

IN THE ENVIRONMENT COURT
AT WELLINGTON
I TE KŌTI TAIAO O AOTEAROA
KI TE WHANGANUI-A-TARA

Decision No [2022] NZEnvC 221

ENV-2021-WLG-000039

IN THE MATTER

of the direct referral of applications for resource consents and Notices of Requirement under Sections 87G and 198E of the Resource Management Act 1991 for the Riverlink Project

BY

NEW ZEALAND TRANSPORT AGENCY
WELLINGTON REGIONAL COUNCIL
HUTT CITY COUNCIL
KIWIRAIL HOLDINGS LIMITED
Applicants

Court: Alternate Environment Judge C J Thompson
Environment Commissioner D J Bunting
Environment Commissioner K A Edmonds

Date of Decisions and Issue: 3 November 2022

FINAL DECISIONS OF THE COURT

- A: The Notices of Requirement (see paras [22] – [25] of the decision of 25 August 2022) are confirmed with the Conditions as approved in this decision.
- B: The Resource Consents (see para [26] of the decision of 25 August 2022) are granted with the Conditions as approved in this decision.



[1] In a decision issued on 25 August 2022 the Court indicated that, subject to the resolution of some issues about conditions, the Notices of Requirement set out in paras [22] – [25] of that decision would be granted. Similarly, it indicated that the Resource Consents sought and set out in para [26] of that decision would be granted, again subject to the resolution of issues about some conditions. The Court directed that a revised set of conditions should be prepared and distributed among the parties for comment before being sent to the Court.

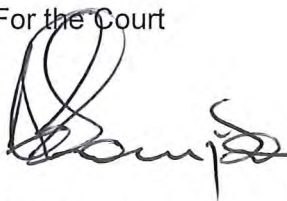
[2] The parties have followed the process outlined in that decision and the applicants have now presented sets of conditions which have been adapted to deal with the matters the Court raised, and with some of the issues raised by other parties.

[3] The Court issued a minute on 21 October 2022 directing some final changes to conditions. Final conditions were lodged on 2 November 2022, and a final set of design drawings were also lodged on 2 November 2022.¹

[4] Subject to those conditions, the Notices of Requirement sought are granted, as are the Resource Consents. The final set of conditions is attached to this decision.

[5] Costs (including possible costs under s285(5) RMA) are reserved. Any applications are to be lodged by 18 November 2022 and any responses are to be lodged by 2 December 2022.

For the Court



C J Thompson

Alternate Environment Judge



¹ The Applicants lodged final conditions on 28 October 2022, but later noted that a typographical error had been made in Condition 3, and corrected that in a set of conditions lodged 2 November 2022.

Conditions: 2 November 2022

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1. Definitions and explanation of terms

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

Abbreviation/acronym	Term
AADT	Average annual daily traffic The equivalent to the total volume of traffic passing a roadside observation point over the period of a calendar year, divided by the number of days in that year for which traffic volumes were recorded. Measured in vehicles per day.
AEE	Assessment of environmental effects
AEP	Annual exceedance probability
AHMP	Archaeological and Heritage Management Plan
AAIMP	Artesian Aquifer Interception Management Plan
AMP	Avifauna Management Plan
Application	The notices of requirement and applications for resource consents and supporting information lodged for RiverLink
Aquitard	A geologic formation (layer) of low hydraulic conductivity that lies above an aquifer and that allows only a small amount of liquid to pass. If the aquitard is very thick and impermeable then it is often called an Aquiclude
Berm	The area of land between the river bed and inner toe of the stopbank.
CAQMP	Construction Air Quality Management Plan
CEMP	Construction Environmental Management Plan
Certification	Certification is confirmation from a council that a management plan meets the requirements of the conditions of the consents or designations that relate to it.
CLSMP	Contaminated Land Site Management Plan
CMA	Coastal Marine Area
CNVMP	Construction Noise and Vibration Management Plan
Completion of Construction	When construction of the Project (or the relevant part of the Project) is complete and available for use.
Consent Holder	Holder of the resource consent and / or the Requiring Authority for the designation
Construction Works	Activities undertaken to construct the Project under these designations/resource consents, excluding Enabling Works
CPTED	Crime Prevention Through Environmental Design
CTMP	Construction Traffic Management Plan
CMP	Chemical Management Plan

Abbreviation/acronym	Term
DEB	Decanting Earth Bund
District Plan	City of Lower Hutt District Plan
DOC	Department of Conservation
Dry beach	Part of the river bed not covered by water at any particular time.
DSI	Detailed site investigation
EIMP	Electrical Infrastructure Management Plan
EMP	Ecology Management Plan
Enabling Works	Includes the following and similar activities: <ul style="list-style-type: none"> - Geotechnical and land investigations including formation of access for investigations - Contaminated land remediation - Establishing site yards, site offices, site entrances and fencing - Construction site access roads - Traffic improvements in the Lower Hutt city centre - Demolition and removal of buildings and structures; and - Relocation of services.
ESCP	Erosion and Sediment Control Plan
EWCEMP	Enabling Works Construction Environmental Management Plan
Fish passage	The movement of fish between the sea and any river, including up-stream or downstream in that river.
Flowing channel	Part of the river channel where water is flowing in the general path of the river course
GMP	Groundwater Management Plan
GWRC	Greater Wellington Regional Council
HAIL	Hazardous Activities and Industries List
HCC	Hutt City Council
HNZPT	Heritage New Zealand Pouhere Taonga
HSR	Highly sensitive receiver, as defined in the Transport Agency Guide to assessing air quality impacts from state highway projects (2015)
IMP	Invertebrate Management Plan
MWSG	Mana Whenua Steering Group
Manager	The Manager, Environmental Regulation GWRC and/or the Team Leader, Resource Consents HCC (as relevant) or their authorised delegate
MfE	Ministry for the Environment

Abbreviation/acronym	Term
MSE	Mechanically stabilised earth
NES	National Environmental Standard
NESF	Resource Management (National Environmental Standards for Freshwater) Regulations 2020
NES Soil	Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011
New Melling Station	The station to replace the existing Melling station, in the new location. This includes relocating and refurbishing the existing station building
Noise Sensitive Activity	any: 1. residential activity; 2. visitor accommodation, boarding house or other premises where residential accommodation for five or more travellers is offered at a daily tariff or other specified time; or 3. childcare facility
NoR	Notice(s) of Requirement
NZS 6803	New Zealand Standard NZS 6803:1999 “Acoustics – Construction Noise”
NZS 6806	New Zealand Standard NZS 6806:2010 “Acoustics – Road traffic noise – New and altered roads”
Outline Plan	An outline plan prepared in accordance with section 176A of the RMA
Operational and Maintenance work	Any work or on-going maintenance required once the construction of the Project and post construction surveillance monitoring, is complete
Project	The construction, operation and maintenance of the RiverLink Project and associated works
Project area	The area within the proposed designation boundaries, and immediate surrounds to the extent Project works extend beyond this boundary
PPFs	Protected premises and facilities
PNRP	Proposed Natural Resources Plan for the Wellington Region
PSI	Preliminary site investigation
PWA	Public Works Act 1981
River bed	The space of land which the waters of the river cover at its fullest flow without overtopping its banks.
River channel	Part of the river bed covered by water at any particular time.
River corridor	Area of land between the top of the left and right stopbanks. Broadly this includes (1) the river bed; and (2) the land area between any river bed and the stopbank

Abbreviation/acronym	Term
	adjacent to the river bed; and (3) where there is no stopbank adjacent to the river bed.
RiverLink Geotechnical Methodology	The drilling and monitoring methodology approved under Condition 8 of WGN180466 on 6 March 2019 and the subsequent approval memorandum dated 8 October 2019 which replaced the requirement for monitoring via vibrating wire piezometers with more frequent visual inspections
RMA	Resource Management Act 1991
Schedule	Is a Schedule to the Construction Noise and Vibration Management Plan, prepared following certification of the management plan, in consultation with the owners and occupiers of sites subject to the Schedule, where noise and/or vibration is predicted or measured to exceed the limits in Conditions 54 and 55
Sediment yield	That sediment which leaves the sediment retention devices and enters the receiving environment
Segregated path	A form of shared path for pedestrians, cyclists and other active mode users where paint or surface treatment along with signage and/or markings is used to define areas for different users
Separated path	A path for pedestrians, cyclists and other active mode users where raised structures (e.g. kerbs), vegetation, or a space are used to separate different users
SH2	State Highway 2
Shared Path	A shared path for pedestrians, cyclists and other active mode users
SQEP	Suitably qualified and experienced practitioners for the purposes of the assessment of contaminated land (Guidance on what is expected of the SQEP is provided in the <i>NES Soil Users' Guide 2012</i>)
SRP	Sediment retention pond
SSESCP	Site Specific Erosion and Sediment Control Plan
SSF	Super silt fences
SSTMP	Site Specific Traffic Management Plans
SOMP	Stormwater Operation and Maintenance Plan
Stage(s)	A specific works area or new land or river disturbing activity associated with the construction of the Project as nominated by the Consent Holder
Standing water channel	Part of the river channel where water is separated from the flowing channel by a structure (typically a bund or barrier)
Start of Construction	The time when Construction Works (excluding Enabling Works) commence

Abbreviation/acronym	Term
Suitably Qualified Person	A person (or persons) who can provide sufficient evidence to demonstrate their suitability and competence in the relevant field of expertise
SVR	Site Validation Report
TMP	Traffic Management Plan
TSS	Total suspended solids
TTM	Temporary traffic management
Ūranga	A landing providing a more formalised access to Te Awa Kairangi
ULDF	Urban and Landscape Design Framework
VWP	Vibrating wire piezometer
Waka Kotahi	Waka Kotahi NZ Transport Agency

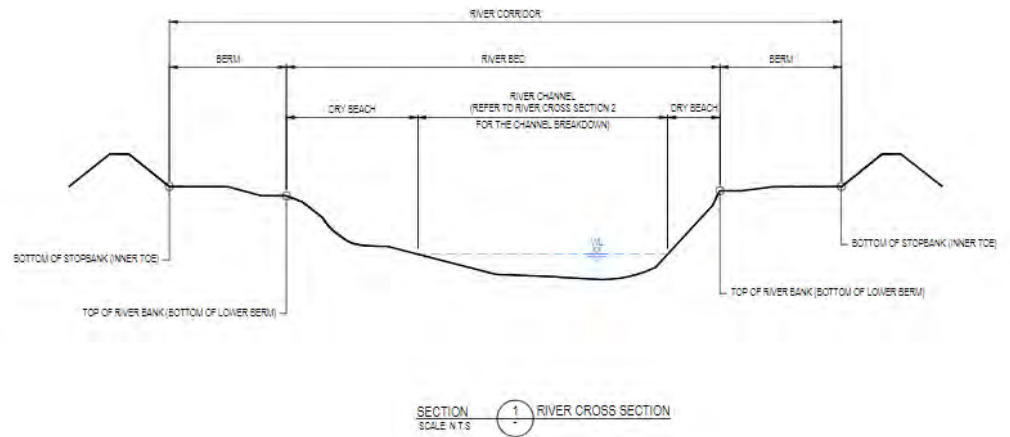
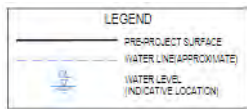


Figure 1 River definitions

2. General conditions

Condition number	Condition	Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
1.	The designations lapse if not given effect to within 5 years from the date on which they are included in the District Plan under section 175 of the RMA.	D
2.	Pursuant to section 125(1) of the RMA (and where relevant in accordance with section 116 of the RMA), the lapse dates for the various resource consents is 5 years.	RC + NES
3.	<p>Except as modified by other conditions, the Project must be undertaken in general accordance with the following design drawings:</p> <p>General Layout Plan – A16-4381: C201-C205 Rev H (5 sheets)</p> <p>General Layout Plan (larger scale) – A16-4381-C209-C211 Rev H (3 sheets)</p> <p>Stormwater Overview Plan A16-4831: C320 Rev D (1 sheet)</p> <p>Proposed Drainage Service Works – A16-4831: C321 Rev E, C322 Rev F, C323 Rev E and-C324 Rev E (4 sheets)</p> <p>Stormwater Treatment Typical Details - A16-4831: C361-C363 Rev C (3 sheets)</p> <p>Vegetation Disturbance and Bldg Removal Plan - A16-4831: G012- G013 Rev G (2 sheets)</p> <p>SH2 Underpass General Arrangement - A16-4831: S101-S102 Rev C (2 sheets)</p> <p>River Bridge General Arrangement – A16-4831: S201-S202 Rev C (2 sheets)</p> <p>Pedestrian and Cycle Bridge Indicative Plan – A16/4381-L501-L503 Rev H (3 sheets)</p> <p>Stopbank Layout Plan and Riverworks – A16-4831: SB151 Rev G, SB152–SB154 Rev F, SB155 Rev G, SB156-SB158 Rev F (8 sheets)</p> <p>River Cross Sections - A16-4831: SB400-SB418 Rev H, SB419-SB433 Rev G (34 sheets)</p> <p>Stopbank Typical Cross Sections - A16-4831: SB700 Rev C (1 sheet)</p> <p>Indicative Carpark Layout Plan Melling Stub – A16-4381- C601 Rev A (1 sheet)</p> <p>Typical Cross Section Melling Stub – A16-4381-C411 Rev A (1 sheet)</p> <p>Layout Plan Mills Street – A16-4381-C605 Rev A (1 sheet)</p>	D + RC

Condition number	Condition	Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
	<p>Layout Plan and Longitudinal Section (MCV0) 760 Western Hutt Road (Casa Loma) – A16-4381-C591 Rev D (1 sheet)</p> <p>Cross Sections (MCV0) 760 Western Hutt Road (Casa Loma) – A16-4381-C801-804 Rev A (4 sheets)</p> <p>Layout Plan and Longitudinal Section (MC8A) 125 Western Hutt Road (Lochaber) – A16-4381-C595 Rev A (1 sheet)</p> <p>Cross Sections (MC8A) 125 Western Hutt Road (Lochaber) – A16-4381-C811-814 Rev A (4 sheets)</p> <p><i>Copies of the above plans can be found at www.riverlink.co.nz</i></p> <p>An Outline Plan under Section 176A of the RMA may be prepared and submitted for any works not included within this condition, or for any works not in general accordance (in whole or part) with the listed design drawings.</p> <p><i>Advice Notes:</i></p> <p><i>For the avoidance of doubt, none of these conditions prevent or apply to works required for the ongoing operation or maintenance of the Project following construction. Depending upon the nature of such works, Outline Plans or Outline Plan waivers may be required for any such works.</i></p> <p><i>With the exception of the mandatory Outline Plan requirements set out in conditions 3A and DH4, the documentation provided in support of the Notices of Requirement for the designations contains all the information that would be required to be provided with an Outline Plan under Section 176A of the RMA, therefore no separate Outline Plans for construction will be submitted.</i></p>	
3A.	<p>The Requiring Authorities must submit an Outline Plan of Work (or Plans) to the Manager for all cycle paths, shared paths and footpaths, pedestrian and cycle road crossing points, and all other intended active transport routes in accordance with section 176A of the RMA.</p> <p>As part of the Outline Plan application, the following information must be provided:</p> <ul style="list-style-type: none"> a) detailed design drawings that are in general accordance with the drawing entitled Indicative Active Transport Plan Long Plot Rev J and in accordance with the purposes and design standards set out in condition 36A, subject to design development directed by (b) to (g) below; 	D

Condition number	Condition	Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
	<p>b) details of safe and direct Active Transport connection points to the road network at the following locations:</p> <ul style="list-style-type: none"> i. SH2 at Melling interchange to / from river path; ii. To Kennedy Good Bridge. The detailed design drawings must also illustrate connections beyond the new and altered designation areas illustrated on designation drawings A16-4381-D131-138 (and outside of the Outline Plan scope) to provide context for how cyclists will continue journeys to/from: <ul style="list-style-type: none"> - SH2 north of Kennedy Good Bridge or any extended northern cycle route that may be in the planning / construction stage at that time, and - Major Drive; iii. Harbour View Road to Melling interchange bridge and new Melling river bridge to Queens Drive, including segregated paths across the interchange and new Melling Bridge; iv. Melling Station area where pedestrians and cyclists are expected to cross roads; and v. Proposed pedestrian/cycle bridge to city centre within the new designation area illustrated on designation drawing A16-4381-D132 (i.e. to / from the local road network or any wider east-west cycle route that may be in the planning / construction stage at the time); and vi. Design development of the three active mode connections shown along Pharazyn Street to address the following matters: <ul style="list-style-type: none"> - safety for all modes - consider combining the two crossings at and south of Melling Station, if practicable, or otherwise consider linked controls - ideally there should be no delay to crossing users however minimal delays are acceptable if safer - consider turning movements of adjacent side roads and accessways 	

