of the construction activity beyond those measures set out in the CNVMP. The Schedule shall include details such as:
- (i) construction activity location, start and finish times;
 - (ii) the nearest neighbours to the construction activity;
 - (iii) the predicted noise and/or vibration level for all receivers where the levels are predicted or measured to exceed the applicable standards in Conditions CNV.2 and CNV.3;
 - (iv) the proposed mitigation;
 - (v) the proposed communication with neighbours; and
 - (vi) location, times and types of monitoring.
- (c) The Schedule shall be submitted to the Manager for information at least 5 working days, except in unforeseen circumstances, in advance of Construction Works that are covered by the scope of the Schedule and shall form part of the CNVMP.

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Construction traffic management plan

CT.1

- a) A Construction Traffic Management Plan (CTMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction. The CTMP shall be prepared in consultation with Auckland Transport (including Auckland Transport Metro) and KiwiRail. The outcome of consultation undertaken between the Requiring Authority and Auckland Transport shall be documented including any Auckland Transport comments not incorporated within the final CTMP submitted to the Manager.
- b) The objective of the CTMP is to avoid, remedy or mitigate, as far as practicable, adverse construction traffic effects.
- c) To achieve this objective, the CTMP shall include:
- (i) methods to manage the effects of temporary traffic management activities on traffic capacity and movements, in consultation with Auckland Transport ;
 - (ii) measures to manage the safety of all transport users;
 - (iii) the estimated numbers, frequencies, routes and timing of traffic movements, including any specific non-working or non-movement hours to manage vehicular and pedestrian traffic near schools or to manage traffic congestion;
 - (iv) site access routes and access points for heavy vehicles, the size and location of parking areas for plant, construction vehicles and the vehicles of workers and visitors;
 - (v) methods to manage any road closures that will be required and the nature and duration of any traffic management measures such as the identification of detour routes, temporary restrictions, or diversions and other methods for the safe management and maintenance of traffic flows, including general traffic, buses (including along Park Estate Road and Bremner Road), pedestrians and cyclists, on existing roads. Such access shall be safe, clearly identifiable and seek to minimise significant detours;
 - (vi) methods to maintain pedestrian and/or vehicle access to private property and/or private roads where practicable, or to provide alternative access arrangements when it will not be;
 - (vii) the management approach to loads on heavy vehicles, including covering loads of fine material, the use of wheel-wash facilities at site exit points and the timely removal of any material deposited or spilled on public roads;
 - (viii) methods that will be undertaken to communicate traffic management measures to affected road users (e.g. residents/public/stakeholders/emergency services);
 - (ix) Auditing, monitoring and reporting requirements relating to traffic management activities shall be undertaken in accordance with Waka Kotahi's Code of Practice for Temporary Traffic Management;
 - (x) Methods to manage the availability of on-street and off-street parking if the designated site is unable to accommodate all contractor parking. This shall include an assessment of available parking (if any) for contractors on street and identify measures to meet and/or reduce contractor parking demand for on-street parking to meet this demand;
 - (xi) Methods for recognising and providing for the on-going operation of Auckland Transport managed passenger transport services;
 - (xii) Methods to maintain the functional operational and recreational access to any Auckland Council Park land during construction where practicable.
- d) Any CTMP prepared for a Stage of Work shall be prepared in consultation with Auckland Transport and submitted to the Manager for information 10 working days prior to the Start of Construction for a Stage of Work.

ADVICE NOTE:

Where construction activities may affect the local road network, separate approval will be required from Auckland Transport (as the road controlling authority). The approval will likely include a Corridor Access Request and accompanying Traffic Management Plan.



Urban Design and Landscape Framework	
LV.1	Project planting shall have been fully implemented by the completion of the first planting season following the completion of Project works.
LV.2	Any project planting that fails to establish, or that decline or die within 2 years, must be replaced to the satisfaction of the Manager. The replacement trees must be of similar grade and size to that originally planted.
Arboricultural	
AB.1	All works within the protected root zone of trees to be retained shall be supervised. Works within the protected root zone shall be undertaken as set out in the Arboricultural Assessment prepared by Peers Brown Miller Limited, dated September 2020.
AB.2	There shall be no storage (or temporary storage) of materials, machinery and equipment within the protected root zone of any protected tree.

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Proposed Conditions – Resource Consents

RC.1 Land use (s9) NESCS

RC.2 Land use (s9) earthworks

RC.3 Land use (s9) stormwater works and discharge and diversion

RC.4 Coastal permit (s12) construction works in the CMA and permanent occupation

RC.5 Stream works (s13) construction works in a stream environment and new structures

RC.6 Groundwater permit (s14)

In addition to the conditions below, the following also form part of this condition set:

- Definitions and explanations of terms

RC Ref	Ref	Condition
Standard conditions		
All	GC.1	<p>(a) Except as provided for in the conditions and subject to the final design, the Project shall be undertaken in general accordance with the following plans and information submitted with the Application dated [XXXX]:</p> <p>(i) <i>Assessment of Effects on the Environment</i> dated [XXXX], specifically Section 2.1 the Proposed Project Works Description and Section 2.2 Proposed Construction Methodology.</p> <p>(ii) The General Arrangement Drawings in Appendix F of the <i>Resource Consent and Notices of Requirement Application and Assessment of Effects on the Environment</i> dated [XXXX].</p> <p>(b) Where there may be an inconsistency between the documents listed in clause (a) above and the specific requirements of these conditions, these conditions shall prevail.</p> <p>(c) Where there is an inconsistency between the documents listed in clause (a), provided by the applicant as part of the resource consent and notices of requirement, the most recent plans and information prevail.</p>
All	GC.3	The preparation of all plans and all actions required by these conditions shall be undertaken by a Suitably Qualified Person.
Consent lapse and expiry		
All	GC.5	Pursuant to clause 37(7) of Schedule 6 to the COVID-19 Recovery (Fast-track Consenting) Act 2020, the consents shall lapse if not given effect to within 2 years from the date of their commencement unless they have been given effect to, surrendered or been cancelled at an earlier date.
RC.3	GC.6	Resource consent [reference number] for stormwater diversion shall expire 35 years following the date consent is granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.
RC.2	GC.7	Resource consent [reference number] for bulk earthworks shall expire 5 years following the date it has been granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.
RC.4	GC.8	Resource consent [reference number] for coastal occupation shall expire 35 years following the date consent is granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.
RC.5	GC.9	Resource consent [reference number] for the new structures within the stream beds, shall expire 35 years following the date consent is granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.