Condition number	Condition	Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
	<p>- review provision and location of the cycle path connection north of Melling Station;</p> <p>c) Location of entrance, and provision for, an articulated truck to enter, travel along and exit the service lane serving 57-71 Pharazyn Street;</p> <p>d) Details of traffic signal phasing to minimise active mode delays at Melling interchange;</p> <p>e) For separated, segregated and shared paths within the river corridor, provide details on what measures, including signage and markings, will be used to support minimising risk of conflict between users;</p> <p>f) Details of feedback received from the Project Design Liaison Group (PDLG), as per condition 14A, and a list of any matters not adopted (in whole or part) along with the reasons for any departure from the PDLG advice.</p> <p>g) An investigation of all mode's safety mitigation measures along Queens Drive between, and at the intersections of, Rutherford Street and High Street including consideration of temporal separation for cyclists for the intersections of Rutherford Street and Queens Drive and High Street and Queens Drive. The Consent Holder must also ensure a good level of service for all modes at these intersections.</p> <p>h) Details on how the transition between, and across, path types will be managed, including signs or marking, to maximise safety for cyclists and pedestrians.</p>	
	Management Plan process	
4.	<p>a) The Consent Holder must prepare, submit, have certified and comply with the management plans listed in Table 1 that satisfy the specific conditions which apply to each management plan.</p> <p>b) The preparation of all plans and all actions required by these conditions must be undertaken by a Suitably Qualified Person.</p> <p>c) The Consent Holder may prepare management plans in parts or in stages to address specific activities or to reflect the staged implementation of the Project.</p> <p>d) If the Manager's response is that they are not able to certify the Management Plan the Consent Holder may request that the Manager provide reasons and recommendations for changes to the</p>	D + RC + NES

Condition number	Condition	Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
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management plan in writing. The Consent Holder may then consider any of the reasons and recommendation of the Manager and resubmit a revised Management Plan to be certified.

e) Should certification of a revised plan (or part or stage) be refused, then the Consent Holder may, within 10 working days of the refusal, engage a suitably qualified, mutually acceptable independent expert to resolve the matters in dispute. The expert must resolve the matters within 10 working days of being engaged and his or her decision is final. The cost of such a process will be met by the Consent Holder.

f) The Consent Holder must not commence Project Works within the area to which a management plan applies until the required management plan(s) has been certified, unless the period for certification set out in Table 1 has elapsed a deemed certification applies as identified in that table.

Advice note: Management plans must be emailed to notifications@gw.govt.nz or resourceconsents@huttcity.govt.nz and include the consent reference number.

Advice note: Any preliminary works which are permitted activities can be undertaken prior to the certification of any management plans.

Table 1: Management Plan and other plan/processes Table

Management Plan	Decision pathway	When to submit	Who to submit to / certify	Expected consent authority response time	Duration for implementation
Communications Plan and Site Specific Communication Plans –	For information purposes only	Prior to Enabling or Construction Works	HCC GW	N/A	Duration of Project

Condition number	Condition						Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
	conditions 18, 19A, 19B						
	Mana Whenua Values Plan - condition 13	For information purposes only	Prior to management plan preparation	HCC GW	N/A	Duration of Project	
	Enabling Works Construction Environmental Management Plan(s) (optional, only if CEMP not done at commencement of Enabling Works) – condition 20	Certification	Prior to the start of relevant Enabling Works	HCC GW	10 working days	Duration of Enabling Works	
	Construction Environmental Management Plan – condition 34	Certification	Prior to the start of Construction Works	HCC GW	20 working days	Duration of Construction Works	
	Erosion and Sediment Control Plan (condition 104) and any Site Specific Erosion and Sediment Control Plans (condition 105)	Certification	Prior to the start of Construction Works	GW	20 working days for the ESCP and 10 working days for SSES CPs	Duration of Construction Works	

Condition number	Condition						Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
	Groundwater Management Plan - condition 120	Certification	Prior to the start of Construction Works	GW	10 working days	Duration of Construction Works and at least one month post construction	
	Artesian Aquifer Interception Plan – condition 121	Certification	Prior to the start of piling work	GW	10 working days	Duration of piling activity	
	Ecology Management Plan - condition 73	Certification – subject to deemed certification in the event that no response has been received from the Manager and a seasonal window for undertaking activities applies to the	Prior to the start of Construction Works	GW	20 working days (and subject to deemed certification)	As specified in Ecology Management Plan	

Condition number	Condition						Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
		relevant Construction Activities.					
	Stream Offset Plan – condition 83	For certification	Prior to start of Construction Works affecting Harbour View Stream	GW	20 working days	Duration of Construction Works and operation	
	Construction Traffic Management Plan (condition 37), including any Site Specific Traffic Management Plans (condition 38)	For information purposes only (will be certified by road controlling authorities)	Prior to the start of Construction Works / Prior to using the relevant public road	HCC	As required by road controlling authorities (HCC and Waka Kotahi)	Duration of Construction Works	
	Construction Noise and Vibration Management Plan - condition 54	For certification	Prior to the start of Enabling and Construction Works	HCC	10 working days	Duration of Construction Works	
	Archaeological and Heritage Management Plan – condition 52	Certification	Prior to the start of Enabling and	HCC	10 working days	Duration of Enabling Works and	

Condition number	Condition						Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
			Construction Works			Construction Works	
	Contaminated Land Site Management Plan – condition 43	Certification	Prior to the start of Enabling and Construction Works	HCC GW	10 working days	Duration of Enabling Works and Construction Works	
	Construction Air Quality Management Plan – condition 49	Certification	Prior to the start of Construction Works	HCC + GW	10 working days	Duration of Construction Works	
	Urban and Landscape Master Plan (ULMP) and Site Specific Design Plans (where required design detail is not available at time of ULMP submission) – condition 63	Certification	Prior to the start of Construction Works / prior to construction of specific elements (for Site Specific Design Plans)	HCC + GW	20 working days	Through out design, construction and operation of the Project	

Condition number	Condition						Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
	Stormwater Operation and Maintenance Plan – condition COH1 and COW2	For certification	Prior to completion of Construction Works	GW		Throughout operation of the Project	
	Parking Review – condition 35	For information	Prior to start of Construction Works	HCC			
	Transitional Parking Plan – condition 36	For information	Prior to start of Construction	HCC		Throughout construction and operation of the Project	
	Electrical Infrastructure Management Plan	For information	Prior to start of Construction within 50 metres of the HAY-MLG-B transmission line	GW and HCC	N/A	Duration of construction within 50 metres of the HAY-MLG B transmission line	
	Melling Station Conservation Plan	For information	Prior to start of construction	GW and HCC	N/A	Duration of Project	
5.	Any certified management plan may be amended, if necessary, to reflect any non-material changes in design, construction methods or management of effects without the need for certification. For clarity, non-material changes are where;						D + RC + NES

Condition number	Condition	Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
	<p>a) the amendment/s have no, or a de minimis adverse effect on the environment; or</p> <p>b) the amendment is an administrative change, including nominating personnel; and</p> <p>c) the revised management plan is provided to the Manager and, if within ten (10) working days of receiving the revised management plan, the Manager has not advised in writing that the amendment requires certification under condition 6, with reasons, then any Construction Works or Enabling Works may proceed.</p> <p>Any changes to the management plans must not be contrary to the purposes and performance standards of the management plan and the conditions.</p>	
6.	<p>Any material changes to a certified management plan must be submitted in writing to the Manager for certification at least 10 working days prior to those amendments being intended to be implemented.</p> <p>A material change will include a change to any base information informing the management plan or any process, procedure or method of the management plan, which has the potential to noticeably change the nature, location or duration of adverse effects on a particular receiver or receiving environment.</p>	D + RC + NES
7.	<p>Except as provided for in condition 5, amendments to management plans must be certified in writing by the Manager prior to the commencement of any works to which the amended management plan(s) relate.</p>	D + RC + NES
8.	<p>All management plans identified in condition 12 must describe how they have taken into account Kaitiaki principles and feedback from the Mana Whenua Steering Group (MWSG).</p>	D + RC
	Review of conditions	
9.	<p>a) The Manager may, under section 128 of the RMA, initiate a review of any or all conditions of the resource consents, at any time within six months of the first, second, third, fourth and fifth anniversaries of the commencement of Construction Works.</p> <p>b) A review of conditions under clause (a) may allow for the consideration of the following:</p> <p style="padding-left: 40px;">i. the modification of monitoring activities, including the frequency of the monitoring; and</p>	RC

Condition number	Condition	Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
	ii. the deletion, amendment or addition of new conditions as necessary to avoid, remedy, or mitigate any adverse effects.	
	Mana Whenua	
10.	<p>At least six months prior to the anticipated commencement of Construction Works, the Consent Holder must invite Mana Whenua to establish a Mana Whenua Steering Group (MWSG) for the Project. The following parties must be invited to include representatives on the MWSG:</p> <ul style="list-style-type: none"> a) Port Nicholson Block Settlement Trust, on behalf of Taranaki Whānui ki Te Upoko o Te Ika (Taranaki Whānui); and b) Te Rūnanga o Toa Rangatira Incorporated, on behalf of Ngāti Toa Rangatira. 	D + RC
11.	<p>The purpose of the MWSG is to:</p> <ul style="list-style-type: none"> a) Facilitate ongoing engagement with Mana Whenua in respect of the activities authorised by the designations and resource consents; b) Provide an opportunity for Mana Whenua to provide kaitiaki inputs into the Project as set out in conditions 12 and 13; and c) Ensure appropriate tikanga and kawa (customary practices and protocols) are being applied throughout the development and implementation of the Project. 	D + RC
12.	<p>The MWSG must be invited to hold regular meetings (monthly or as otherwise agreed) throughout the Construction Works until at least six months after completion of construction, to participate in the following:</p> <ul style="list-style-type: none"> a) Development of the Project design to incorporate cultural values into elements such as: <ul style="list-style-type: none"> i. Cultural expression in artwork, landscape works and plantings to be confirmed in the final Urban and Landscape Master Plan (ULMP) under condition 63 for the Project; ii. Implementation of biodiversity mitigation, offset, or compensation measures; iii. Signage describing local features and the history of the area; b) Input to the Communications Plan with respect to methods of engaging with iwi and hapū; c) Endorsement that the following management plans are consistent with the Mana Whenua Values Plan required by condition 13: 	D + RC

Condition number	Condition	Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
	<ul style="list-style-type: none"> (i) Construction Environmental Management Plan (ii) Erosion and Sediment Control Plan (iii) Groundwater Management Plan (iv) Artesian Aquifer Interception Management Plan (v) Ecology Management Plan (vi) Archaeological and Heritage Management Plan (vii) The Stream Offset Plan <p>d) Preparation of the On-Call Procedure (as required by condition 53 and any updates to this Protocol;</p> <p>e) Development and implementation of agreed cultural protocols / tikanga appropriate to stages of the works or activities (for example: blessings, unmonitored discoveries, vegetation clearance, relocation of native flora and fauna); and</p> <p>f) Observation and input to monitoring activities, and active management responses (if triggered under condition 88) including providing input for cultural indicators covering matters such as (but not limited to) traditional association, mahinga kai and river and stream health measures through input to the applicable Ecology Management Plan/supporting plans.</p>	
13.	<p>A Mana Whenua Values Plan must be prepared for the construction phase of the Project by a Suitably Qualified Person identified in consultation with the MWSG.</p> <p>The purpose of the Mana Whenua Values Plan is to set out the cultural monitoring requirements and measures for the construction phase of the Project, to acknowledge the cultural values of the area to Mana Whenua and to minimise potential for adverse effects on these values. The Mana Whenua Values Plan must include:</p> <ul style="list-style-type: none"> a) requirements and measures, related to the RiverLink Kaitiaki Strategy; b) an outline of the historic and living cultural values of the area to mana whenua and measures to minimise potential adverse effects on these values; c) specific factors and/or cultural monitoring activities to be addressed in the Plans identified as requiring Mana Whenua input in condition 12 above related to: 	D + RC

Condition number	Condition	Applies to designation (D), regional resource consent(s) (RC) or district NES Soil consent (NES)
	<ul style="list-style-type: none"> i. potential effects on taonga or other species of significance to MWSG ii. opportunities to use natural materials in the Project design ii. opportunities to participate in activities (e.g. planting, translocation, ecology monitoring, etc) iv. any other matters or measures to avoid or mitigate potential adverse effects on Mana Whenua values, customs and practices; d) site dedications or cultural interpretation to be undertaken prior to Construction Works commencing in areas identified as having significance to mana whenua; e) cultural protocols and procedures for cultural inductions; f) confirmation of the roles and responsibilities of personnel in respect of clauses (d) and (e). 	

3. Construction conditions

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	Project Liaison	
14.	A Project Liaison Person (or persons) must be established for the duration of Enabling Works and Construction Works to be the main and readily accessible point of contact for persons interested in, or affected by, Enabling and Construction Works. The Project Liaison Person's contact details must be provided to the Manager, readily available via the Project website and	D + RC + NES

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	they must be contactable during business hours throughout the Enabling and Construction Works.	
14A.	<p>Prior to commencing detailed design, a Project Design Liaison Group (PDLG) must be established.</p> <ul style="list-style-type: none"> a) The PDLG must hold monthly meetings or at an alternative frequency agreed by all members of the PDLG. b) The PDLG ceases at the completion of Construction Works, or sooner where agreed by all members of the PDLG. <p>The purpose of the PDLG is to promote safe and user suitable cycle and pedestrian facilities, consistent with the scope of works illustrated on the drawing entitled "Indicative Active Transport Plan Long Plot Rev J".</p> <p>The role of the PDLG is:</p> <ul style="list-style-type: none"> c) To provide a forum to share information and seek feedback on the detailed design related to cycling, walking and accessibility; d) For the parties listed below to raise issues of concern or identify opportunities for the Project team to respond to. <p>Where comments are received within 10 working days of the Consent Holder requesting comments or holding a meeting, the Consent Holder must consider them and provide comments back either accepting any suggestions or, if not, explaining why. When preparing the Outline Plan required by Condition 3A, the Consent Holder must include within this a list of matters not resolved (in whole or part) with reasons.</p> <p>The PLDG must include the following parties from the Project team:</p> <ul style="list-style-type: none"> e) Consent Holder representative(s) from Waka Kotahi, Greater Wellington and Hutt City Council; f) A representative from the construction contractor/design team (when appointed); <p>Up to two representatives from the following entities must be invited to participate in the PLDG process:</p> <ul style="list-style-type: none"> g) Mana Whenua Steering Group (MWSG) h) Port Nicholson Ponake Cycling Club Inc i) Hutt Cycle Network j) Disabled Persons Assembly k) Living Streets Aotearoa <p>If no response is received from one or more of the above parties within 10 working days of the invitation, the Consent Holder may proceed to form the PDLG without them.</p>	D
	Complaints Register	
15.	The Consent Holder must maintain a register of any complaints received alleging adverse effects from, or related to, construction activities. The	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>register must include:</p> <ul style="list-style-type: none"> a) The name, phone number and address (where this has been provided) of the complainant; b) The nature of the complaint (as provided by the complainant); c) Location, date and time of the complaint and of the alleged event (where this has been provided); d) Weather conditions at the time of the event, including wind direction and approximate wind strength if the complaint relates to air quality or noise and/or where weather conditions are relevant to the complaint; e) The outcome of the Consent Holder investigation into the complaint; f) Measures taken to respond to the complaint or confirmation of no action if deemed appropriate; g) Any other activities in the area, unrelated to the Project, which may have contributed to the complaint (such as construction undertaken by other parties, fires, traffic accidents or any unusual atmospheric conditions generally); h) Actions (if any) to be taken in the future to prevent occurrences of similar events and complaints. 	
16.	<p>The Consent Holder must:</p> <ul style="list-style-type: none"> a) Promptly investigate, identify the urgency associated with the complaint and communicate that to the complainant; b) Promptly respond to complaints related to Construction Works as appropriate to the circumstances; c) The investigation and response in a) and b) may be combined if multiple complaints are made or a series of related complaints are made; d) Take reasonable steps to remedy or mitigate the matters giving rise to the complaint if there are reasonable grounds for the complaint within 10 Working Days of receiving the complaint or such sooner time as may be reasonably necessary in the circumstances; and e) The Consent Holder must also maintain a record of its responses and any remedial actions undertaken <p>This record must be maintained on site and must be made available to the Manager upon request.</p>	D + RC
17.	A copy of the Complaints Register must be made available to the Manager upon request.	D + RC
Communications Plan		
18.	<p>The Consent Holder must prepare a Communications Plan for the construction phase of the Project.</p> <p>The purpose of the Communications Plan is to provide a framework to:</p>	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<ul style="list-style-type: none"> a) Inform the community and stakeholders of construction programme and progress; b) Set out how the public and stakeholders (including directly affected and adjacent owners and occupiers of land) will be communicated with throughout the Enabling and Construction Works; c) Engage with the community in order to foster good relationships; d) Provide information to public transport users through relevant channels of construction related disruption to bus and rail services; e) Provide people with information about alternative access and travel options during Construction Works; f) Provide early information on key Project milestones; g) Respond to queries and complaints in accordance with conditions 15 and 16. <p>The Communications Plan must be updated at least annually throughout the construction of the Project.</p>	
19.	<p>As a minimum, the Communications Plan must include:</p> <ul style="list-style-type: none"> a) Details of the Project Liaison Person or other contact person(s) available on site at all times during Enabling and Construction Works; b) Details of the contact person(s) with responsibility for ongoing maintenance of cycle and pedestrian paths constructed as part of RiverLink, the preferred means for users to communicate maintenance requirements, and methods for communicating this information to path users upon completion of Construction Works; c) A list of stakeholders who will be communicated with, including emergency services; d) Details of communication activities proposed; e) Meetings with community and stakeholder representatives; f) Details of the Project website, or equivalent virtual information source, for providing information to the public; g) Details of the complaint management process as set out in conditions 15-17; h) Linkages to consultation set out in other conditions where relevant; i) Methods to communicate with nearby residents and businesses prior to and during Construction Works, including an offer to meet with them to discuss and explain construction noise and vibration and to invite them to provide comments, and in particular those residents and businesses identified following the clarification and identification process to be undertaken under Condition 57C(g), and / or properties where the potential for exceedance exists of Category B vibration limits shown in condition 55. 	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>j) Methods to consult with and to communicate the proposed hours of construction activities outside normal working hours and on weekends and public holidays to affected residents and businesses;</p> <p>k) Methods to communicate with affected businesses in the central business area, including the Harvey Norman Centre, on management measures and responses during the construction period;</p> <p>l) Methods to record concerns raised about hours of construction activities and, where practicable, methods that avoid particular times of day which have been identified as being particularly sensitive for residents and businesses;</p> <p>m) Methods for engagement with the Riverbank Market Operators including a description of arrangements to satisfy condition 124 and enable continuity of market operations prior to and during Construction Works affecting the Riverbank Carpark;</p> <p>n) Methods to communicate appropriate messaging to the public regarding the removal of the existing Melling Station and the construction of the New Melling Station, and access (vehicle, cyclist and pedestrian) to them during the construction of the Project;</p> <p>o) Methods to communicate appropriate messaging to the public regarding walking and cycling access across the construction area and along the Te Awa Kairangi corridor during construction of the Project; Communications should assist pedestrians and cyclists to identify a safe and efficient route through the area to key destinations and enable people using the area for recreation to plan their activity and if necessary be directed to alternative locations;</p> <p>p) In conjunction with Wellington Fish and Game, methods to communicate with anglers and potential anglers on trout fishing access restrictions during construction works and a suggested time period for avoiding the affected area, as well as promoting alternative angling options nearby;</p> <p>q) Methods of engagement with Lower Hutt parkrun, prior to and during construction works affecting the area from the south end of the Riverbank carpark to Ewen bridge, to enable continuity of parkrun events;</p> <p>r) Methods to communicate Project updates to the local Te Kakano O Te Aroha marae and Te Runanga o Toa Rangitira communications officer;</p> <p>s) Any stakeholder specific communication plans or procedures;</p> <p>t) Monitoring and review procedures for the Communications Plan to maintain its currency.</p>	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
19A.	<p>The Consent Holder must prepare a Site-Specific Communications Plan to communicate with Paul and Jennifer Officer, the owners of 'Casa Loma' at 760 Western Hutt Road.</p> <p>The purpose of the Site Specific Communications Plan is to require ongoing and timely engagement with the Officers as appropriate during detailed design and construction relating to access to, and works adjacent to, their property at 760 Western Hutt Road, including, but not limited to discussions regarding vegetation and tree clearance, landscaping, stormwater design, wind turbulence and velocity, emergency vehicle access and management and construction timing and programme.</p>	D + RC
19B.	<p>The Consent Holder must prepare a Site-Specific Communications Plan to communicate with the owners of the Harvey Norman Centre.</p> <p>The purpose of the Harvey Norman Centre Site-Specific Communications Plan is to foster good relationships and provide timely Project information and enable agreed solutions to be developed wherever practicable.</p> <p>As a minimum, the Harvey Norman Centre Site-Specific Communications Plan must include:</p> <ul style="list-style-type: none"> a) The nature and timing of works to close the Riverbank car park (including when access to it from the Harvey Norman Centre will be removed); b) The nature and timing of closures or works along Rutherford Street that may affect access to or from the Harvey Norman Centre; c) The timing and design for the Melling Link stub road car park; d) The timing and design for the stopbank construction immediately adjoining the Harvey Norman Centre; e) Methods for the property owner to communicate any dates and / or times that are particularly sensitive to construction activities, prior to and once construction works are underway; and f) Monitoring and review procedures for the plan to maintain its currency. <p>The Consent Holder must provide the owner of the Harvey Norman Centre with a draft of the Harvey Norman Centre Site-Specific Communications Plan for comment. Any comments must be provided to the Consent Holder within 10 working days of receipt or the Consent Holder may continue to finalise the Harvey Norman Centre Site-Specific Communications Plan. If comments are received within 10 working days the Consent Holder must consider them and provide comments back either accepting any suggestions or, if not, explaining why. The Consent Holder must invite the owner of the Harvey Norman Centre to meet (in person or virtually) within 5 working days of the invite to go through the response if there are any outstanding issues, to ascertain if these can be further resolved. In preparing the final Harvey Norman Centre Site-Specific Communications Plan the Consent Holder must</p>	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	respond to owner of the Harvey Norman Centre within it a list of matters not resolved (in whole or part) with reasons.	
	Enabling Works	
20.	<p>Should the Construction and Environmental Management Plan (CEMP) and supporting specialist management plans not be completed and certified at the commencement of any Enabling Works, the Consent Holder may undertake Enabling Works pursuant to an Enabling Works Construction Environment Management Plan provided:</p> <ul style="list-style-type: none"> (i) The works comply with all relevant Construction Conditions, except for those requiring management plans or other plans to be prepared, other than those identified in condition 21; and (ii) A Suitably Qualified Person or persons are engaged to prepare an Enabling Works Construction Environmental Management Plan or Plans (EWCEMP). <p>The purpose of the EWCEMP is to confirm the management procedures and construction methods to be used, to avoid, remedy or mitigate potential adverse effects arising from Enabling Works.</p>	D + RC
21.	<p>The EWCEMP must include:</p> <ul style="list-style-type: none"> a) Roles and responsibilities of construction management staff, including the overall manager responsible for Enabling Works; b) An outline of the activities and programme for the Enabling Works; c) A description of training and induction requirements for all site personnel (including employees, sub-contractors and visitors) to inform and train all persons undertaking Enabling Works of potential environmental issues and how to avoid remedy or mitigate potential adverse effects; d) Communication and interface procedures during Enabling Works; e) Measures to be adopted to maintain all land affected by Enabling Works in a tidy condition in terms of disposal / storage of rubbish, storage and unloading of construction materials and similar activities; f) The location of any site offices, site amenities, locations and procedures for refuelling activities, and site access; g) Means of providing for the health and safety of the general public and protecting the stability of surrounding land, buildings and structures during Enabling Works; h) Procedures for the safe removal of any asbestos material during building removal/demolition in compliance with the requirements of the Health and Safety at Work (Asbestos) Regulations 2016; 	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>i) Procedures for responding to complaints or incidents arising from Enabling Works in accordance with Complaints Register conditions 15 - 17;</p> <p>j) An Air Quality Management Plan (CAQMP) relevant to the Enabling Works unless the Project-wide Air Quality Management Plan required by condition 49 has already been completed and certified at the commencement of the Enabling Works;</p> <p>k) A Construction Noise and Vibration Management Plan (CNVMP) relevant to the Enabling Works unless the Project-wide Construction Noise and Vibration Management Plan required by condition 57B has already been completed and certified at the commencement of the Enabling Works;</p> <p>l) A Contaminated Land Site Management Plan for managing disturbance and associated discharges of contaminated or potentially contaminated land expected to be encountered during Enabling Works, unless the Project-wide Contaminated Land Site Management Plan required by condition 43 has already been completed and certified at the commencement of the Enabling Works;</p> <p>The Contaminated Land Site Management Plan must be prepared by a SQEP in accordance with the requirements of the Ministry for the Environment's <i>Contaminated Land Management Guideline No. 1: Reporting on contaminated sites in New Zealand (Revised 2021)</i>.</p> <p>m) Methods to address the safety, integrity, protection and (where necessary) the relocation of existing network utilities. This must include any specific measures and advanced notification requirements agreed with asset owners;</p> <p>n) An On-Call Procedure consistent with condition 53 and an Archaeology and Heritage Management Plan relevant to any heritage items identified in condition 52 that may be affected by Enabling Works;</p> <p>o) Details of any proposed geotechnical investigations to be carried out as Enabling Works (which are subject to conditions 22 to 33).</p>	
	Geotechnical investigations	
22.	<p>Prior to undertaking any geotechnical investigations involving bore/CPT testing, the Consent Holder must engage a Suitably Qualified Person to prepare a detailed technical report detailing the location of proposed investigations and the procedures and mitigation measures proposed to ensure that the Taita Alluvial and Waiwhetu Artesian aquifers are protected during any geotechnical investigations. The technical report must include but not be limited to:</p> <p>a) a description of the depth and technique that will be employed;</p>	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>b) a description of the purpose of the drilling fluid monitoring and how success/failure will be measured;</p> <p>c) a description of mitigation measures in the event drilling fluid leaks/spills;</p> <p>d) an assessment of the potential effects of any bentonite and cement used in the sealing of the investigations on the aquifer;</p> <p>e) a methodology for monitoring the effectiveness of the sealing process both immediately (during construction) and in the long term;</p> <p>f) an assessment of the mitigation options available should sealing of the aquifer(s) be unsuccessful;</p> <p>g) a description of how the contractor will identify if the CPT's do not effectively self-seal and require the addition of bentonite clay;</p> <p>h) a description of how the sealing of bores/CPT's will be monitored;</p> <p>i) a description of the measures to be used to assess if the CPT/bore seal is stable;</p> <p>j) confirmation of the method for calculating the density of the grout in the annulus between the dual-casing to ensure persistent groundwater flows are not experienced; and</p> <p>k) a description of the relevant turbidity levels required to stop works and the processes that are (or will be) in place to ensure works stop in a timely manner.</p> <p>l) Where investigations are required in the bed of Te Awa Kairangi/ Hutt River the following additional information is required:</p> <p style="padding-left: 40px;">i. a detailed description of how the river will be protected from drilling mud, oil leaks from drilling equipment and spills during, or as a result of, the drilling process; and</p> <p style="padding-left: 40px;">ii. a description of how any bore will be constructed and maintained to ensure it is sealed against the flow of the river.</p> <p><i>Advice notes:</i></p> <p><i>Points (a) – (k) above can be readily satisfied through adopting the certified drilling and monitoring methodology prepared by Griffiths Drilling, dated 18 February 2019, certified under WGN180466 on 6 March 2019 and the subsequent approval memorandum dated 8 October 2019 which replaced the requirement for monitoring via vibrating wire piezometers with more frequent visual inspections.</i></p> <p><i>However, Point (l) above would require the submission of new information to demonstrate how Te Awa Kairangi / Hutt River can be protected during investigations.</i></p>	
23.	No drilling works may commence until the technical report in condition 22 has been certified in writing by the Manager.	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
24.	<p>At least 5 working days prior to any bore/CPT being drilled, the Consent Holder must notify the Wellington Regional Council to provide them with an opportunity to provide a Wells Number. In the notification the Consent Holder must include:</p> <ul style="list-style-type: none"> a) The consent reference number; b) The name and contact number of a contact person responsible for the proposed investigation(s); c) A plan illustrating the location(s) of the bore(s)/CPT(s), including the NZTM map reference; d) The maximum depth of the bore(s)/(CPT(s) to be constructed; e) The maximum diameter of the bore(s)/(CPT(s); f) The purpose of the bore(s)/(CPT(s); and g) The proposed drill date for the bore(s)/CPT(s). 	RC
25.	<p>Prior to any investigation bore or CPT being drilled, the Consent Holder must provide to the driller who will construct the bore or CPT, a copy of this consent and a Well Drillers' Bore Log form for completion.</p>	RC
26.	<p>All bore(s)/CPT(s) must be constructed and maintained in accordance with the New Zealand Environmental Standard for Drilling of Soil and Rock (NZS 4411:2001) and the methods and measures approved in the technical report required by condition 22 of this consent.</p>	RC
27.	<p>Bore(s)/CPT(s) must be decommissioned and backfilled in accordance with clause 2.7 of the New Zealand Environmental Standard for Drilling of Soil and Rock (NZS 4411:2001) and the methods and measures certified in the technical report required by condition 22 of this consent.</p>	RC
28.	<p>In the event that the consent holder penetrates the aquitard during drilling, the Consent Holder must ensure the section of the bore/CPT within the aquitard is filled and sealed prior to backfilling in accordance with the approved measures and methodologies outlined in condition 22 of this consent.</p>	RC
29.	<p>Within one month after completion of drilling activities, the Consent Holder must submit to the Manager a copy of the Well Drillers' Bore Log form as completed by the driller who constructed each bore/CPT.</p>	RC
30.	<p>In the event drilling is occurring in contaminated or potentially contaminated land the Consent Holder must ensure that a Suitably Qualified Environmental Practitioner (SQEP) is supervising the drilling of the top 3 metres of soil to ensure potentially contaminated material is appropriately managed. If contaminated, or potentially contaminated, material is discovered at a depth of greater than 3 metres during drilling, works must cease. The SQEP must make recommendations regarding the handling and disposal of the contaminated material to ensure contamination of land and water is avoided. In addition:</p>	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>a) the Manager must be notified of the discovery and the actions that are to be taken, within 48 hours of the discovery,</p> <p>b) no works may resume within 50 m of the affected bore/CPT until the Consent Holder has received written notice that the recommendations are to the satisfaction of the Manager unless no response has been received from the Manager after 10 working days, and</p> <p>c) all subsequent works must be undertaken in accordance with the recommendations approved under this consent condition.</p>	
31.	Deleted.	
32.	The Consent Holder must ensure that any residual contaminated material from drilling is removed from site and disposed of at an appropriate facility.	RC
33.	The Consent Holder must ensure that the drilling equipment is cleaned between drilling of each bore/CPT site with Decon90 detergent/ disinfectant.	RC
Construction Environmental Management Plan		
34.	<p>The Consent Holder must prepare a Construction Environmental Management Plan (CEMP). The purpose of the CEMP is to confirm the management procedures and construction methods to be used in order to avoid, remedy or mitigate potential adverse effects arising from Construction Works. The CEMP will be developed from the draft CEMP submitted in support of the application.</p> <p>The CEMP must include:</p> <ul style="list-style-type: none"> a) Roles and responsibilities of construction management staff, including the overall manager responsible for environmental management; b) Details of the construction programme and the staging approach for Construction Works; which, if practicable and efficient, must provide for construction of the stopbank within 50 metres either side and in front of the property at 39A Mills Street and associated services trench early within the construction programme; c) General site layout; d) Proposed hours of work and key construction times throughout the duration of Construction Works that require specific management procedures or methods; e) A description of training and induction requirements for all site personnel (including employees, sub-contractors and visitors) to inform and train all persons undertaking Construction Works of potential environmental issues and how to avoid remedy or mitigate any potential adverse effects; f) Internal communication and interface procedures; g) Relationship and linkages to other Management Plans listed in other conditions; 	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>h) Measures to be adopted to maintain all land affected by Construction Works in a tidy condition in terms of disposal / storage of rubbish, storage and unloading of construction materials and similar activities;</p> <p>i) Weed hygiene protocols to prevent the introduction or spread of weeds into or out of the site e.g. washing of machinery prior to mobilization and demobilisation.</p> <p>j) The location of construction site infrastructure including site offices, site amenities, locations of refuelling activities, locations of plant maintenance activities, contractors' yard access, equipment unloading and storage areas, contractor car parking and security;</p> <p>k) Flood protection methods to maintain the existing level of flood protection during Construction Works. Where a level of flood protection is required for short duration works (e.g. culvert installation through existing stop banks) that is lower than the current level provided, this must be agreed to by GW Flood Protection;</p> <p>l) Procedures and triggers that will be in place to ensure that, in the anticipation of a flood event, construction equipment is removed from the flood plain to avoid flood waters mobilising equipment, materials or machinery;</p> <p>m) Methods for monitoring rainfall forecast, rainfall depth and river flow levels;</p> <p>n) Methods for rapid stabilisation of any disturbed area within the floodplain post a flood event;</p> <p>o) Means of providing for the health and safety of the general public (including protection of pedestrians, cyclists and rail passengers from slip and trip hazards, noise, fumes, and other hazards), and protecting the stability of surrounding land, buildings and structures;</p> <p>p) Procedures for the refuelling and maintenance of plant and equipment;</p> <p>q) 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 procedures;</p> <p>r) Methods to address the safety, integrity, protection and (where necessary) the relocation of existing network utilities. This must include any specific measures and advanced notification requirements agreed with asset owners;</p> <p>s) Procedures for incident management including accidental spills;</p> <p>t) Gravel storage areas and process plant locations</p> <p>u) Methods for removal of debris and demolition or construction materials from public roads, paths or places;</p> <p>v) Stockpile, storage areas and process plant locations;</p>	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>w) Definition of areas and structures that are excluded and protected from the effects of proposed works, including:</p> <ol style="list-style-type: none"> 1. The Bridge Street Wesleyan Methodist Cemetery, 2. The possible greater extent of the Bridge Street Cemetery not required for the road realignment at 57 Marsden Street from earthworks (not excluding building removal which is permitted) 3. The (former) Lower Hutt Post Office building 4. The Lower Hutt Civic Centre Historic Area 5. Casa Loma – 760 Western Hutt Road 6. Lochaber – 125 Western Hutt Road <p>x) A site-specific dewatering assessment for all works that may encounter groundwater, and must include the following as a minimum:</p> <ol style="list-style-type: none"> 1. Depth at which groundwater and the aquitard is expected to be encountered within the area of proposed excavation 2. Duration, location, volume and rate of dewatering required 3. Quality of water to be discharged 4. Effects of land subsidence 5. Effects on surface water bodies and interference effects on lawfully existing water takes, 6. Measures to avoid and/or mitigate any potential adverse effects from dewatering activities and appropriate discharge of pumped water, and 7. For dewatering on sites that contain contaminants above levels for human health and ecological receptors, testing to assess contaminant levels. 8. Groundwater level monitoring requirements and trigger levels required during dewatering. <p>y) Methods for providing for the health, safety and amenity of adjoining residents and their properties during construction.</p> <p>z) Methods for updating the CEMP as required.</p>	
	Traffic and Transport	
35.	Prior to Construction Works commencing, the Consent Holder must undertake a review of public parking within and immediately adjacent to the Project area to collect and analyse data and understand user characteristics of the off and on street parking in the Project area.	D