RC.1	GC.10	Resource consent [reference number] for disturbing potentially contaminated land shall expire 5 years following the date it has been granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.
RC.6	GC.11	Resource consent [reference number] for the take (dewatering) and groundwater diversion shall expire 35 years following the date consent is granted unless it has lapsed, been surrendered, or been cancelled at an earlier date pursuant to the RMA.
<u>RC.7</u>	<u>GC.12</u>	<u>Resource consent [reference number] for discharge of contaminants into air, water and land during disturbance of the site shall expire 5 years following the date it has been granted unless it has lapsed, been surrendered, or been cancelled at an earlier date.</u>
Pre-construction site meeting		
RC.1, RC.2, RC.4, RC.5, and RC.6 and RC.7.	PC.1	At least five working days prior to the Start of Construction, a preconstruction meeting shall be arranged with the Manager as follows: <ul style="list-style-type: none"> (a) The meeting shall be located on the Project site unless otherwise agreed; (b) The meeting shall include representation from the contractor who will undertake the works; (c) The following information shall be made available at the pre- construction meeting: <ul style="list-style-type: none"> (i) Conditions of consent; (ii) Timeframes for key stages of the works authorised under this consent; (iii) Contact details of the site contractor and other key contractors; (iv) All relevant management plans as per the requirements of the resource consents; and (v) Representatives of the Waka Kotahi Southern IIG shall be invited to attend the pre-construction meeting.
RC.1, RC.2, RC.4, RC.5, and RC.6 and RC.7.	PC.2	Prior to the Start of Construction, appropriate provision shall be made for a cultural induction of the contractor's staff. The Waka Kotahi Southern IIG or its nominated representative(s) (cultural monitors) shall be invited to participate.
Management plans (resource consent)		
RC.1, RC.2, RC.4, and RC.5, RC.6 and RC.7	PC.65	(a) The management plans listed in (b) shall be submitted to the Manager at least 20 working days prior to the anticipated Start of Construction (unless otherwise specified) for certification. The certification process shall be confined to confirming that the Management Plan adequately gives effect to the relevant condition(s). <p>(b) The following plans shall be submitted for certification:</p> <ul style="list-style-type: none"> (i) Contaminated Site Management Plan (CSMP); (ii) Site Specific Erosion and Sediment Control Plan (SSESCP); (iii) Chemical Treatment Management Plan (CHTMP); (iv) Coastal and Stream Works Reinstatement Management Plan (CSRMP); and (v) Native Fish Relocation Plan (NFRP); (vi) Lizard Management Plan (LMP); and (vii) Groundwater and Settlement Management Plan (GSMP). <p>(c) If twenty (20) working days have passed since the management plan has been provided to the Manager under clause (a) above, and the consent holder has not received a response from the Manager, the Management Plan shall be deemed to be certified.</p>

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		<p>(d) If the Manager(s)' response is that they are not able to certify the Management Plan the consent holder shall request that the Manager(s) provide reasons and recommendations for changes to the management plan in writing. The consent holder shall consider any of the reasons and recommendation of the Manager(s) and resubmit an amended Management Plan to be certified.</p> <p>(e) If the consent holder has not received a response from the Manager within five (5) working days of the date of resubmission under clause (d) above, the amended Management Plan will be deemed to be certified.</p> <p>(f) Any certified management plan may be amended, if necessary, to reflect any changes in design, construction methods or management of effects without the need for certification, where;</p> <ul style="list-style-type: none"> (i) the amendment/s have no, or a de minimis adverse effect on the environment, or is a change that results in an improved environmental outcome; or (ii) the amendment is an administrative change, including nominating personnel; and (iii) the revised Management Plan is provided to the Manager and, within ten (10) working days of receiving the revised Management Plan, the Manager has not advised in writing that the amendment shall be certified under clause (b) – (e) on the basis that the amendment/s do not meet the requirements of clauses (f)(i) or (f)(ii). <p>(g) Except as provided for in clause (f), amendments to management plans shall be certified in writing by the Manager prior to the commencement of any works to which the amended management plan(s) relate.</p>
RC.1, RC.2, RC.4, and RC.5, RC.6 and RC.7	PC.76	Management plans may be submitted for certification in parts or in stages to address specific activities or to reflect the staged implementation of the Project.
RC.1, RC.2, RC.4, and RC.5, RC.6, RC.7	PC.87	<p>(a) Project works shall not commence within the area to which a management plan applies until the required management plan(s) has been certified.</p> <p>(b) If 20 working days (unless otherwise specified) have passed since the management plan has been provided to the Manager, or 10 working days have passed since an amended management plan has been provided to the Manager, and either:</p> <ul style="list-style-type: none"> (i) An alternative timeframe has not been agreed prior to submission of the management plan; or (ii) The Manager has not certified the management plan; <p>Then the works may commence in accordance with the management plan as provided.</p>
Site access		
All	CC.1	Subject to compliance with the Consent Holder's health and safety requirements and provision of reasonable notice, the servants or agents of Council shall be permitted to have access to relevant parts of the construction sites controlled by the Consent Holder at all reasonable times for the purpose of carrying out inspections, surveys, investigations, tests, measurements and/or to take samples.
All	CC.2	A copy of the plans and these designation and resource consent conditions shall be kept either electronically or in hard copy on-site at all times that Enabling Works and Construction Works are being undertaken
All	CC.3	All earthmoving machinery, pumps, generators and ancillary equipment must be operated in a manner that ensures spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery services and maintenance.