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>The purpose of the parking review is to provide direction and information for the Transitional Parking Plan and to support decisions about the appropriate management and spatial distribution of public carparks required to:</p> <ul style="list-style-type: none"> a) support the commercial and retail business in the Lower Hutt city centre during construction and post construction of the Project with an appropriate mix of short and long-term parking, loading bays and accessible parking spaces; and b) facilitate and support a shift to multi modal transport to and from the Lower Hutt city centre. <p>The review must be completed by a Suitably Qualified Person and it must:</p> <ul style="list-style-type: none"> c) include consultation with businesses and residents in the Lower Hutt central area to understand parking user characteristics; d) consider existing and potential parking time (duration) limits; e) consider parking pricing strategy options; f) have regard to existing and future Park & Ride opportunities; g) consider signage for parking areas; h) outline potential parking enforcement strategies during and following construction of RiverLink; and i) include a parking survey to support consideration of matters in (c) to (h). The parking survey will be used to inform the Transitional Parking Plan required by condition 36 and it must meet the following requirements: <ul style="list-style-type: none"> i. be undertaken for a minimum period of 24 days between 7:00am to 8:00pm; ii. identify the length of stay of groups/patrons; iii. identify the average occupancy and peak occupancy, length of stay, parking turnover ratio; iv. Identify the location(s) of the most frequented and used on and off street parking in the Lower Hutt city centre; v. identify where the on and off carparks are in authorised time zone limits; vi. identify the existing parking pricing strategy for each area; vii. where apparent, identify non-residential parking activity in nearby residential streets; and viii. identify the demand and location(s) used for parking to access the river corridor for recreational use. j) The parking survey methodology must be developed in consultation with Hutt City Council's Head of Transport. 	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
36.	<p>The Consent Holder must prepare a Transitional Parking Plan. The purpose of the Transitional Parking Plan is to:</p> <ul style="list-style-type: none"> a) To minimise the loss of public parking during construction; and b) To support a transition to non-car transport options to enable access during and post construction. <p>The Transitional Parking Plan must be prepared by a Suitably Qualified Person and it must include, but not be limited to:</p> <ul style="list-style-type: none"> c) Methods to manage the loss of public parking as a result of construction of RiverLink, including identifying and providing temporary parking facilities and undertaking construction in a way that delays disruption to public parking where practicable; d) Provision for appropriate short-stay recreation parking, on street areas adjacent to suitable river corridor access points; e) Provision for disabled parking, including at Melling Station; f) Options to enable a transition from parking dependency to more sustainable and active transport modes; g) Methods to monitor mode shift and travel behaviour change during and upon completion of the Project works. <p>The Transitional Parking Plan must be completed ahead of the Construction Traffic Management Plan (CTMP) required by conditions 37 and 38, and with adequate time to allow for implementation of any relevant mitigation methods ahead of construction works commencing.</p>	D
36A.	<p>The detailed design for active transport facilities within the Project (and the Outline Plan required by condition 3A) must, at a minimum, accommodate the predicted user volumes in 2050 and achieve the following outcomes, as far as practicable:</p> <ul style="list-style-type: none"> a) safe and direct routes in general accordance with the drawing entitled Indicative Active Transport Plan Long Plot Rev J for cyclists b) safe, direct and accessible routes in general accordance with the drawing entitled Indicative Active Transport Plan Long Plot Rev J for pedestrians <p>The Consent Holder must provide through detailed design, as far as practicable, that the active transport facilities safely and efficiently integrate with appropriate wider Hutt Valley active transport networks.</p> <p>The following design standards apply to the active transport facilities throughout the new and altered designation areas illustrated on designation drawings A16-4381-D131-138:</p> <ul style="list-style-type: none"> c) All new and modified shared paths and segregated and separated cycle paths illustrated on the drawing entitled Indicative Active Transport Plan Long Plot Rev J must be surfaced in asphalt or concrete. 	D

Condition number	Condition	Applies to designation (D) or resource consent (RC)										
	<p>d) All new and modified pedestrian and cycle facilities, including the proposed pedestrian and cycling bridge, must be designed and constructed to provide a minimum width of:</p> <ul style="list-style-type: none"> i. 3m for cycle paths ii. 3m for cycling and 2m for pedestrians and a vegetated strip between for the separated path from the new Melling Station to 300 m south of Belmont School iii. 4m for the lower shared path from Ewen Bridge to new Melling Bridge, adjacent to the true left bank of the river iv. 3.5m for the shared path on top of the stopbank on the true right bank, between Ewen Bridge and new Melling Bridge v. 3m for shared paths elsewhere vi. 3m for cycling and 2m for pedestrians and a vegetated strip between these paths for the separated path on the true left bank between the new Melling Bridge and Kennedy Good Bridge, except for approximately 165m where site constraints and safety factors may necessitate a section of segregated path of a minimum width of 4m behind the Transpower site vii. 3m for the KiwiRail cycle path apart from an approximately 160m section by the Normandale Bridge where a narrower path width will be required; <p>unless localised narrowing is required to accommodate specific constraints.</p> <ul style="list-style-type: none"> viii. 2m for footpaths unless localised narrowing is required to accommodate specific constraints in which case no less than 1.2 m, for a length of no more than 3m, is permitted to make sure the path remains accessible for its intended purpose ix. For the route from the new Melling Station to the central city and a route from an accessible parking location to the river corridor on both sides of the river, gradients must provide for disabled access in accordance with the following standards: <table border="1" data-bbox="469 1711 1386 2063"> <thead> <tr> <th>Parameter</th> <th>Definition</th> <th>Maximum value</th> <th>Requirement</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Mean gradient</td> <td rowspan="2">The change in vertical elevation measured between two points.</td> <td>Up to 3%</td> <td>No additional considerations for longitudinal gradient.</td> </tr> <tr> <td>>3% but less than 5%</td> <td>Level rest areas at least 1200 mm in length provided at least every 18 m. Note</td> </tr> </tbody> </table>	Parameter	Definition	Maximum value	Requirement	Mean gradient	The change in vertical elevation measured between two points.	Up to 3%	No additional considerations for longitudinal gradient.	>3% but less than 5%	Level rest areas at least 1200 mm in length provided at least every 18 m. Note	
Parameter	Definition	Maximum value	Requirement									
Mean gradient	The change in vertical elevation measured between two points.	Up to 3%	No additional considerations for longitudinal gradient.									
		>3% but less than 5%	Level rest areas at least 1200 mm in length provided at least every 18 m. Note									

Condition number	Condition			Applies to designation (D) or resource consent (RC)	
				that shared paths should be treated differently as frequent landings can destabilise people on bikes or scooters.	
	Maximum gradient	The change in vertical elevation measured at 0.6 m intervals along a route.	8%, over a distance no greater than 9 m. Gradients greater than 8% are increasingly difficult for many people to negotiate independently.	Treat as a ramp if exceeding the maximum. Provide wayfinding signage directing users to alternative (less steep) routes.	
	Rate of change of gradient	The total variation in slope measured at 0.6 m intervals along a route.	13%		
	<p>e) The cycle and pedestrian routes must incorporate lighting in accordance Lighting Standard AS/NZS 1158.3.1:2020 categories PP1 or PP2, where practicable. No additional light poles are to be sited in:</p> <ul style="list-style-type: none"> i. stopbanks unless agreed to by WRC, Manager, Flood Protection. ii. the floodway (i.e. the area between the stopbanks) unless agreed to by WRC, Manager, Flood Protection. iii. a manner where the minimum path widths required by (d) would be compromised; <p>Accordingly, where there is no alternative location for a lighting pole due to these or other site constraints, lighting must be to the PP4 standard, as far as practicable.</p> <p>Note – nothing in this condition prevents wider paths if the Consent Holder desires this.</p>				
36B.	Prior to construction commencing, the consent holder must demonstrate through the provision of updated traffic modelling results that the intersections of Kings Crescent with Queens Drive and Bloomfield Terrace will accommodate the forecasted traffic arising as a result of the Project at 2036 (to a 'level of service E' or better for all approaches).				D

Condition number	Condition	Applies to designation (D) or resource consent (RC)						
	<p>In the event that this level of service is unable to be achieved, the consent holder must confirm mitigation measures (e.g. a programme for future works to improve these intersections, broader mode change initiatives to reduce background traffic levels, etc).</p>							
36C.	<p>The Consent Holder must undertake Detailed Design and Post-Construction Road Safety Audits in line with Waka Kotahi procedures for all new and modified road infrastructure, modified pedestrian and cycle facilities (including those within the river corridor, for cyclists on SH2 and the cycle route connecting back to SH2 at or north of Kennedy Good Bridge and Major Drive), and modified property accesses. The audits should include consideration of disabilities (particularly the visually impaired and the mobility impaired).</p> <p>Any significant or serious matters arising from the road safety audits as a result of the Project within the new and altered designation areas illustrated on designation drawings A16-4381-D131-138 must be addressed as far as practicable. Any recommendations applicable beyond the new and altered designation areas illustrated on designation drawings A16-4381-D131-138 must be provided to the relevant road controlled authority for information.</p>	D						
36D.	<p>The Consent Holder must engage a Suitably Qualified Person to undertake a review of the operational safety of the shared paths within the Project area once these have been in use for a minimum of 12 months after completion of Construction Works.</p> <p>The purpose of the review is to evaluate the safety of the shared paths within the Project and to recommend any mitigation measures that may be warranted to respond to significant or serious safety concerns arising between path users.</p> <p>Any recommended mitigation measures arising from the review to respond to significant or serious safety concerns must be implemented as far as practicable, where within the new and altered designation areas illustrated on designation drawings A16-4381-D131-138. The results of the shared paths review must be reported to the Manager and a redacted as necessary by law copy provided by email to Port Nicholson Poneke Cycling Club Inc and Hutt Cycle Network.</p>	D						
36E.	<p>Disabled car parking spaces must be provided in the detailed design of all new or altered off-street carparks. These disabled car parking spaces are to be provided as a minimum at the following rates:</p> <table border="1" data-bbox="469 1809 1386 1993"> <thead> <tr> <th data-bbox="469 1809 927 1895">Total number of car parking spaces</th> <th data-bbox="927 1809 1386 1895">Minimum number of accessible car parking spaces</th> </tr> </thead> <tbody> <tr> <td data-bbox="469 1895 927 1946">1-20</td> <td data-bbox="927 1895 1386 1946">1</td> </tr> <tr> <td data-bbox="469 1946 927 1993">21-50</td> <td data-bbox="927 1946 1386 1993">2</td> </tr> </tbody> </table>	Total number of car parking spaces	Minimum number of accessible car parking spaces	1-20	1	21-50	2	D
Total number of car parking spaces	Minimum number of accessible car parking spaces							
1-20	1							
21-50	2							

Condition number	Condition	Applies to designation (D) or resource consent (RC)		
	<table border="1"> <tr> <td data-bbox="469 396 928 470">For every additional 50 car parking spaces beyond 50, or part thereof</td> <td data-bbox="928 396 1394 470">1</td> </tr> </table>	For every additional 50 car parking spaces beyond 50, or part thereof	1	
For every additional 50 car parking spaces beyond 50, or part thereof	1			
Construction Traffic Management Plan				
37.	<p>The Consent Holder must engage a Suitably Qualified Person to prepare a Construction Traffic Management Plan (CTMP).</p> <p>The purpose of the CTMP is to manage construction and general traffic during Construction Works to:</p> <ul style="list-style-type: none"> a) Protect public safety including the safe passage and connectivity for pedestrians and cyclists, including users of the river corridor; b) Minimise delays, diversions and disruption to vehicles, public transport users, pedestrians, cyclists and users of the river corridor; c) Maintain access for emergency vehicles; d) Minimise effects on safety, property access and parking availability, including at Belmont School and Harvey Norman Centre; and e) Inform the public about potential transport impacts consistent with the Communications Plan required by condition 18. 	D		
38.	<p>The CTMP must be consistent with the version of the <i>New Zealand Transport Agency Code of practice for temporary traffic management (CoPTTM): SP/M/010 (November 2018)</i> which applies at the time the CTMP is prepared and must include as a minimum:</p> <ul style="list-style-type: none"> a) Methods that will be undertaken to communicate traffic management measures to affected users; b) Identification of traffic management activities and sequencing proposed for the Project, including a construction staff travel plan, site access routes and site access points for heavy vehicles; c) Methods for managing traffic effects, including through temporary traffic management activities (TTM); including: <ul style="list-style-type: none"> i. Methods to provide for safe and efficient access of construction vehicles to and from construction sites, including consideration of capacity for queuing vehicles, restrictions on turning movements and sight distances; ii. Methods to maintain access to property and/or private roads where practicable, or to provide alternative access arrangements when access will not be possible; iii. Methods to minimise the effects of TTM activities on road users; iv. A description of how permanent access to the contractor's yard at 705 Western Hutt Road will be managed, including access location; temporary access for the purpose of yard establishment set up, provided this occurs outside school drop 	D		