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Construction Environmental Management Plan		
All	CC.4	<p>(a) A Construction Environmental Management Plan (CEMP) shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction.</p> <p>(b) The objective of the CEMP is to set out the management procedures and construction methods to be undertaken to avoid, remedy or mitigate any adverse effects associated with Construction Works as far as practicable.</p> <p>(c) To achieve the objective, the CEMP shall include:</p> <ul style="list-style-type: none"> (i) the roles and responsibilities of staff and contractors; (ii) details of the site or Project manager and the Project Liaison Person, including their contact details (phone and email address); (iii) the Construction Works programmes and the staging approach, and the proposed hours of work; (iv) the proposed site layouts (including construction yards), locations of refuelling activities and construction lighting; (v) methods for controlling dust and the removal of debris and demolition of construction materials from public roads or places; (vi) methods for providing for the health and safety of the general public; (vii) measures to mitigate flood hazard effects such as siting stockpiles out of floodplains, minimising obstruction to flood flows, actions to respond to warnings of heavy rain; (viii) procedures for incident management; (ix) procedures for the refuelling and maintenance of plant and equipment to avoid discharges of fuels or lubricants to watercourses; (x) measures to address the storage of fuels, lubricants, hazardous and/or dangerous materials, along with contingency procedures to address emergency spill response(s) and clean up; (xi) procedures for responding to complaints about Construction Works; and (xii) methods for amending and updating the CEMP as required. <p>(d) Any CEMP prepared for a Stage of Work shall be submitted to the Manager for information at least ten working days before the Start of Construction for a Stage of Work.</p> <p>(e) The CEMP shall be prepared having regard to the Waka Kotahi Guideline for Preparing Environmental and Social Management Plans (April 2014), or any subsequent version.</p>
All	CC.5	If the CEMP required by condition CC.4 is amended or updated, the revised CEMP shall be submitted to the Manager for information within five (5) working days of the update being made.
Mana Whenua		
All	MW.1	<p>(a) A Cultural Monitoring Plan shall be submitted to the Manager for information at least 10 working days prior to the Start of Construction. The Cultural Monitoring Plan shall be prepared by a person identified in collaboration with Relevant Iwi Authorities.</p> <p>(b) The purpose of the Cultural Monitoring Plan is to set out the agreed cultural monitoring requirements and measures to be implemented during construction activities, to acknowledge the historic and living cultural values of the area to Mana Whenua and to minimise potential adverse effects on these values.</p> <p>(c) The Cultural Monitoring Plan shall include:</p>

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- (i) Requirements and protocols for cultural inductions for contractors and subcontractors;
- (ii) Identification of sites and areas where cultural monitoring is required during particular Construction Works;
- (iii) Identification of personnel nominated by the project Relevant Iwi Authorities to undertake cultural monitoring, including any geographic definition of their responsibilities; and
- (iv) Details of personnel nominated by the project Relevant Iwi Authorities to assist with management of any issues identified during cultural monitoring.

ADVICE NOTE:

For the purposes of the Project, RIAs are considered to be members of the Southern Iwi Integration Group.

Contaminated Land

RC.1, RC.7	CL.1	<ul style="list-style-type: none"> (a) The Contaminated Site Management Plan (CSMP) submitted with the Application shall be updated by a SQEP prior to the commencement of earthworks in the vicinity of known or potentially contaminated soils. The CSMP shall be updated with the results of any further soil contamination sampling. (b) The objective of the CSMP is to detail the procedures to be implemented during the Project to control the disturbance and movement of identified contaminated, or potentially contaminated soils. These procedures shall cover management of health and safety and potential environmental risk from contaminated land associated with the Project. (c) The CSMP shall be submitted to the Manager for certification at least 20 working days prior to the commencement of earthworks. (d) To achieve the objective, the updated CSMP shall include: <ul style="list-style-type: none"> (i) Summary of proposed works, areas of known or potentially contaminated soils and material and summary of related hazards; (ii) Roles and responsibilities of the parties involved in the land disturbance activities, including the SQEP; (iii) Methods for soil testing at potentially contaminated sites; (iv) Potential and known hazards arising from contamination (if present); (v) Specific management methods developed for construction earthworks in potentially contaminated soils including: <ol style="list-style-type: none"> 1. On site soil management practices <u>including measures for managing temporary stockpile, with appropriate erosion and sediment controls and covering</u>; 2. <u>Covered</u> Off-site soil transport and disposal; 3. Personal protection and monitoring; and 4. Management of dust and odour including details of where measures are covered in other plans. 5. <u>Response actions which will apply where contaminants are identified that were not anticipated in the CSMP submitted with the Application; and</u> 5-6. <u>Management of perched groundwater or surface run-off water encountered within the excavation.</u> (vi) Testing and validation requirements for the management and disposal of contaminated soil and materials; and (vii) <u>Post-construction controls (if required); and</u>
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		(vii) (viii) <u>Stockpiling of material containing separate phase hydrocarbons or odorous petroleum hydrocarbons shall not take place.-</u>
RC.1, <u>RC.7</u>	CL.2	Discharges of dust shall not cause offensive or objectionable effects at any location beyond the boundary of the works area, in the opinion of the Manager when assessed in accordance with the Good Practice Guide for Assessing and Managing Dust (Ministry for the Environment, 2016).
RC.1, <u>RC.7</u>	CL.3	Dust management during the works shall be undertaken in general accordance with the recommendations of the Good Practice Guide for Assessing and Managing Dust (Ministry for the Environment, 2016) and minimise dust generation as far as practicable. This shall include having sufficient water to dampen exposed soil and unsealed areas, and/or other dust suppressing measures, available as necessary.
RC.1	CL.4	Excavated material that is not re-used on site shall be disposed of at an appropriate facility licensed to accept the levels of identified contamination.
RC.1	CL.5	Soils imported to the site shall comply with the definition of 'Cleanfill material', as set out in the AUP.
RC.1	CL.6	All sampling and testing of contamination on the site shall be overseen by a SQEP. All sampling shall be undertaken in general accordance with the Contaminated Land Management Guidelines No.5: Site Investigation and Analysis of Soils (Ministry for the Environment, revised 2011).
RC.1	CL.7	<p>Within three months of the completion of earthworks on the site, a works completion report shall be submitted to the Manager. The works completion report shall be prepared by a SQEP and contain sufficient detail to address the following matters:</p> <ul style="list-style-type: none"> (a) A summary of the works undertaken, including the location and dimensions of the excavations carried out and the volume of soil excavated and removed from the site; (b) Details and results of any testing undertaken and interpretation of the results in the context of the NESCS, and the AUP; (c) Records/evidence of the appropriate disposal for any material removed from the site; (d) Records of any unexpected contamination encountered during the works and response actions, if applicable; (e) Conditions of the final site ground surface and details of any validation sampling undertaken on materials re-used on site or imported to site; (f) Reports of any complaints, health and safety incidents related to contamination, and/or contingency events during the earthworks; and (g) A statement certifying that all works have been carried out in accordance with the requirements of the consent and CSMP.
Erosion and Sediment Control Plans		
RC.2	EW.1	<ul style="list-style-type: none"> (a) A Site Specific Erosion and Sediment Control Plan (SSESCP) shall be prepared prior to the Start of Construction in a Specific Area. (b) The objective of the SSESCPs is to set out measures to be implemented during construction to manage and reduce as far as practicable erosion and the discharge of sediment beyond the footprint of the Project. (c) The SSESCP shall be submitted to the Manager for certification at least 5 working days prior to the Start of Construction in a Specific Area. (d) To achieve the objective, the SSESCP for a Specific Area shall include: <ul style="list-style-type: none"> (i) Detailed erosion and sediment control measures for all works associated within channels and stream works;