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>off and pick up times, may occur from Kennedy Good Bridge; ongoing heavy vehicle access must be via the Block Road end of the Melling Reserve Access Road;</p> <p>v. A description of the proposed controls on truck routes, truck speeds within the site and on public roads, and operating hours;</p> <p>vi. Details of how the controls referred to in (iv) are to be implemented through the contractual agreements with vehicle operators;</p> <p>vii. Methods to identify any sites or activities that require a Site Specific Traffic Management Plan;</p> <p>viii. Methods to maintain local access during Construction Works, where practicable, in particular during the realignment of or connection to local roads, including retention of access on Block Road throughout construction until an alternate connection is available at the new interchange;</p> <p>ix. Management of adverse construction traffic effects on Pharazyn Street associated with heavy vehicle movements to and from Site Compound B;</p> <p>x. Methods to maintain bus and user access, turnaround locations and set down areas for bus routes (including school buses) where practicable and an assessment and mitigation for any significant increase to public transport journey time and reduced journey time and timetable reliability during construction;</p> <p>xi. Methods for temporary road closures, with road closures to be carried out at times of lowest traffic, at night if practicable;</p> <p>xii. Methods to identify how impacts on the road network from construction related light vehicle movements will be managed during peak traffic periods;</p> <p>xiii. Methods to identify how impacts from construction related heavy vehicle movements on traffic flow and level of service of the road network will be managed, including methods to minimise use of Connolly St for heavy construction vehicles;</p> <p>xiv. Measures to maintain, where practicable, safe and clearly marked pedestrian and cyclist access on roads, footpaths and the river corridor during Construction Works, including to satisfy condition 125 relating to the Hutt River Trail. Where detours for pedestrian and cyclists are necessary, any detours must be the shortest and most convenient while maintaining the safety of pedestrians and cyclists.;</p>	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>xv. Details of staff training and induction regarding the safety of road users, pedestrians and cyclists during construction and any specific access requirements;</p> <p>xvi. Measures to notify users of the existing public transport, pedestrian and cyclist facilities of any changes to those facilities;</p> <p>xvii. Parking management consistent with the Transitional Parking Plan required by condition 36 and which provides for at least one public access point to the western side of the river, and parking, between the Ewen Bridge and Kennedy Good Bridge at any time during the construction period;</p> <p>xviii. A traffic monitoring methodology with delay and volume thresholds used to trigger changes to temporary traffic management to ensure an identified acceptable minimum level of service for movement through the Hutt Corridor;</p> <p>xix. methods to minimise effects of construction staff and contractor parking on all-day public parking availability, including in the Boulcott area and on the streets north of Railway Avenue; and</p> <p>d) Auditing, monitoring and reporting requirements relating to TTM activities.</p>	
	Site Specific Traffic Management Plan	
39.	<p>The Consent Holder must engage a Suitably Qualified Person to prepare a Site Specific Traffic Management Plan (SSTMP) for any specific locations or activities identified in the CTMP, prior to start of Construction Works affecting the relevant activity or area.</p> <p>The purpose of the SSTMP(s) is to identify specific construction methods to comply with the CTMP and to address the particular circumstances, local traffic and community travel demands within the area covered by the SSTMP.</p> <p>A SSTMP must be prepared for the Harvey Norman site and its surrounds to provide methods for:</p> <ul style="list-style-type: none"> - safe and efficient access to the Harvey Norman Centre for deliveries, servicing, staff and customers throughout construction; and - temporary carparking locations as appropriate during construction. <p>The Consent Holder must invite Harvey Norman to appoint an independent Suitably Qualified Person to whom, if appointed, the Consent Holder must provide a draft of the SSTMP for comment. Any comments must be provided to the Consent Holder within 10 working days of receipt or the Consent Holder may continue to finalise the SSTMP. If comments are received within 10 working days the Consent Holder must consider them and provide comments back either accepting any suggestions or, if not, explaining why.</p>	D

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	The Consent Holder must invite the Suitably Qualified Person to meet (in person or virtually) within 5 working days of the invite to go through the response and see if any issues can be resolved or narrowed. In preparing the final SSTMP the Consent Holder must include within it a list of matters not resolved (in whole or part) with reasons.	
40.	<p>SSTMPs must include, where appropriate:</p> <ul style="list-style-type: none"> a) Temporary traffic management measures required to manage impacts on road users, including pedestrians and cyclists, during proposed working hours; b) Assessment of delays and additional distance associated with the proposed closure/s and detour routes; c) The capacity of any proposed detour route(s) and their ability to carry the additional traffic volumes likely to be generated as a result of construction of the Project and any known safety issues associated with the detour route, including any mitigation measures the Consent Holder proposes to put in place to address any identified safety issues; d) Measures to maintain existing vehicle and pedestrian access to adjacent properties and businesses; e) Measures to maintain safe and clearly identified pedestrian and cyclist routes adjacent to the Works. Where detours are necessary to provide such access the Consent Holder must provide for suitable surfacing and the shortest and most convenient detours it is reasonably practicable to provide; f) Measures to maintain passenger transport services and facilities, including school bus routes; g) Measures to ensure timely access to the Hutt Hospital is maintained h) Any proposed temporary changes in speed limits; i) Provision for safe and efficient access of vehicles to and from construction site(s); and j) Measures that will be undertaken by the Consent Holder to communicate traffic management measures to affected road users and stakeholders, in accordance with the Communications Plan required by condition 18. 	D
	Contaminated Land Site Management	
41.	Prior to any Enabling or Construction Works commencing the Preliminary Site Investigation (PSI) must be updated and submitted to the Manager for certification. The update to the PSI must be prepared by a SQEP in accordance with the requirements of the Ministry for the Environment's Contaminated Land Management Guideline No. 1: Reporting on contaminated sites in New Zealand (Revised 2021) and include but not be limited to the following:	RC + NES

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<ul style="list-style-type: none"> - the results of site walkovers - an updated council file and HAIL register review (if additional information is available) - an updated aerial photograph review (if additional photographs are available), and - updating the conceptual site model. <p>Building surveys for leaded paint and asbestos must be completed prior to Enabling Works or Construction Works within the Project area and the findings incorporated into the updated PSI (specifically, the list of HAIL sites should be updated to include these findings).</p>	
42.	<p>Detailed Site Investigations (DSIs) must be carried out as prescribed below. DSIs must be carried out at the following moderate and high risk sites and any further sites requiring DSIs identified through the update to the PSI (condition 41) before any Enabling or Construction works are commenced in moderate and high risk sites:</p> <ul style="list-style-type: none"> - 22A Mills (PT Lot 1 DP 65603) - Portion of 0 Mill Street (Lot 3 DP 3286) - 58 Mills Street (Lot 2 DP 87322 1/10 SH Lot 6 DP 3286 OUTSIDE STOP BANK) - 5 Daly Street (LOT 6 DP 12645) - 58 Pharazyn Street (Units 1-3 DP 71813 ON LOT 1 DP 5878431) - 60-62 Pharazyn Street (LOT 2 DP 90483) - 68 Pharazyn Street (PT Lot 1 DP 16593) - 72 Pharazyn Street (Part Lot 1 DP 16593) - 49 Rutherford Street (PT Lot 4 DP 20998) - 69-95 High Street (PT Lot 1 DP 64789, Lots 1 and 2 DP 17049, Lots 1-3 DP 19893 and Section 1 SO 38172) - 59 Marsden Street (LOT 2 DP 471637) - Adjacent to 40 Marsden Street (PT SEC 24 Hutt DIST) - Adjacent to 69-95 High Street (PT LOT Lot 1 DP 64789, Lots 1 and 2 DP 17049, Lots 1-3 DP 19893 and Section 1 SO 38172) - At Daly Street and Andrews Avenue intersection - 1-100 Hutt River (PT ASS 16081/999 SOUTH BLOCK) - The Melling railway line close to the station <p>The DSIs must be undertaken in general accordance with the requirements of the Ministry for the Environment's Contaminated Land Management Guideline No. 5: Site investigation and analysis of soils (Revised 2021). The DSI reports must be prepared by a SQEP in accordance with the requirements of the Ministry for the Environment's Contaminated Land Management Guideline No. 1: Reporting on contaminated sites in New</p>	RC + NES

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>Zealand (Revised 2021). The DSI report must be submitted to and certified by the Manager, and any recommendations undertaken.</p> <p>The location of sites confirmed above as requiring a DSI are identified in the Preliminary Site Investigation, RiverLink report prepared by Tonkin + Taylor, dated May 2021 (Figures A.5-A.8, Appendix A).</p>	
43.	<p>Prior to the start of Enabling or Construction works a Project wide Contaminated Land Site Management Plan (CLSMP) must be prepared by a Suitably Qualified and Environmental Practitioner (SQEP) in accordance with the requirements of the Ministry for the Environment's Contaminated Land Management Guideline No. 1: Reporting on Contaminated Sites in New Zealand (Revised 2021). As a minimum the CLSMP must include:</p> <ul style="list-style-type: none"> a) A summary of the Preliminary Site Investigation information; b) A summary of soil sampling works undertaken and the findings of the DSIs; c) A description of how the CLSMP relates to other relevant management plans (i.e. the GMP, CAQMP, the ESCP and any SSESCP); d) Roles and responsibilities of the parties involved in the land disturbance activities, including the SQEP; e) Methods for any further soil testing required at contaminated sites; f) A description of potential and known hazards arising from contamination; g) Specific management methods developed for disturbance of land in contaminated and any other potentially contaminated soils within the Project area including: <ul style="list-style-type: none"> i. On site soil management practices, including rules for the onsite reuse of soil; ii. Off-site soil transport and disposal; iii. Personal protection and monitoring; iv. Management of dust and odour including details of where measures are covered in other plans; h) Procedures to avoid, remedy and mitigate adverse effects from contaminated soils entering storm water, groundwater or surface waterbodies; i) Procedures for identifying and managing unexpected soil contamination; j) Post-construction controls (if required); and k) Emergency procedures and contact details for emergency services 	RC + NES
43A.	<p>Where the detailed site investigation concludes that remediation is required, a Remedial Action Plan (RAP) must be prepared by a SQEP in accordance with the requirements of the Ministry for the Environment's Contaminated</p>	RC + NES

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	Land Management Guideline No. 1: Reporting on contaminated sites in New Zealand (Revised 2021). The RAP must be submitted to the Manager for certification prior to the commencement of remedial works.	
44.	Deleted	
45.	Off-site disposal or treatment of contaminated soil and material must be at a facility licensed to accept such materials. Characterisation of soils for disposal purposes must be in accordance with the receiving facility's requirements.	RC + NES
46.	Where remediation has been completed, site validation must be undertaken in accordance with the requirements of the Ministry for the Environment's Contaminated Land Management Guideline No. 5: Site investigation and analysis of soils (Revised 2021). A site validation report must be prepared by a SQEP in accordance with the requirements of the Ministry for the Environment's Contaminated Land Management Guideline No. 1: Reporting on contaminated sites in New Zealand (Revised 2021). The site validation report must be submitted to the Manager for certification.	RC + NES
47.	In the event that known or suspected contaminated soil remains on site at the completion of works, an Ongoing Monitoring and Management Plan that is prepared by a SQEP, in accordance with the requirements of the Ministry for the Environment's Contaminated Land Management Guideline No. 1: Reporting on Contaminated Sites in New Zealand (Revised 2021), must be submitted to the Manager for certification. The plan must set out the nature, spatial extent and degree of residual contamination remaining on the site, and detail how this information will be made available to other parties who may be affected by in-ground contamination during site operations (such as service maintenance contractors and future development contractors), along with any long term water quality monitoring and discharge consent requirements.	RC + NES
	Air Quality	
48.	The discharges to air from the Project area must not result in odour or dust that is offensive or objectionable at or beyond the boundary of the Project Area.	RC
49.	<p>Prior to works commencing, the Consent Holder must engage a Suitably Qualified Person to prepare a Construction Air Quality Management Plan (CAQMP).</p> <p>The purpose of the CAQMP is to confirm the procedures and measures to be used to avoid, remedy or mitigate potential adverse effects on air quality arising from Construction Works activities and to ensure compliance with condition 48.</p> <p>The CAQMP must have regard to the construction air quality management guidance contained in the following documents:</p>	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>- Good Practice Guide for Assessing and Managing Dust, Ministry for Environment, published by the Ministry for the Environment, 2016; and</p> <p>- Guide to assessing air quality impacts from state highway projects (version 2.3) published by Waka Kotahi, October 2019.</p> <p>The CAQMP must include the following details:</p> <ul style="list-style-type: none"> a) A description of Construction Works as they relate to potential effects on air quality; b) Environmental purposes and key performance indicators of the CAQMP; c) Identification and characterisation of air contaminants and potential emissions sources associated with the works (including dust, odour, engine emissions and hazardous air pollutant emissions); d) A description of the environmental setting of the works, including identification of HSRs, heavily trafficked pedestrian areas and the Harvey Norman Centre adjacent to emission sources identified in (c) (including but not limited to those located within 200 m) and local meteorological conditions; e) A review of the risk of air quality impacts associated with emission sources; f) Procedures and measures for the following, having regard for the risks identified in (e): <ul style="list-style-type: none"> i) to manage and control dust and odour emissions from dust and odour emission sources identified in (c); ii) to manage and control engine emissions from construction vehicle and equipment emission sources identified in (c); iii) to manage and control hazardous air pollutant emissions from emission sources identified in (c) and iv) to manage and control or remedy the tracking of material onto roads and other surfaces beyond the Project Area; v) to implement remedial actions where HSRs and/or the Harvey Norman Centre is located within 200m of a construction area, and there is evidence of fugitive dust emissions which are visually impacting adjacent property; g) At a minimum, the procedures and measures described in accordance with (f) must include the following requirements: <ul style="list-style-type: none"> i) Aggregate crushing must only occur within the aggregate processing area identified on the Construction Staging Drawings, and must be located to maximise separation from and to minimise downwind exposure of HSRs, as far as practicable. 	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>ii) At the aggregate processing area, except where the crusher plant is located within a fully enclosed building, application of water (including application prior to or at the crusher box) must be in place to control dust from crusher plant at all times while the plant is in operation. Water sprays must also be in place and operated on aggregate screens and material drop points.</p> <p>iii) Measures to manage moisture content such that fine excavated material does not become dry and potentially airborne or tracked.</p> <p>iv) Any requirement for fully drying silt / fine excavated material must only occur within the aggregate processing area identified on the Construction Staging Drawings and drying of silt to a moisture content that may result in visible dust emissions must not occur within 200 m of any HSR.</p> <p>v) Application of water (or an alternative dust suppression option of equivalent effectiveness) must be used to control dust from the following activities within 200 m of HSRs:</p> <ul style="list-style-type: none"> (1) demolition of buildings or structures constructed of concrete, plaster, brick or other dust generating construction materials; (2) excavation or handling of dry material in dry conditions; (3) screening of dry material; and (4) unsealed vehicle access routes in dry conditions. <p>vi) Only wet concrete cutting must be undertaken.</p> <p>vii) Stockpile management measures must include for consideration enclosure, sheltering, covering, wet suppression and stabilisation methods. If uncovered material stockpiles are located within 200 m of HSRs they must be of no greater than 3m in height.</p> <p>viii) Except where unsealed surfaces are stabilised or treated to provide sustained control of dust emissions from vehicle movements in accordance with (viii), vehicle speeds over unsealed surfaces must be limited to no greater than 15 km/h.</p> <p>ix) Where unsealed surfaces are treated or stabilised to provide sustained control of dust emissions and the vehicle speed limit specified need not apply. Stabilisation and treatment methods are to be described in the CAQMP, including identification of stabilisation/treatment agents and procedures for application, monitoring and maintenance of surface stabilisation/treatment.</p>	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>x) Maintain sealed areas, such as yards or roadways, to minimise accumulation and deposition or tracking of dust and dirt.</p> <p>xi) Temporarily enclose the carport at 39 Mills Street during construction activities within 200 m to prevent or inhibit the deposition of dust on property stored within the carport, provided that access is made available by the property owners and occupiers.</p> <p>xii) Contingency measures to address identified and verified adverse effects on HSRs and the Harvey Norman Centre. Contingency measures may include options such as:</p> <ul style="list-style-type: none"> - Cleaning of houses; - Cleaning of other buildings and infrastructure; and - Cleaning of local roads in agreement with HCC's Road Asset Manager <p>h) A monitoring plan that as a minimum must:</p> <ul style="list-style-type: none"> i) Include provision for at least three continuous particulate monitors for use across the Project area, to provide continuous feedback in real time to Project staff in relation to ambient particulate matter concentrations associated with Construction Works activities. ii) Identify the monitoring methods, principles for siting monitors, and/or areas where continuous monitors and weather monitors will be located. iii) Include a procedure for visual inspection of dust emissions from sources identified in (c) which occur within 200 m of any HSR or the Harvey Norman Centre. The procedures must include decision making criteria to identify if dust control should be improved as needed to achieve compliance with condition 48. Provision must be made for undertaking visual inspections daily during construction activities when weather conditions are dry. <ul style="list-style-type: none"> (1) Advice note: dry conditions are when there has been less than 1 mm rain in the previous 24 hours. iv) Except where continuous access to corresponding data is obtained from a weather monitoring station operated in general accordance with AS/NZS 3580.14-2014 (Methods for sampling and analysis of ambient air - Meteorological monitoring for ambient air quality monitoring applications) or an equivalent standard at a location representative of condition in the Project Area (and within no less than 5 km of the Project Area), weather monitoring must include recording of wind direction, wind velocity and rainfall on a continuous basis (at no less than 10 	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>minute intervals) in general accordance with AS/NZS 3580.14-2014 at a minimum of one location within the Project Area.</p> <p>v) Specify trigger levels for monitoring of wind speed and particulate matter concentrations (as TSP or PM₁₀), and describe procedures for notification to staff of trigger level exceedances, investigation of causes of the exceedance and implementation of response actions. The determination of trigger levels for particulate matter concentrations is to consider the trigger levels suggested in Section 3.1.3 of the Ministry for the Environment Good Practice Guide for Assessing and Managing Dust, 2016, the method of particulate monitoring to be employed and preceding results of particulate monitoring using the employed method (where available).</p> <p>i) Contingency measures for responding to accidental or unforeseen emissions to air, plant or equipment malfunctions causing air quality impacts or ineffectiveness of measures.</p> <p>j) Roles and responsibilities for implementing the procedures and measures described in the CAQMP; and</p> <p>k) A quality assurance/quality control (QA/QC) programme for the procedures and measures described in the CAQMP to ensure risks of air quality impacts are appropriately managed, including procedures for review, audit and update or procedures and measures described in the CAQMP.</p> <p>l) Describe the keeping of records and provision of the records to the Consent Authority on request for the following:</p> <ul style="list-style-type: none"> i. any events that have resulted in visible dust across the Project Area boundary; and/or ii. exceedances of dust and wind speed monitoring trigger values; and iii. the outcome of investigations of i. and ii, and any response actions undertaken. 	
	Archaeology and Heritage	
50.	<p>a) Prior to construction works commencing, the Consent Holder must commission a Suitably Qualified Person (conservation architect) to prepare a Conservation Plan for the existing Melling Station building. The purpose of the Conservation Plan is to provide guidance on the relocation and adaptive reuse of the building as part of the New Melling Station facilities. The plan should be prepared according to the methodology described in James Semple Kerr <i>Conservation Plan: A Guide to the Preparation of Conservation Plans for Places of European Cultural Significance</i> (7th ed, Australia ICOMOS, 2013) and the <i>ICOMOS New Zealand Charter for the Conservation of Places of Cultural Heritage Value</i> (3rd ed, ICOMOS New Zealand, 2010).</p>	D