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		<ul style="list-style-type: none"> (ii) Details of specific erosion and sediment controls to be utilised, (location, dimensions (including shape and volume), position of inlets/outs); (iii) Supporting calculations including design drawings; (iv) Catchment boundaries and contour information; (v) Design details for managing the treatment, disposal and/or discharge of contaminants (e.g. concrete wash water); (vi) Pumping management activities; (vii) Timing and duration of construction and operation of control works (in relation to the staging and sequencing of earthworks); (viii) Details of construction methods; (ix) Details relating to the management of exposed areas and stabilisation of erosion control devices (e.g. grassing, mulching); (x) Erosion and sedimentation controls (including use of a fully biodegradable erosion control blankets in the vicinity of any waterways) specific to an estuarine environment to minimise runoff, turbidity, debris/dust and the exit velocity of any overland discharges into the Ngakoroa Stream. (xi) The identification of staff who will monitor compliance with conditions; and (xii) Monitoring and maintenance requirements. <p>(e) All 'Cut and Cover' operations are to be stabilised in accordance with Council's Guideline Document 2016/005 Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region GD05 (and any amendments to this document) at the end of each working day, and/or if rain is forecast.</p>
RC.2	EW.2	<p>(a) A Chemical Treatment Management Plan (CHTMP) shall be prepared prior to the Start of Construction.</p> <p>(b) The objective of the CHTMP is to provide specific chemical treatment details for the site's decanting earth bunds.</p> <p>(c) The CHTMP shall be submitted to the Manager for certification at least 20 working days prior to the Start of Construction.</p> <p>(d) To achieve the objective, the CHTMP shall include as a minimum:</p> <ul style="list-style-type: none"> (i) Specific design details of the chemical treatment system based on a rainfall activated methodology for the site's decanting earth bunds; (ii) Details of optimum dosage (including assumptions and consideration of the use of organic flocculants); (iii) Results of initial chemical treatment trial and bench testing; (iv) Monitoring, maintenance (including post-storm) and contingency management (including a record sheet); (v) A spill contingency plan; and (vi) Details of the person or bodies that will hold responsibility for the operation and maintenance of the chemical treatment system and the organisational structure which will support this system.
RC.2	EW.3	Upon abandonment or completion of earthworks on the Project site all areas of bare earth shall be permanently stabilised against erosion in accordance with GD05 or any amendments to this document.
RC.2	EW.4	Prior to bulk earthworks commencing in a Specific Area identified by a SSES CP (as described by condition EW.1), a signed certificate shall be submitted to the Manager to certify that the erosion and sediment controls have been constructed in accordance with the SSES CP.

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RC.2	EW.5	Sediment laden water passing through decanting earth bunds shall be chemically treated throughout the duration of earthworks in accordance with the certified CHTMP.
RC.2	EW.6	All silt fences and super silt fences shall be installed, operated and maintained in accordance with GD05 and any amendments to this document.
RC.2	EW.7	There shall be no deposition of earth, mud, dirt or other debris on any road or footpath outside of the Project site resulting from earthworks activity. In the event that such deposition does occur, it shall be removed as soon as practicable. In no instance shall roads or footpaths be washed down with water without appropriate erosion and sediment control measures in place to prevent contamination of the stormwater drainage system, watercourses or receiving waters.
RC.2	EW.8	The operational effectiveness and efficiency of all erosion and sediment control measures specifically required as a condition of this resource consent or by the SSES CP, shall be maintained throughout the duration of earthworks activity, or until the site is permanently stabilised against erosion.
RC.2	EW.9	The site shall be progressively stabilised against erosion at all stages of the earthworks activity, including temporary stabilisation of those areas of earthworks not actively worked for more than a 14-day period, and shall be sequenced to minimise the discharge of contaminants to surface water.
RC.2	EW.10	No earthworks on the Project site shall be undertaken between 1 May and 30 September in any year, without the written certification of the Manager prior to works commencing.
RC.2	EW.11	Stabilisation / revegetation is to be completed by 30 April in any year in accordance with measures detailed in GD05 or any amendments to this document.

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Coastal Construction

RC.4	CA.1	<p>(a) A Coastal and Stream Works Reinstatement Management Plan (CSRMP) shall be prepared prior to the Start of Construction.</p> <p>(b) The objective of the CSRMP is to confirm the proposed construction methodologies for works in the CMA and stream environments and to set out the specific management procedures to be undertaken in order to manage potential adverse effects arising from those works.</p> <p>(c) The CSRMP shall be submitted to the Manager for certification at least 20 working days prior to the commencement of works within the CMA and/or stream and coastal environments of Ngakoroa Stream in the vicinity of Jesmond bridge.</p> <p>(d) To achieve the objective, the CSRMP shall include:</p> <p>(i) Construction methodologies, including:</p> <ol style="list-style-type: none"> A. Plan(s) of the combined construction and reinstatement footprint adjacent to the coastal and/or stream environment, minimising the area required for access and works areas; B. Details for the use of Clean Granular Fill Material for abutments and works in the coastal environment or stream environment to minimise rise of elevated in-stream turbidity; C. Details of temporary staging platforms to be located in the Ngakoroa Stream and on embankments. D. Details of how and where mangroves or other intertidal vegetation are removed; E. Erosion and sedimentation controls specific to an estuarine environment to minimise runoff, turbidity, debris/dust and the exit velocity of any overland discharges into the Ngakoroa Stream and associated intertidal areas;
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		<p>F. Methods to prevent debris from bridge deconstruction or other rubbish entering the Ngakoroa Stream;</p> <p>G. Methods for managing construction materials and machinery so that no toxic materials, dust and sediments enter the Ngakoroa Stream, and no existing Mesh enters the stream and estuary; and</p> <p>H. A Marine Mammal Plan if one is to be utilised under condition C.4.</p> <p>(ii) Reinstatement work, including:</p> <p>A. Details of proposed planting, in general accordance with the Papakura to Bombay Urban and Landscape Design Framework submitted with the Application and incorporating appropriate native vegetation in the riparian areas and MHWS zone within the works footprint;</p> <p>B. Details of appropriate substrate and erosion protection materials in Ngakoroa Stream after declamation of the existing bridge abutments;</p> <p>C. Means of reinstating works areas upon completion of Project works; and</p> <p>D. Details of the removal or/cutting of all the piers from the existing bridge and remnant piers from previous bridges within the CMA and/or intertidal stream bed.</p>
RC.4	CA.2	If temporary staging piles are required in the Ngakoroa Stream and/or on embankments, no temporary piles shall be located in the deeper part of the channel below the mean spring low-tide level, and any temporary pile groups are to be aligned with the stream flow direction (both incoming and outgoing tides) to minimise flow impedance.
RC.4	CA.3	In the event that debris from bridge deconstruction or construction or other rubbish associated with the Project enters the Ngakoroa Stream, it shall be removed immediately.
RC.4	CA.4	Impact or vibratory piling shall be carried out: <p>(a) at either side of low tide (between half tide falling and half tide rising i.e. 3 hours either side of low tide) or;</p> <p>(b) in accordance with a Marine Mammal Plan with the use of trained marine mammal observers</p>
RC.4	CA.5	Removal of all the piers from the existing bridge and remnant piers from previous bridges shall be cut at or just above the existing seabed or streambed to minimise in-situ sediment disturbances.
RC.4	CA.6	In the event of any significant scour or stream bank erosion that can be attributed to the temporary occupation of the Ngakoroa Stream, the Manager shall be notified, and the affected area shall be inspected as soon as practicable and within 24 hours to: <p>(a) Determine whether there has been any significant adverse effect on ecological values; and</p> <p>(b) Recommend what measures could be taken to remedy the effect or avoid a further occurrence.</p> <p>The recommended measures shall be discussed and agreed with the Manager, and the agreed measures implemented as soon as practicable to remedy the effect or to avoid a further occurrence.</p>
RC.4	CA.7	All machinery shall be operated (including maintenance, lubrication and refuelling) so that no hazardous substances such as fuel, oil or similar contaminants are discharged into the estuarine environment. If any discharge occurs, work that has caused that effect shall cease immediately, and the discharge shall be mitigated and/or rectified to the satisfaction of the Manager.
RC.4	CA.8	Within 40 days following the completion of the works, all construction materials and temporary staging shall be removed from the CMA, to the satisfaction of the Manager.

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Permanent Coastal Occupation		
RC.4	CA.9	<p>The right to occupy part of the CMA shall be limited to the area of Jesmond Bridge as shown in the General Arrangement Drawings referred to in GC.1.</p> <p>ADVICE NOTE:</p> <p>The Auckland Unitary Plan Operative in Part (Updated 12 March 2021) defines the CMA as</p> <p><i>"the same meaning as in the Resource Management Act 1991 except where the line of mean high water springs crosses a river specified in Appendix 7 Coastal Marine Area boundaries, the landward boundary must be the point defined in the appendix."</i></p> <p>The CMA referred to in CA.9 only relates to the seaward (northern) side of Jesmond Bridge. The CMA boundary at Jesmond Bridge is illustrated on the Auckland Council Geomaps.</p>
Stream works		
RC.5	ST.1	<p>(a) A Native Fish Relocation Plan (NFRP) shall be prepared prior to the Start of Construction.</p> <p>(b) The objective of the NFRP is to detail how native fish will be salvaged prior to works commencing.</p> <p>(c) The NFRP shall be submitted to the Manager for certification at least 20 working days prior to streamworks commencing.</p> <p>(d) To achieve the objective, the NFRP shall include:</p> <ul style="list-style-type: none"> (i) Methodologies to capture or remove fish within the impacted streams habitats; (ii) Fishing effort; (iii) Details of the relocation site; (iv) Storage and transport measures including prevention of predation and death during capture; (v) Euthanasia methods for diseased or pest species; and (vi) A requirement that any pumps used to dewater the streams shall contain a screen to prevent fish from entering the pump.
RC.5	ST.2	<p>(a) A Coastal and Stream Works Reinstatement Management Plan (CSRMP) shall be prepared prior to the Start of Construction.</p> <p>(b) The objective of the CSRMP is to confirm the proposed construction methodologies for works in the CMA and stream environments and to set out the specific management procedures to be undertaken in order to manage potential adverse effects arising from those works.</p> <p>(c) The CSRMP shall be submitted to the Manager for certification at least 20 working days prior to the commencement of works within the CMA and/or stream and coastal environments of Ngakoroa Stream in the vicinity of Jesmond bridge.</p> <p>(d) To achieve the objective, the CSRMP shall include:</p> <ul style="list-style-type: none"> (i) Construction methodologies, including: <ul style="list-style-type: none"> A. Plan(s) of the combined construction and reinstatement footprint adjacent to the coastal and/or stream environment, minimising the area required for access and works areas; B. Details for the use of Clean Granular Fill Material for abutments and works in the coastal environment or stream environment to minimise rise of elevated in-stream turbidity;

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		<p>C. Details of temporary staging platforms to be located in the Ngakoroa Stream and on embankments.</p> <p>D. Details of how and where mangroves or other intertidal vegetation are removed;</p> <p>E. Erosion and sedimentation controls specific to an estuarine environment to minimise runoff, turbidity, debris/dust and the exit velocity of any overland discharges into the Ngakoroa Stream and associated intertidal areas;</p> <p>F. Methods to prevent debris from bridge deconstruction or other rubbish entering the Ngakoroa Stream; and</p> <p>G. Methods for managing construction materials and machinery so that no toxic materials, dust and sediments enter the Ngakoroa Stream, and no existing Mesh enters the stream and estuary;</p> <p>H. A Marine Mammal Plan if one is to be utilised under condition C.4.</p> <p>(ii) Reinstatement work, including:</p> <p>A. Details of proposed planting, in general accordance with the Papakura to Bombay Urban and Landscape Design Framework submitted with the Application and incorporating appropriate native vegetation in the riparian areas and MHWS zone within the works footprint;</p> <p>B. Details of appropriate substrate and erosion protection materials in Ngakoroa Stream after declamation of the existing bridge abutments;</p> <p>C. Means of reinstating works areas upon completion of Project works; and</p> <p>D. Details of the removal or/cutting of all the piers from the existing bridge and remnant piers from previous bridges within the CMA and/or intertidal stream bed.</p>
RC.5	ST.3	If temporary staging piles are required in the Ngakoroa Stream and/or on embankments, no temporary piles shall be located in the deeper part of the channel below the mean spring low-tide level, and any temporary pile groups are to be aligned with the stream flow direction (both incoming and outgoing tides) to minimise flow impedance.
RC.5	ST.4	Impact or vibratory piling shall be carried out: <p>(a) at either side of low tide (between half tide falling and half tide rising i.e. 3 hours either side of low tide) or;</p> <p>(b) in accordance with a Marine Mammal Plan with the use of trained marine mammal observers</p>
RC.5	ST.5	In the event that debris from bridge deconstruction or construction or other rubbish associated with the Project enters the Ngakoroa Stream, it shall be removed immediately.
RC.5	ST.6	Removal of all the piers from the existing bridge and remnant piers from previous bridges shall be cut at or just above the existing seabed or streambed to minimise in-situ sediment disturbances.
RC.5	ST.7	All machinery shall be operated (including maintenance, lubrication and refuelling) so that no hazardous substances such as fuel, oil or similar contaminants are discharged into the estuarine environment. If any discharge occurs, work that has caused that effect shall cease immediately, and the discharge shall be mitigated and/or rectified to the satisfaction of the Manager.
RC.5	ST.8	In the event of any significant scour or stream bank erosion that can be attributed to the temporary occupation of the Ngakoroa Stream, the Manager shall be notified, and the affected area shall be inspected as soon as practicable and within 24 hours to: <p>(a) Determine whether there has been any significant adverse effect on ecological values; and</p>