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>b) The detailed design for the New Melling Station:</p> <ul style="list-style-type: none"> i. must show how the existing Melling Station building will be relocated and conserved to form part of and / or be integrated with the New Melling Station facilities, having regard to the Conservation Plan; ii. must be guided by the appointed conservation architect and an advisor with expertise in public transport operations; iii. must provide for the existing Melling Station building to retain the same orientation to and relationship with the railway line as the existing as well as a prominent view from the west including from Western Hutt Road; iv. should as far as is reasonably practicable and subject to clause (3) below retain the following specific elements of the existing Melling Station building (listed in generally decreasing order of importance): <ul style="list-style-type: none"> I. all original external fabric of the building including roof and wall cladding, roof, wall and floor structure, timber joinery, the steel post in the south-west corner and the canopies and associated canopy fabric of the east and west elevations; II. the interior of the cafe section of the building including the timber strip flooring, walls, dado paneling, ceilings, cornices, tie rods, and enclosed braces; III. the general internal plan form of a large open space to the north with a central corridor to the south; IV. the handrails serving the existing the ramp and steps on the east and south elevations; and V. the concrete ventilation grilles to the foundation. <p>c) Notwithstanding clause (2)(d) above, the Consent Holder may carry out additions and / or alterations to the Melling Station building that it considers necessary to provide for a safe, modern and fit-for-purpose public transport hub, including to:</p> <ul style="list-style-type: none"> i. remove any asbestos or asbestos containing material (ACM) or otherwise to address risks associated with asbestos or ACM, including to meet the requirements of the Health and Safety at Work (Asbestos) Regulations 2016; ii. satisfy CPTED principles; iii. satisfy the structural stability, fire safety, access, moisture control, durability and related requirements of the Building Act 1991; iv. provide appropriate access and flow throughout the new Melling Station facilities, including access for people with disabilities; v. provide sufficient weather protection for patrons; and vi. provide suitable modern toilet and ticketing facilities. <p>d) Any additions and / or alterations including those described in clause 3 above must be carried out in consultation with the conservation architect and guided as far as is practicable by the New Zealand Historic Places Trust Pouhere Taonga <i>Sustainable</i></p>	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p><i>Management of Historic Heritage Guidance, Information Sheet 12, Alterations and Additions (2007).</i></p> <p>e) Any alterations to the existing Melling Station building fabric must be recorded in accordance with the <i>Heritage New Zealand Pouhere Taonga Archaeological Guidelines Series No. 1: Investigation and recording of buildings and standard structures level I (November 2018)</i>.</p> <p>f) The detailed design drawings must be provided to the Manager, prior to construction of the New Melling Station commencing.</p> <p><i>Advice note: It is likely that the Consent Holder will remove asbestos and ACM from the existing Melling Station building prior to its relocation. This may include removing and replacing the roof and external wall cladding. The replacement of removed materials would be guided by Information Sheet 12 and the conservation architect and public transport operations advisor as per this condition.</i></p>	
50A.	<p>Prior to construction works commencing, the Consent Holder must engage a heritage landscape architect to assist with developing the detailed design drawings for the altered accessway to Lochaber at 125 Western Hutt Road. As many of the mature trees along the boundary of this heritage property must be retained, as practicable. Where removal is required which opens up views to and from the currently screened heritage property, mitigation planting to reinstate screening must be set out on the detailed design drawings (or a separate landscape plan).</p> <p>The detailed design drawings must be certified by the Manager, prior to construction of the accessway commencing and any confirmed heritage landscape mitigation must be installed and maintained in accordance with the requirements of condition 71.</p>	D
50B.	<p>When preparing detailed design drawings of the retaining wall to be constructed adjacent to the entrance to 760 Western Hutt Road (Casa Loma) as part of the Urban and Landscape Master Plan pursuant to Condition 63, the Consent Holder must have particular regard to the heritage values of Casa Loma.</p>	D
51.	<p>No works are to be carried out on Part Section 24 Hutt DIST (Bridge Street Cemetery).</p>	D
52.	<p>The Consent Holder must engage a Suitably Qualified Person to prepare an Archaeology and Heritage Management Plan (AHMP) in consultation with HNZPT and Mana Whenua. The AHMP must identify and include:</p> <p>a) Known historic heritage and archaeological sites and places and areas of historic heritage and archaeological potential within the Project area;</p>	D

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>b) Measures to avoid or minimise adverse effects on sites and places identified in (a), including guidelines for excavation and tikanga protocols as identified by the MWSG;</p> <p>c) Methods for the recording and documenting of all heritage, archaeological and potential archaeological sites prior to Enabling and Construction Works including the buildings in Marsden, Pharazyn and Daly Streets requiring removal / demolition.</p> <p>d) Prior to its relocation or demolition, the pre-1900s building at 86 Marsden, which has been previously relocated to its current site, should be documented according to <i>Heritage New Zealand Pouhere Taonga Archaeological Guidelines Series No. 1: Investigation and recording of buildings and standard structures level II (November 2018)</i> irrespective of whether it is relocated again or demolished.</p> <p>e) The specific areas to be investigated, actively monitored by a Suitably Qualified Person and recorded to the extent they are directly affected by Enabling and/or Construction Works, including:</p> <ul style="list-style-type: none"> i. In the Maraenuku Pā area ii. In the area of Te Ahi-o-Manono Kāinga (intersection of Margaret and Daly Streets) iii. In the Connolly Street Substation area iv. Around the Hutt River Bridge Settlement area and Hutt River Bridges v. Around 289-317 High Street vi. Around 36-137 High Street vii. Around 24-40, 56 and 59-75, 58-90 Marsden Street viii. 57 Marsden Street (investigation to include ground penetrating radar) ix. In the general vicinity of 76-80 and 100 Pharazyn Street x. Bridge Street carriageway adjacent to Bridge Street Cemetery <p>f) Any pre-1900 archaeological sites or areas of archaeological potential for which an Archaeological Authority under the HNZPTA will be sought or has been granted;</p> <p>g) Roles, responsibilities and contact details of Project personnel, Mana Whenua representatives, and relevant agencies involved with heritage and archaeological matters including surveys, monitoring of Enabling and Construction Works, On-Call Procedure, and monitoring of conditions;</p> <p>h) Methods for protecting or minimising adverse effects on historic heritage and archaeological sites during Project works as far as practicable in line with the <i>ICOMOS New Zealand Charter for the Conservation of Places of Cultural Heritage Value (3rd ed, ICOMOS</i></p>	

Condition number	Condition	Applies to designation (D) or resource consent (RC)																
	<p><i>New Zealand, 2010</i>) and including construction methods that minimise vibration (for example fencing around historic heritage and archaeological sites to protect them from damage during construction);</p> <p>i) Training requirements for contractors and subcontractors on heritage and archaeological sites, legal requirements relating to unmonitored discoveries, and implementing the On-Call Procedure. The training must be undertaken under the guidance of a Suitably Qualified Person and Mana Whenua representatives through the MWSG;</p> <p>j) Pre, during and post-construction notice and reporting requirements; and</p> <p>k) Measures achieve positive heritage outcomes. Measures may include, but not be limited to increased public awareness and amenity of historic heritage sites and places, installation of interpretative material detailing specific sites and general history (including salvage and relocation of existing material), repatriation and donation of historic heritage material to suitable repositories and publication of heritage stories.</p> <p>If an Archaeological Authority has been granted by HNZPT for the Project, the archaeological elements of the AHMP must be as directed by that Authority.</p>																	
53.	<p>Prior to the start of Enabling and Construction Works, an On-call Procedure (as required by the Heritage New Zealand Pouhere Taonga Act) for unexpected archaeological or kōiwi encounters must be prepared by a Suitably Qualified Person in collaboration with Mana Whenua and in consultation with HNZPT for any unmonitored archaeological discoveries which occur across the Project site during construction activities.</p> <p>The On-Call Procedure must be consistent with the NZ Transport Agency Minimum Standard P45 Accidental Archaeological Discovery Specification (March 2015), and must be implemented throughout the Project works.</p>	D																
	Noise and Vibration																	
54.	<p>a) Construction noise must be measured and assessed in accordance with NZS 6803:1999 'Acoustics – Construction Noise'. The construction noise must comply with the following limits for the purposes of the CNVMP, except where (b) applies:</p> <p>Residential areas (including Belmont Primary School):</p> <table border="1" data-bbox="469 1794 1252 2049"> <thead> <tr> <th rowspan="2">Time of week</th> <th rowspan="2">Time period</th> <th colspan="2">Limit (dBA)</th> </tr> <tr> <th>L_{eq}</th> <th>L_{max}</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Weekdays</td> <td>6:30am – 7:30am</td> <td>55</td> <td>75</td> </tr> <tr> <td>7:30am – 6:00pm</td> <td>70</td> <td>85</td> </tr> <tr> <td>6:00pm – 8:00pm</td> <td>65</td> <td>80</td> </tr> </tbody> </table>	Time of week	Time period	Limit (dBA)		L _{eq}	L _{max}	Weekdays	6:30am – 7:30am	55	75	7:30am – 6:00pm	70	85	6:00pm – 8:00pm	65	80	D
Time of week	Time period			Limit (dBA)														
		L _{eq}	L _{max}															
Weekdays	6:30am – 7:30am	55	75															
	7:30am – 6:00pm	70	85															
	6:00pm – 8:00pm	65	80															

Condition number	Condition	Applies to designation (D) or resource consent (RC)
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	8:00pm – 6:30am	45	75
Saturdays	6:30am – 7:30am	45	75
	7:30am – 6:00pm	70	85
	6:00pm – 8:00pm	45	75
	8:00pm – 6:30am	45	75
Sundays and public holidays	6:30am – 7:30am	45	75
	7:30am – 6:00pm	55	85
	6:00pm – 8:00pm	45	75
	8:00pm – 6:30am	45	75

Industrial and commercial areas:

Time period	Limit (dBA L _{eq})
7:30am – 6:00pm	70
6:00pm – 7:30am	75

b) Where compliance with the noise limits above is not practicable, then the preparation of a Schedule in accordance with the methodology in condition 57D applies.

55.

a) Construction vibration must 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'*.

The construction vibration must comply with the following *BS5228-2:2009 'Code of Practice for Noise and Vibration Control on Construction and Open Sites – Part 2: Vibration'* limits for the purposes of the CNVMP, except where (b) and (c) applies:

Receiver	Location	Details	Category A	Category B
Occupied PPFs	Inside the building	Night-time 2000h – 0630h	0.3 mm/s ppv	1 mm/s ppv
		Daytime 0630h – 2000h	1 mm/s ppv	5 mm/s ppv
Other occupied buildings	Inside the building	Daytime 0630h – 2000h	2 mm/s ppv	5 mm/s ppv
Unoccupied buildings	Building foundation	Vibration – transient	5 mm/s ppv	BS 5228-2 Table B.2

D

Condition number	Condition				Applies to designation (D) or resource consent (RC)
			Vibration – continuous	BS 5228-2 50% of Table B.2 values	
56.	<p>b) Where compliance with the vibration limits in Category B is not practicable, then the preparation of a Schedule in accordance with the methodology in Condition 57E applies.</p> <p>c) Surgical procedures carried out at PetVet’s premises at 53 Rutherford Street may necessitate the application of a lower (more onerous) vibration criterion.</p>				D
57.	Driven piling works for the construction of the new Melling Bridge and proposed pedestrian bridge are to be restricted to 7.30am – 6pm Monday to Friday, as far as practicable.				D
57A.	<p>A Suitably Qualified Person is to determine the sensitivity to vibration of the buildings identified below and confirm the buildings’ classification in accordance with DIN 4150-3: 1999 Structural vibration - Part 3: Effects of vibration on structures before construction commences to allow for the BPO mitigation measures to be implemented (as needed) and define vibration levels under the CNVMP and any Schedules.</p> <ul style="list-style-type: none"> - 64, 70, 72 and 76 Victoria Street - 4 Williams Grove - 22 (Hutt City Church), 31, 39, 79, 93 and 95 Marsden Street - 34, 40, 55, 57, 57A, 59, 61, 63, 65, 67, 69 and 71 Pharazyn Street - 7 and 14 Harbour View Road - 39, 39A, 2/39B, 3/39B, 4/39B, 54A and 54B Mills Street - 17 and 19 Te Ara o Maraenuku - 1, 2/9, 3/9, 13 and 17A Connolly Street - 2, 11, 13, 14, 15, 16, 17, 19, 27, 28, 33, 41, 45, 49, 53, 59 and 60 Rutherford Street - 15 Daly Street - 11, 15, 27, 35, 37, 47, 49, 55, 65, 67 and 71 Dudley Street - 21 Andrews Avenue - 36, 54, 78, 92, 129, 137, 118-128, 148, 149-151, 157-161, 167-175, 177, 191, 215, 217, 298, 330, 336, 337, 338, 340, 365, 369, 374, 403, 412, 417 and 418 High Street 				D

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<ul style="list-style-type: none"> - 9 and 12 Margaret Street - 2 Osborne Place - 2 and 134 Queens Drive - 2 Pretoria Street - 35 Railway Avenue - 1 Market Grove - 61-69 Woburn Road (St James Church) and 75 Woburn Road - 125 and 760 Western Hutt Road and the Bridge Street Cemetery (on Part Section 24 Hutt DIST) <p>Note – this sensitivity assessment may be completed as part of any pre-condition survey of buildings, including those required by condition 57E(b)(viii)). It is required to determine susceptibility to damage from vibration and inform acceptable vibration levels for any Schedules required by condition 57E.</p>	
57B.	<p>The Consent Holder must engage a Suitably Qualified Person to prepare a Construction Noise and Vibration Management Plan (CNVMP).</p> <p>The purpose of the CNVMP must be to provide methods to manage noise and vibration appropriately for the variety of circumstances within the Project area by outlining the measures, procedures and standards for avoiding or mitigating the effects of noise and vibration during construction of the Project so they will meet:</p> <ul style="list-style-type: none"> a) The noise limits set out in condition 54. Where it is not practicable to achieve those limits, alternative strategies should be described to address the effects of construction noise on affected properties following the process outlined in condition 57D; b) The Category A vibration limits set out in condition 55. Where it is not practicable to achieve those limits, a Suitably Qualified Expert must be engaged to assess and manage construction vibration during the activity that exceeds the Category A limits. If predicted construction vibration exceeds the Category B limits, then the activity should only proceed if there is appropriate monitoring of vibration levels and effects on those buildings identified as being at risk of exceeding the Category B limits, assessed by suitably qualified experts following the process outlined in condition 57E; and c) Night time (20:00h – 06:30h) work requirements. Work in the vicinity of any noise sensitive receivers must be avoided where practicable. Where avoidance is not practicable, Best Practicable Option (BPO) measures identified by the Suitably Qualified Person must be adopted to minimise or mitigate noise and vibration effects. 	D
57C.	The CNVMP must, as a minimum, address the following:	D

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>a) Description of the works, anticipated equipment/processes and their scheduled durations;</p> <p>b) Hours of operation, including times and days when activities causing noise and/or vibration would occur;</p> <p>c) The construction noise and vibration limits and consent/designation condition requirements for the Project;</p> <p>d) the role of the local/regional authority;</p> <p>e) Identification of noise and vibration sensitive receivers including businesses which operate processes, machinery or equipment that may be unreasonably disrupted by construction vibration even where the Project vibration standards are met due to the sensitive nature of the activities (e.g. Pet Vet at 53 Rutherford Street). For any such businesses a Schedule in accordance with condition 57E must be prepared and implemented;</p> <p>f) Assessment of construction noise and vibration levels;</p> <p>g) A list of properties where the noise levels were assessed in Table 15 of Technical Assessment #10 Noise and Vibration (reproduced as Appendix A to these conditions) as potentially exceeding the relevant noise limits in condition 54 with clarification and identification of any properties no longer identified as receiving construction noise levels exceeding the limits after final construction methodologies, detailed design and mitigation measures are applied.</p> <p style="text-align: center;"><i>Advice note: Condition 57C(g) and Appendix A apply to the location identified in Table 15 Predicted unmitigated noise levels even if the street address in Appendix A is no longer current or later changes.</i></p> <p>h) Establish likely durations of exposure on a specific neighbourhood basis;</p> <p>i) A provisional list of the activity or property specific Schedules in accordance with condition 57D to be prepared where, following this clarification and identification process, the predicted construction noise level still exceeds the condition 54 limits at one or more properties. This process is to be undertaken by a Suitably Qualified Person.</p> <p>j) Requirements for building conditions surveys at locations identified under Condition 57A and other buildings where it is predicted vibration levels are capable of exceeding the requirements of DIN 4150-3:1999 Structural vibration – Part 3: Effects of vibration on structures, prior to and after completion of construction and processes for repair of any damage caused by the Construction Work;</p> <p>k) Procedures for preparation of management Schedules required by conditions 57D and 57E (as relevant) containing site specific information including for any activities or locations where it is not practicable to comply with the noise limits in condition 54, or the</p>	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>vibration Category B limits in condition 55. The procedure is to include a mechanism for certification by a Suitably Qualified Person before works are undertaken and for the appointment of that person to be agreed by the Manager to provide a mutually acceptable third-party certification process for Schedules;</p> <p>l) Mitigation options including alternative strategies where full compliance with the relevant noise and/or vibration limits cannot be achieved.</p> <p>m) Methods and frequency for monitoring and reporting on construction noise and vibration;</p> <p>n) Strategies for communications with affected properties as per the Communications Plan required by condition 18;</p> <p>o) Complaints processes as required by conditions 15-17;</p> <p>p) Operator training procedures and expected behaviours under the CEMP as required by condition 34;</p> <p>q) A quality assurance programme (schedule of inspections, audits and reviews of plan and plan implementation).</p>	
57D.	<p>a) A Schedule must be prepared by a Suitably Qualified Person, in consultation with the owners and occupiers of sites subject to the Schedule, when construction noise is either predicted or measured to exceed the limits in Condition 54.</p> <p>b) The purpose of the Schedule is to set out the BPO for the management of noise effects of the construction activity.</p> <p>c) The Schedule must as a minimum set out:</p> <ul style="list-style-type: none"> i. Construction activity location, start and finish dates; ii. The predicted unmitigated noise level for the construction activity; iii. Noise levels to be targeted by proposed mitigation measures; iv. Consultation undertaken with affected landowners and occupiers identified in the Communications Plan (condition 19(i)) to understand their sensitivities, including times, activities and locations. Consultation outcomes and how they have or have not been taken into account must be recorded; v. The mitigation options that have been selected and the options that have been discounted as being not practicable and the reasons why. The mitigation options to achieve the BPO must take into account where practicable, the use of the site and/or any operational requirements of the site. Mitigation options may include: <ul style="list-style-type: none"> a. managing times of activities to avoid night works and other sensitive times; b. feedback from affected landowners and occupiers under (iv) above and/or liaising with neighbours so they can work around specific activities; c. selecting equipment and methodologies to restrict noise; 	D

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>d. using screening, enclosures or barriers;</p> <p>vi. If, having applied the mitigations in (v) above, the noise levels are assessed by the Suitably Qualified Person as causing or are predicted to cause unreasonable disruption to occupiers, taking all of the following into account:</p> <ul style="list-style-type: none"> a. The anticipated duration and day/time of the proposed noise exceedance (e.g. once per day during daytime versus consecutive 7 days during night-time); b. The nature and type of the noise exceedance (e.g. continuous versus intermittent); c. The sensitivity of the receiver; and d. The feasibility of relocation; <p>the Consent Holder must offer relocation to the occupiers.</p> <p>vii. The proposed noise monitoring regime and processes to adopt further mitigation and management measures as appropriate to respond to outcomes of the monitoring.</p>	
57E.	<p>a) A Schedule must be prepared by a Suitably Qualified Person, in consultation with the owners and occupiers of sites subject to the Schedule, when construction vibration is either predicted or measured to exceed the Category B limits at the receivers in Condition 55.</p> <p>b) The purpose of the Schedule is to set out the BPO for the management of construction vibration effects. The Schedule must as a minimum set out:</p> <ul style="list-style-type: none"> i. Construction activity location, start and finish dates; ii. The predicted vibration level for the construction activity; iii. The vibration levels that the works must comply with to avoid material damage to affected buildings and pipe work (with reference to the sensitivity to vibration of the buildings required by Condition 57A); iv. The mitigation options that have been selected and the options that have been discounted as being not practicable and the reasons why. The mitigation options must take into account where practicable, the use of the site and/or any operational requirements of the site. Mitigation options may include: <ul style="list-style-type: none"> a. Phasing of vibration-generating activities; b. Avoiding impact pile driving and vibratory rollers where possible in vibration-sensitive areas; c. Liaising with neighbours so they can work around specific vibration generating activities; d. Selecting equipment and methodologies to minimise vibration; <p>v. If, having applied the mitigations in (iv) above, the vibration levels still exceed the Category B limits to occupiers detailed in Condition 55 and/or vibration is assessed by the Suitably Qualified Person as causing or is predicted to cause unreasonable disruption to occupiers, taking into account all of the following:</p> <ul style="list-style-type: none"> a. The anticipated duration and day/time of the proposed vibration exceedance; 	D

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>b. The nature and type of vibration exceedance; c. The sensitivity of the receiver; and d. The feasibility of relocation;</p> <p>the Consent Holder must offer relocation.</p> <p>vi. The proposed vibration monitoring regime; vii. The consultation undertaken with owners and occupiers of sites subject to the Schedule, and how consultation outcomes have and have not been taken into account. viii. The pre-condition survey of buildings subject to the Schedule (where owner and occupier agreement allows) which document their current condition and any existing damage. The Consent Holder may have already completed some pre-condition surveys concurrent with the sensitivity assessment required by condition 57A.</p>	
57F	<p>If any damage to buildings or pipe work is shown to have occurred, by reference to pre-condition survey findings (required by Condition 57E(b)(viii)), as a result of vibration from construction of the Project, any such damage shall be remedied by the Consent Holder as soon as reasonably practicable subject to any associated asset and/or owner agreement.</p>	D
57G.	<p>Harvey Norman must be provided with a copy of the draft CNVMP or any Schedule (as relevant to the Harvey Norman Centre) for comment. Any comments received by the Consent Holder within 10 working days of provision of the draft must be considered and if not accepted reasons provided in the final CNVMP or Schedule.</p>	D
57H.	<p>The detailed design for the realigned railway line must include, as far as practicable, the following vibration reducing design features:</p> <ul style="list-style-type: none"> a) New clean ballast and/or overlay of new ballast b) Concrete sleepers c) Continually welded track 	D
57I.	<p>When undertaking the detailed design of any raised traffic calming devices required within reconstructed local roads, the Consent Holder must consider opportunities to minimise vibration risk. A brief written statement summarising the design process and measures incorporated that are relevant to vibration must be provided to the Manager for information.</p>	D
	Network Utilities	
58.	<p>The Consent Holder must ensure that the Project does not adversely affect the ongoing safe and efficient operation or access to Network Utility Operations. The scope, timing and methodology for utility identification, protection and / or relocation works must be developed in consultation with the relevant Network Utility Operator.</p>	D & RC
59.	<p>The Consent Holder must consult with Network Utility Operators during the detailed design phase to identify opportunities to enable, or not preclude, the development of new or upgraded network utility facilities (including co-</p>	D & RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	location of services in shared service trenches, as appropriate) to address required levels of service for anticipated future demand where practicable to do so.	
60.	<p>The Consent Holder must satisfy the following requirements in relation to overhead transmission and distribution assets:</p> <ul style="list-style-type: none"> a) Temporary and permanent works in the vicinity of overhead transmission and distribution assets must be designed and undertaken to comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances (NZECP 34:2001); b) Temporary and permanent works must be designed to mitigate Earth Potential Rise where the use of conductive materials is required for infrastructure (e.g. signs, lighting, or shared pathways) or relocated network utilities within 50m of the Melling substation including the HAY-MLG-B-0031, HAY-MLG-B0032A and HAY-MLG-B0032B line support towers; c) Proposed planting and ongoing maintenance of trees and vegetation in the vicinity of overhead transmission and distribution lines must comply with the Electricity (Hazards from Trees) Regulations 2003. d) Species planted within 12m of the centreline of the National Grid transmission line HAY-MLG-B must not exceed 2m in height. When planted, trees (at full maturity height) must not be able to fall within 4m of the transmission line conductor at maximum swing. 	D
60A.	<p>Electrical Infrastructure Management Plan</p> <p>An Electrical Infrastructure Management Plan (EIMP) must be prepared prior to the start of construction works within 50 metres of the HAY-MLG-B, 110kV transmission line asset. The EIMP must be prepared by a Suitably Qualified Person in consultation with Transpower.</p> <p>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.</p> <p>The EIMP must include, at a minimum:</p> <ul style="list-style-type: none"> a) Roles and responsibilities of staff and contractors responsible for implementation of the EIMP. b) Drawings showing proposed works in the vicinity of, or directly affecting, the HAY-MLG-B 110kV transmission assets. c) Proposed staff and contractor training for those working near the transmission assets. d) Proposed methods to comply with Condition 60; 	D & RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>e) Proposed methods to comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances 2001 (NZECP 34: 2001).</p> <p>f) Proposed methods to:</p> <ul style="list-style-type: none"> a. 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; b. 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; c. Manage construction activities that could result in ground vibrations and/or ground instability to avoid causing damage to transmission lines. <p>g) The EIMP must include confirmation that it has been reviewed and endorsed by Transpower when it is submitted to the Manager for information.</p> <p>h) Construction works must not commence within 50 metres of the HAY-MLG-B, 110kV transmission assets until the EIMP has been completed.</p> <p>i) Construction works must be undertaken in accordance with the EIMP.</p> <p>j) 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: transmission.corridor@transpower.co.nz</p>	
61.	<p>All replacement water supply, wastewater and stormwater infrastructure must be designed and constructed to comply with the requirements of the Wellington Water Regional Standard for Water Services Version 3.0 (December 2021) (Wellington Water Ltd) and the Water Sensitive Design for Stormwater: Treatment Device Design Guideline Version 1.0 (April 2019) (Wellington Water Ltd) unless otherwise agreed in writing by Wellington Water Ltd (Land Development Team).</p> <p>Producer Statements (PS1 and PS2) and supporting drawings, plus confirmation of any departures agreed with Wellington Water Ltd, must be submitted to the Manager to demonstrate compliance with this condition.</p>	D
62.	<p>As-Built Plans and a Producer Statement (PS4) for all replacement water supply, wastewater and stormwater infrastructure must be submitted to the Manager within 3 months of completion of Construction Works.</p>	D
	Landscape and Visual	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
63.	<p>The Consent Holder must submit an Urban and Landscape Master Plan (ULMP) prepared by a Suitably Qualified Person or Persons, prior to the start of Construction Works. The purpose of the ULMP is to:</p> <ul style="list-style-type: none"> a) Integrate the Project's permanent works into the surrounding landscape and urban context and integrate the cultural and environmental elements of the Project. b) Support the achievement of the purpose of the Ecology Management Plan (EMP) (required by condition 73) and specifically the Planting Establishment and Management sub-section of this (required by condition 77) through combining landscape planting, restoration planting and habitat rehabilitation where practicable. c) Specify quality urban design and landscape treatments for the Project. <p>The ULMP must be prepared in consultation with the MWSG and must demonstrate how the RiverLink Kaitiaki Strategy principles, the urban and landscape design principles, themes, and outcomes and opportunities of the Urban and Landscape Design Framework (ULDF) submitted with the application will be taken into account in the detailed design concepts for the Project.</p> <p>The ULMP must include, as a minimum:</p> <ul style="list-style-type: none"> d) A plan describing and illustrating the overall landscape and urban design master plan and rationale; e) Detailed design drawings of the landscape and urban design features, including the following: <ul style="list-style-type: none"> i. Road layouts and streetscapes, including improvements to the streetscape of existing local roads and reconfiguration of local roads, the highway and the new; ii. Structures (bridges, culverts, stopbanks, retaining walls); iii. Appropriate surface treatment of fill and cut slopes such as concrete faced and mechanically stabilised earth retaining walls, grassing, revegetation or leaving an exposed rock face; iv. Roadside elements including elements such as lighting, signage, guard rails, fences, central and median barriers etc; f) Urban design and landscape treatment of: <ul style="list-style-type: none"> i. All major structures, including bridges and associated infrastructure, retaining walls, and interchanges; ii. Roadside furniture, such as lighting, signage, guard rails, fences and median barriers; iii. Hardscape material, including detailed design opportunities to naturalise the design of hardscape elements (e.g. carparks, sealed shoulders, kerbs, roundabouts, culvert outlets); 	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<ul style="list-style-type: none"> iv. Landscape and public space features for identifying and interpreting cultural heritage, built heritage, archaeology, geological heritage and ecology, including Ūranga (up to a maximum of four), sitting areas, and recreation spaces; v. The river edge, including consideration of rock riprap type and sizing to facilitate integration and public access for active recreation users; vi. Construction yards and haul roads following completion of construction; vii. Any treatment swales, amenity wetlands and raingardens, to assist with landscape integration; viii. Signage, including wayfinding, interpretive and educational signage; <p>g) Environmental design measures to support crime prevention (Ministry of Justice National Guidelines for Crime Prevention through Environmental Design in New Zealand (November 2005)) principles, including specific consideration of:</p> <ul style="list-style-type: none"> i. Specific details of integration of the SH2 retaining walls and bridge embankments, underpass connections, carparking areas within the river corridor, any ūranga areas (up to a maximum of four), the New Melling Station (including associated access and parking areas) and the Rutherford Street and Queens Drive connection to avoid CPTED issues; ii. Implementation of a lighting strategy for paths and public open spaces consistent with condition 36A(e). A freshwater ecologist must provide input to and review of the detailed design of lighting for the project, with particular reference to the proposed bridges. The purpose of this review is to minimise the impact of light spill on the adjacent freshwater habitat; <p>h) The integration of landscape and amenity benefits with the ecological habitat mitigation planting required by condition 70, plus indigenous street trees to mitigate the amenity effects arising from trees removed from the existing streetscape – all proposed planting close to cycle paths and footpaths must consider size and maintenance requirements when fully grown, to minimise the risk of overgrown vegetation conflicting with path accessibility;</p> <p>i) Provision for cultural expression with reference to the korowai narrative and concepts in the ULDF, including signage and/or Pou that recognise the Maraenuku Pā and Te Ahi a Manono kāinga sites along with the historical connections to locations near the Project area such as Boulcott Farm and Motutawa Pā;</p>	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>j) Design detail for the in-river features required by condition 78 and the inclusion of naturalised stream and stormwater outlets, wherever practicable;</p> <p>k) Design features to direct people away from parts of Te Awa Kairangi to attract birds back to the gravel beaches for roosting birds and encourage nesting. A minimum 5000 m² of gravel beach bird habitat on each side of Te Awa Kairangi specifically designed for this purpose is required. The selected areas should be:</p> <ul style="list-style-type: none"> i. away from bridges, public pathways, and development ii. less prone to regular flooding, and iii. in areas of predicted gravel deposition; <p>l) Measures to increase visual and physical access through to the river edge including experience of pool, beach and riffle environs where appropriate and reinstate suitable access for trout fishing where appropriate;</p> <p>m) Subject to the requirements of conditions 3A and 36A (which take priority), design details for pedestrian and cycle facilities, in particular the Melling Station cycle parking facilities and the cycle path network through the SH2 interchange and New Melling Station areas with reference to the ULDF outcomes, Bridging the gap: NZTA urban design guidelines (October 2013) on underpass connections and Ministry of Justice National Guidelines for Crime Prevention through Environmental Design in New Zealand (November 2005);</p> <p>n) Consideration of potential temporary or tactical uses of the sites, along Daly Street and Queens Drive/Rutherford St once buildings are removed, that complement long term pedestrian priority and positive front facing relationships with the River Landscape;</p> <p>o) Potential, and where appropriate, provision for art in public spaces;</p> <p>p) Site specific design details for the mitigation of potential effects on visual amenity and privacy developed following consultation with owners of the properties at 54A Mills Street and the rear unit at 17A Connolly Street. Such mitigation may include planting and/or fencing within these adjoining sites or no work, depending on the preferences identified and site constraints. Any comments and inputs received from the owners must be clearly documented, along with clear explanation of where any comments have not been incorporated and the reasons why.</p> <p>q) Design measures to deter the public from using the maintenance track between Melling Road and the driveway serving 39A and 39B Mills Street.</p> <p>For any of the design elements required above and other areas requiring a finer grain of urban design detailing to satisfy the purpose set out in (a)-(c) above, the Consent Holder may identify in the ULMP where specific items</p>	