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		(b) Recommend what measures could be taken to remedy the effect or avoid a further occurrence. The recommended measures shall be discussed and agreed with the Manager, and the agreed measures implemented as soon as practicable to remedy the effect or to avoid a further occurrence.
RC.5	ST.9	A Suitably Qualified Person shall carry out all native fish relocation and capture as per the certified NFRP and shall be on site during the dewatering and initial excavation of the aquatic habitat in order to relocate any native fish to a suitable and healthy stream habitat should they be found on site. ADVICE NOTE: <i>Permits may be required by the Ministry of Primary Industries or Department of Conservation to undertake the fish salvage and relocation proposed.</i>
RC.5	ST.10	If fish salvage is carried out, the Manager shall be provided information within five days of completion of salvage regarding the relocation site, the species, and number of fish relocated prior to and during dewatering and initial excavation of the aquatic habitat.

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Stormwater Management Works																																
RC.3	SW.1	At least five working days prior to the start of works for stormwater devices onsite, a stormwater pre-commencement meeting shall be arranged with the Manager that: <ul style="list-style-type: none"> (a) Is located on the Project site; (b) Includes timeframes for key stages authorised under this consent; (c) Includes the certified plans and drawings as set out in condition SW.4; (d) Includes the Manager or authorised delegate; and (e) Includes representation from the site stormwater engineer or contractors who will undertake the works and any other relevant parties. 																														
RC.3	SW.2	Stormwater management works in Table [1] shall be completed prior to continuous operation of further impervious surfaces in that catchment: Table [1] <table border="1" data-bbox="395 1272 1096 1836"> <thead> <tr> <th>Treatment Device/ID</th> <th>Motorway section (chainage CH)</th> <th>Catchment ID</th> <th>Total Impervious surface (ha) to be treated (new + existing) (approx.)</th> <th>Immediate receiving environment</th> <th>Design requirement</th> </tr> </thead> <tbody> <tr> <td>MTD-01</td> <td>SH1 8980 - 9510 (MC00)</td> <td>CA-1A</td> <td>1.24</td> <td>Pāhurehure Inlet</td> <td>Water quality treatment*</td> </tr> <tr> <td>Wetland 1 or Vegetated Treatment Swale</td> <td>230 - 450 (MCB0) 13640 - 13920 (MC00)</td> <td>CA-7</td> <td>2.2</td> <td>Ngākoroa Stream North of Jesmond Bridge (CMA)</td> <td>Water quality treatment**</td> </tr> <tr> <td>MTD-03</td> <td>40 - 230 (MCB0)</td> <td>CA-8</td> <td>0.470</td> <td>Ngākoroa Stream south of Jesmond Bridge (CMA)</td> <td>Water quality treatment*</td> </tr> <tr> <td>MTD-07</td> <td>Great South Road</td> <td>CA-11A</td> <td>0.590</td> <td>Hingaia Stream at Karaka Reserve</td> <td>Water quality treatment*</td> </tr> </tbody> </table>	Treatment Device/ID	Motorway section (chainage CH)	Catchment ID	Total Impervious surface (ha) to be treated (new + existing) (approx.)	Immediate receiving environment	Design requirement	MTD-01	SH1 8980 - 9510 (MC00)	CA-1A	1.24	Pāhurehure Inlet	Water quality treatment*	Wetland 1 or Vegetated Treatment Swale	230 - 450 (MCB0) 13640 - 13920 (MC00)	CA-7	2.2	Ngākoroa Stream North of Jesmond Bridge (CMA)	Water quality treatment**	MTD-03	40 - 230 (MCB0)	CA-8	0.470	Ngākoroa Stream south of Jesmond Bridge (CMA)	Water quality treatment*	MTD-07	Great South Road	CA-11A	0.590	Hingaia Stream at Karaka Reserve	Water quality treatment*
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MTD-07	Great South Road	CA-11A	0.590	Hingaia Stream at Karaka Reserve	Water quality treatment*																											

		230 – 530 (MCG0)				
MTD-06	Southbound off ramp	CA-11B	1.640	Hingaia Stream at Karaka Reserve	Water quality treatment*	
Wetland 2	SH1 13920 – 14200 (MC00)	CA-11C	1.16	Ngākoroa Stream at Drury Sports Complex	Water quality treatment**	
Wetland 3	SH1 14200 – 14330 (MC00)	CA-11D	0.37	Ngākoroa Stream at Drury Sports Complex	Water quality treatment**	
Vegetated Treatment Swale MTD-08	Great South Road 40 – 230 (MCG0)	CA-12A	0.23	Ngākoroa Stream	Water quality treatment** Water quality treatment*	
MTD -GPT	Great South Road 40 – 230 (MCG0)	CA-12B	0.59	Ngākoroa Stream	Gross pollutant removal	
MTD-09	SH1 14330 – 15160 (MC00)	CA-13	3.66	Hingaia Stream at 270 Flanagan Road	Water quality treatment*	

ADVICE NOTE:

*For the purposes of this condition and subsequent certification, the manufactured treatment device selection should be in accordance with Appendix 1 Stormwater Specification Manufactured Treatment Device Radial Media Filled Filter Cartridge, prepared by Auckland System Management, dated 8 May 2020.

**Permanent stormwater treatment devices in Table [1] shall be designed in accordance with Council's Guideline Document 2017/001 Stormwater Management Devices in the Auckland Region (GD01).

RC.3	SW.3	<p>In the event that any modifications to the stormwater management system in Table [1] are required, that will not otherwise result in an application pursuant to section 127 RMA, the following information shall be provided:</p> <ul style="list-style-type: none"> (a) Plans and drawings outlining the details of the modification; and (b) Supporting information that details how the modification does not affect the capacity or treatment performance of the stormwater management system authorised by this consent. <p>All information shall be submitted to the Manager for certification, at least 10 working days prior to implementation.</p> <p>ADVICE NOTE:</p> <p><i>All proposed changes must be discussed with the Manager, prior to implementation. Any changes to the proposal which will affect the capacity or treatment performance of the stormwater management system will require an application to Council pursuant to Section 127 of the RMA. An example of a minor modification can be a change to the location of a pipe or slight changes to the site layout. If there is a change of device type (even proprietary), the consent will have to be varied (s127 under the RMA).</i></p>
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RC.3	SW.4	<p>Detailed design, including drawings, specifications, design report and calculations for the stormwater management devices shall be submitted to the Manager for certification at least 20 working days prior to construction of the proposed stormwater management devices. The following information shall be included and not be limited to:</p> <ul style="list-style-type: none"> (a) Design drawings and calculations for all stormwater structures including, culverts, outfalls, erosion protection measures, bypass devices, proprietary treatment devices, vegetated swales, wetlands, access provisions, and overland flow paths; (b) Catchment plans detailing the impervious and pervious areas contributing to each stormwater management device. <p>The purpose of the certification is to confirm that the final design addresses the following:</p> <ul style="list-style-type: none"> (c) Roading, kerbs and channels constructed across overland flow paths shall maximise the capture of water by road cesspits. Driveway crossings shall be constructed to minimise the overflow of water from the road into private properties; and (d) For stormwater flows in excess of the capacity of the primary drainage systems, overland flow paths shall be provided and maintained to allow surplus stormwater from critical storms (up to the 100-year Annual Recurrence Interval event), to discharge with the minimum of nuisance and damage.
RC.3	SW.5	<ul style="list-style-type: none"> (a) A detailed planting plan for the vegetated swales and the wetland(s) shall be prepared in accordance with GD01 (or any amendments to this document), and submitted to the Manager for certification at least 20 working days prior to the construction of the proposed vegetated swales and wetland(s). (b) The planting plan(s) for all vegetated swales and wetlands shall include but not be limited to: <ul style="list-style-type: none"> (i) Details of plant species, plant numbers, density and distribution; and (ii) Details of ongoing pest and weed management.
RC.3	SW.6	Planting shall be undertaken in accordance with the certified planting plan.
RC.3	SW.7	As-built certification and plans of the stormwater management works, which are certified (signed) as a true record of the stormwater management system, shall be provided to the Manager at least 20 working days prior to devices being made operational.
RC.3	SW.8	<p>The as-built plans shall display the entirety of the stormwater management system and shall include:</p> <ul style="list-style-type: none"> (a) The surveyed location (to the nearest 0.1m) and level (to the nearest 0.01m) of the discharge structures, with co-ordinates expressed in terms of Mt Eden Projection and New Zealand Vertical Datum 2016 (NZVD 16); (b) Plans and cross sections of all stormwater management devices, including confirmation of the water quality volume, storage volumes, and levels / sizes of all outflow control structures and discharge outlets; and (c) Documentation of any discrepancies between the design plans and the as-built plans.

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RC.3	SW.9	<p>(a) A Stormwater Operation and Maintenance Plan (SOMP) shall be prepared upon completion of the construction of the permanent stormwater management system. The SOMP shall be reviewed and approved by the Network Operator prior to submitting to Council for information.</p> <p>(b) The objective of the SOMP is to maintain water quality and quantity control functions of the stormwater management devices to achieve the standards to which the devices were designed and constructed.</p> <p>(c) The SOMP shall include:</p> <ul style="list-style-type: none"> (i) Details of the person or organisation that will hold responsibility for long-term maintenance of the stormwater management system; (ii) A programme for regular inspection and maintenance of the stormwater management system, including outfalls and vegetation associated with the stormwater management devices; (iii) A programme for the collection and disposal of debris and sediment collected by the stormwater management devices; (iv) Methods to maintain all overland flow paths and secondary overland flow paths free from obstruction within the Waka Kotahi designations; (v) General inspection checklists for all aspects of the stormwater management system, including visual checks; and (i) Procedures for post high intensity storm event, inspections and maintenance.
RC.3	SW.10	The stormwater management system shall be managed in accordance with the SOMP.
RC.3	SW.10	At least 20 working days prior to implementation, any amendments or alterations to the details within the Stormwater Operation and Maintenance Plan must be submitted to the Council in writing for information.
Groundwater Permit		
RC.6	GW.1	The Manager shall be advised in writing at least 10 working days prior to the date of the Commencement of Dewatering.
RC.6	GW.2	All excavation, dewatering systems and retaining structures associated with the diversion or taking of groundwater, shall be designed, constructed and maintained so as to avoid damage to buildings, structures and services within the project area or adjacent properties. This applies unless otherwise agreed in writing with the asset owner.
RC.6	GW.3	During construction, the Consent Holder shall implement procedures that will appropriately respond to the information received from the monitoring system identified in Section 5.1 and Appendix D of the Papakura to Drury South Stage 1B1 Groundwater Assessment dated 11/6/21, including assessment at each excavation stage of the actual retention and building response against the predictions determined from the detailed design.
	GW.3	<p><u>A Groundwater and Settlement Management Plan (GSMP) shall be prepared and submitted to the Manager for certification in accordance with the process set out in Condition PC.6 prior to Commencement of Construction of the new Bremner Road Bridge East Abutment Retaining Wall with potential groundwater and settlement effects. The objective of the GSMP is to outline the measures to be adopted to monitor and respond to any changes in groundwater beyond the boundary of the Project site arising from construction activities. The GSMP shall incorporate the matters in Conditions GW.4 to GW.8 including:</u></p> <p><u>a) Details of groundwater monitoring including:</u></p> <ul style="list-style-type: none"> <u>(i) A schedule of groundwater monitoring bores identifying piezometer depth and geological unit;</u> <u>(ii) Details of final bore construction and piezometer installation;</u> <u>(iii) The location of the groundwater monitoring bores;</u>

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	<p>(iv) <u>The methods and frequency of groundwater level monitoring:</u></p> <p>b) <u>Details for ground settlement monitoring including:</u></p> <p>(i) <u>The predicted total estimated settlement and building damage categories:</u></p> <p>(ii) <u>A schedule of ground settlement monitoring markers confirmed in Condition GW.6:</u></p> <p>(iii) <u>The methods and frequency of ground settlement monitoring:</u></p> <p>(iv) <u>Alert and alarm levels where Alert is less than 75% of the theoretical movement expected to cause building damage and Alarm is less than 100% of the theoretical movement expected to cause building damage, with due consideration of the seasonal range of ground movement identified by pre-construction monitoring; and survey tolerances. Procedures to follow in the event of trigger levels being exceeded.</u></p> <p>c) <u>Reporting requirements.</u></p>	
GW.4	<u>The Consent Holder shall monitor groundwater levels in the groundwater monitoring bores confirmed in Condition GW.3 and keep records of the water level measurement and corresponding date.</u>	
GW.5	<p>a) <u>The Consent Holder shall install and maintain groundwater level monitoring boreholes for a period starting at least 1 month prior to Commencement of Construction and concluding no less than 6 months following Completion of Construction.</u></p> <p>b) <u>As a minimum the groundwater monitoring boreholes shall include sites:</u></p> <p>(i) <u>51 Creek Street</u></p> <p>(ii) <u>69 Creek Street</u></p>	
GW.6	<p><u>The Consent Holder shall establish a series of ground settlement monitoring markers to monitor potential settlement in relation to the construction of the of the new Bremner Road Bridge East Abutment Retaining Wall. The survey markers shall be located generally as follows subject to agreement of the owners of land in which the survey markers are proposed to be located:</u></p> <p>a) <u>On or around buildings at 51 Creek Street</u></p> <p>b) <u>On or around buildings at 69 Creek Street</u></p> <p>c) <u>The location of the markers shall be confirmed in the GSMP.</u></p> <p>d) <u>The location of markers may be updated to reflect detailed analysis and interpretation of monitoring results as construction works progress. Any changes shall be included in the GSMP.</u></p>	
GW.7	<p><u>The Consent Holder shall survey the settlement monitoring markers at the following frequency:</u></p> <p>a) <u>At weekly intervals starting at least 1 month prior to excavation of the of the new Bremner Road Bridge East Abutment Retaining Wall;</u></p> <p>b) <u>At monthly intervals following completion of excavation of the of the new Bremner Road Bridge East Abutment Retaining Wall for a period of 6 months. For the purpose of this condition, excavation of the new Bremner Road Bridge East Abutment Retaining Wall is complete when the permanent wall structural elements are in place.</u></p>	
GW.8	<u>If the ground settlement alert or alarm levels in Condition GW.3(b)(iv) are exceeded, the trigger marker shall be resurveyed within 24 hours. If the resurvey indicates that a building has increased its damage category from that confirmed in the GSMP, then this shall be considered to be an Alert Level and additional specific assessment of the building shall be carried out by the Consent Holder to confirm this resurvey within 72 hours. If the additional assessment following resurvey confirms the increase in damage category, this shall be considered to be an Alarm Level and the property owner and occupier(s) will be notified within 48 hours. Following consultation with the property owner and occupier(s); subsequent actions may include increased frequency and/or extent of monitoring, modification to the construction methodology or mitigation works to the affected building (subject to building owner approval and any additional statutory approvals required).</u>	

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RC.6

GW.94

If the Consent Holder becomes aware of any Damage to buildings, structures or Services potentially caused wholly, or in part, by the exercise of this consent, the Consent Holder shall:

(a) Notify the Manager and the asset owner within two working days of the Consent Holder becoming aware of the Damage.

(b) Prepare a report prepared by a suitably qualified and experienced person that describes the Damage; identifies the cause of the Damage; identifies methods to remedy and/or mitigate the Damage that has been caused; identifies the potential for further Damage to occur, and, describes actions that will be taken to avoid further Damage.

(c) Provide a copy of the report prepared under (b) above, to the Manager and the asset owner within 10 working days of notification under (a) above.

ADVICE NOTE:

It is anticipated the Consent Holder will seek the permission of the damaged asset owner to access the property and asset to enable the inspection/investigation. It is understood that if access is denied the report will be of limited extent. If the Consent Holder becomes aware of any Damage to buildings, structures or Services potentially caused wholly, or in part, by the exercise of this consent, the Consent Holder shall:

(a) Notify the Manager and the asset owner within two working days of the Consent Holder becoming aware of the Damage.

(b) Provide a report prepared by a suitably qualified and experienced person that describes the Damage; identifies the cause of the Damage; identifies methods to remedy and/or mitigate the Damage that has been caused; identifies the potential for further Damage to occur, and, describes actions that will be taken to avoid further Damage.

(c) Provide a copy of the report prepared under (b) above, to the Manager and the asset owner within 10 working days of notification under (a) above.

ADVICE NOTE:

It is anticipated the Consent Holder will seek the permission of the damaged asset owner to access the property and asset to enable the inspection/investigation. It is understood that if access is denied the report will be of limited extent.

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RC.4, RC.5

EC.1

A Lizard Management Plan (LMP) shall be prepared and submitted to the Manager for certification at least 10 working days prior to the commencement of any vegetation works.

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a) The LMP Plan shall be designed to achieve the following two objectives:

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(i) The population of each species of native lizard present on the site at which vegetation clearance is to occur must be maintained or enhanced, either on the same site or at an appropriate alternative site; and

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(ii) The habitat(s) that lizards are transferred to (either on site or at an alternative site, as the case may be) will support viable native lizard populations for all species present pre-development.

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b) To achieve the objectives of the LMP the management plan shall address the following (as appropriate):

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(i) Credentials and contact details of the ecologist/herpetologist who will implement the plan.

(ii) Timing of the implementation of the LMP.

(iii) A description of methodology for capture and relocation of lizards rescued including but not limited to: salvage protocols, relocation protocols (including method used to identify suitable relocation site(s)), diurnal capture protocols, supervised habitat clearance/transfer protocols, and opportunistic relocation protocols.

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		<p><u>(iv) A description of the relocation site: including discussion of:</u></p> <ul style="list-style-type: none"><u>A. provision for additional refugia, if required e.g. depositing salvaged logs, wood or debris for newly released skinks that have been rescued;</u><u>B. any protection mechanisms (if required) to ensure the relocation site is maintained (e.g.) covenants, consent notices etc;</u><u>C. any weed and pest management to ensure the relocation site is maintained as appropriate habitat.</u> <p><u>(v) Triggers for monitoring, monitoring methods and reporting, as necessary.</u></p>
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Appendix A – Stormwater Specification Manufactured Treatment Device Radial Medial Filled Filter Cartridge