Condition number	Condition	Applies to designation (D) or resource consent (RC)												
	<p>have not been designed at the time of submitting the ULMP. For such elements and areas, a schedule must be prepared and included in the ULMP identifying the future design detail proposed to be submitted via a Site Specific Design Plan or Plans. Construction on any design elements that are subject to a Site Specific Design Plan must only commence once the applicable Site Specific Design Plan has been certified by the Manager.</p>													
	Terrestrial Ecology													
64.	<p>No vegetation clearance within the 'mixed broadleaved forest and scrub' habitat shown on drawings A16-4381-G012 - 013 may occur during the peak bird nesting season (September to January inclusive).</p>	D + RC												
65.	<p>Prior to vegetation clearance in areas other than in the mapped 'mixed broadleaved forest and scrub' habitat addressed in condition 64, pre-clearance nesting surveys must be undertaken by a Suitably Qualified Person, if vegetation clearance is to occur during the peak nesting season(s) as set out in the table below.</p> <table border="1" data-bbox="472 1003 1366 1496"> <thead> <tr> <th data-bbox="472 1003 804 1111">Bird group</th> <th data-bbox="804 1003 1142 1111">Potential breeding habitat types in the Project footprint</th> <th data-bbox="1142 1003 1366 1111">Peak nesting season</th> </tr> </thead> <tbody> <tr> <td data-bbox="472 1111 804 1285">Forest birds e.g. tūī, korimako, piwakawaka, and whitehead.</td> <td data-bbox="804 1111 1142 1285">Tall stature exotic planting (flood protection) Native amenity planting Dwellings with associated ornamental gardens</td> <td data-bbox="1142 1111 1366 1285">September - January inclusive</td> </tr> <tr> <td data-bbox="472 1285 804 1393">Riverine birds including red-billed gulls and pied stilt*</td> <td data-bbox="804 1285 1142 1393">Gravel beaches</td> <td data-bbox="1142 1285 1366 1393">June - January inclusive</td> </tr> <tr> <td data-bbox="472 1393 804 1496">New Zealand pipit*</td> <td data-bbox="804 1393 1142 1496">Rough grassland/ weed field Constructed wetland</td> <td data-bbox="1142 1393 1366 1496">August - January.</td> </tr> </tbody> </table> <p>* No nesting recorded within Project area to date</p> <p>If any native bird nests are identified during pre-clearance nesting surveys, Construction Works involving vegetation clearance must not proceed within 50 m (for At Risk or Threatened species) or 20 m (other native birds) of the active nest in any direction until the young birds have fledged or the nest is naturally abandoned.</p> <p>In the case of forest birds nesting within tall stature exotic planting where this is serving a flood protection purpose, nests can be relocated, subject to the requirements of the Wildlife Act 1953 and any authority granted under that Act.</p> <p>Where vegetation clearance is to take place outside of the identified peak nesting season(s), no pre-clearance nesting surveys or potential construction delays are required.</p>	Bird group	Potential breeding habitat types in the Project footprint	Peak nesting season	Forest birds e.g. tūī, korimako, piwakawaka, and whitehead.	Tall stature exotic planting (flood protection) Native amenity planting Dwellings with associated ornamental gardens	September - January inclusive	Riverine birds including red-billed gulls and pied stilt*	Gravel beaches	June - January inclusive	New Zealand pipit*	Rough grassland/ weed field Constructed wetland	August - January.	D + RC
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66.	<p>To avoid unanticipated effects on black shag roosting/nesting sites hosted on two macrocarpa trees adjacent to the proposed new Melling Interchange, prior to any construction within 15 m of the dripline of these trees, a Suitably Qualified Person must be engaged to provide recommendations on the required set-back of works to ensure the root systems of these trees are not damaged. Works must be carried out in accordance with this advice.</p> <p>A Suitably Qualified Person must survey the black shag roosting/nesting colony monthly while any Construction Works are being undertaken within 50 m of the roosting colony. In the event of any signs of nest abandonment as a result of the works, escalation procedures as set out in the Avifauna Management section of the Ecology Management Plan (EMP) must be undertaken.</p>	D + RC
67.	<p>Prior to vegetation clearance in the 'mixed broadleaved forest and scrub' habitat adjacent to SH2 shown on drawings A16-4381-G012 - 013, a Suitably Qualified Person must be engaged to undertake pre-vegetation clearance lizard surveys and salvage. Lizard surveys (and associated vegetation clearance in potential lizard habitats) must be avoided during May - August (inclusive).</p> <p>Lizards captured must be relocated in accordance with the Invertebrate Management section of the EMP required by condition 75.</p> <p><i>Advice note – lizard capture and relocation will be carried out in accordance with a Wildlife Act Authority.</i></p>	D + RC
68.	<p>Prior to vegetation clearance in 'tall stature exotic planting (flood protection)' habitat shown on drawings A16-4381-G012 - 013, a Suitably Qualified Person must be engaged the Consent Holder to undertake pre-vegetation clearance surveys and salvage for <i>W. urnula</i> snails and velvet worm (<i>Peripatus spp.</i>).</p> <p>Any snails and velvet worm (<i>Peripatus spp.</i>) captured should be relocated to Jubilee Park or to a relocation site established for lizard relocation under the Invertebrate and Lizard Management section of the EMP required by condition 75.</p> <p>Where practicable, sufficient <i>W. urnula</i> snails and velvet worm habitat (<i>Peripatus spp.</i>) to re-establish populations within the RiverLink reach should be taken back to the river corridor, once the minimum vegetation maintenance requirements of conditions 71(b) and (c), DG2, DW1 and DH2 have been satisfied.</p> <p>Note – there is no requirement to monitor the success of the fauna once it has been returned to the river corridor.</p>	D + RC
69.	<p>In the event that any At Risk or Threatened flora and fauna (as defined in the current version of the New Zealand Threat Classification System) are discovered on site that are not specifically addressed by other conditions of</p>	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>this consent, works must stop in that area and the Project ecologist, Mana Whenua Steering Group and Department of Conservation notified.</p> <p>The Consent Holder must have regard to any advice provided by the Project ecologist and any feedback received from Mana Whenua and the Department of Conservation (to be provided within 2 working days of notice, or as otherwise agreed with the Consent Holder), in determining the appropriate course of action to minimise construction effects on the discovered At Risk or Threatened flora or fauna (e.g. further surveys and/or capture and relocation). Works may recommence in the affected area once the Consent Holder has implemented any actions it has determined to be practicable.</p>	
70.	<p>Revegetation of the site must be undertaken in general accordance with the planting areas illustrated on the Indicative Landscape Plan drawing numbers A16-4381-L201-L208 Rev O and Indicative Landscape Section drawing numbers - A16-4831-L400-L402 Rev F, L403-L405 Rev G, L406-L407 Rev H, L408 Rev G, L409 Rev H, L410 Rev G, L411-L414 Rev E or at an alternative area of the same type and size and achieving at least the same ecological outcomes as identified by a Suitably Qualified Person and provided to the Manager.</p> <p>Revegetation must occur concurrently as construction stages are completed as detailed in the Planting Establishment and Management section of the EMP required by condition 77.</p> <p>As a minimum, the following replanting is required to mitigate and offset the ecological value of vegetation to be removed for the Project, and to mitigate amenity effects:</p> <ul style="list-style-type: none"> a) 7.7 ha of exotic willow planting with an indigenous understory that will transition to native riparian vegetation in the long-term. Key native canopy species required for the plant mix include kahikatea, pukatea, totara, matai, and swamp maire; b) Approximately 720 native trees in groves across the river corridor (primary purpose is for amenity, secondary purpose foraging resources for common native birds, and potential lizard habitat; c) 11.0 ha of indigenous broadleaved forest and scrub revegetation, which includes a minimum of 4.6 ha tall stature 'forest' mix and the remainder medium stature 'scrub' mix. Enrichment of the 'scrub' mix is required with forest species such as tōtara, miro and matai; d) 6.2 ha of indigenous ground cover planting (primary purpose is for amenity to replace the amenity plantings removed); e) 0.4 ha of signature planting areas providing weaving resources, wetland species and divaricating shrub mixes (primary purpose is for amenity to replace the amenity plantings removed); and f) Infill planting and weed control within the approximately 2 ha of mixed broadleaved forest and scrub within the Project area that is not 	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	proposed to be removed, to minimise edge effects and improve the quality of the immediately surrounding habitat.	
71.	<p>Revegetation required by condition 70 is subject to the following minimum maintenance requirements, for the periods indicated:</p> <p>a) Pest plant control and clearance including:</p> <ul style="list-style-type: none"> i. two rounds of weed control prior to planting, where pest plants are present; ii. quarterly weed control for years 1-2 after each area is planted; iii. biannual weed control for years 3-5 after each area is planted. <p>b) Replacement of failed plants for a minimum of 3 years, until 80% native canopy closure is achieved; and</p> <p>c) Where native planting does not comprise the canopy, i.e. underplanting of bioengineered flood protection planting, maintenance must be undertaken for a minimum of 3 years, until the native understory reaches a 60% cover.</p> <p><i>Advice Note – where planting maintenance is required for longer than 5 years post construction in order to achieve the canopy or underplanting performance standard, this is managed by conditions on the operational phase designations.</i></p>	D + RC
72.	<p>Within six months of the completion of the maintenance period for each planting/revegetation area, the Consent Holder must engage a Suitably Qualified Person to carry out a full review of the success of the planting/revegetation in that area.</p> <p>The results of the review must be provided to the Manager for certification within one month of the review being undertaken and must:</p> <ul style="list-style-type: none"> i. Confirm that the planting/revegetation has met the requirements of condition 71 and the Planting Establishment and Management section of the EMP (or not); and ii. If not, identify any remedial actions that need to be carried out. <p>Where any remedial actions are required, the Consent Holder must engage a Suitably Qualified Person to provide a programme and description of recommended remedial actions and any additional monitoring or maintenance and a timeframe for implementation. A copy of this programme must be provided to the Manager.</p>	D + RC
	Ecology Management Plan	
73.	The Consent Holder must engage a Suitably Qualified person to prepare an Ecology Management Plan (EMP). The purpose of the EMP is to:	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>a) Set out the overall ecological management programme that will be implemented to avoid, mitigate, offset or compensate effects of the Project on ecological values during the construction phase;</p> <p>b) Where appropriate, ensure that any long-term effects are managed through monitoring and active management response measures;</p> <p>c) Ensure that mitigation has been successful by establishing post-construction monitoring and response procedures;</p> <p>The EMP must include, but not be limited to, the following:</p> <p>d) Document the permanent mitigation measures, including the restoration and enhancement measures, and management and maintenance of ecological mitigation;</p> <p>e) Provide for the specific content below as appendices or specific sections within the EMP, namely:</p> <ul style="list-style-type: none"> i. A Vegetation Removal Management section in accordance with condition 74; ii. Planting Establishment and Management section in accordance with condition 77; iii. An Invertebrate Management section in accordance with condition 75; iv. Avifauna Management section in accordance with condition 76; v. A Fish Management Protocol and Monitoring section in accordance with condition 84; vi. A Freshwater Habitat Monitoring section in accordance with condition 78; <p>f) Details of how the Consent Holder will comply with the limits, management triggers and thresholds established in conditions 64 – 72, 79 – 81 and 85 – 88 and required by the specialist management sub-sections in (e) above;</p> <p>g) Details of habitat mitigation implementation timing;</p> <p>h) A methodology for the riverbed, macroinvertebrate and indigenous fish monitoring required by conditions 85 - 87 for the impacted reaches of Te Awa Kairangi;</p> <p>i) Accidental discovery protocols for Threatened or At Risk fauna (as per condition 69).</p> <p>j) Roles and responsibilities for ecological management across the Project.</p>	
	Vegetation Removal and Management	
74.	The Consent Holder must engage a Suitably Qualified Person to prepare a section on Vegetation Removal and Management in the EMP.	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)																									
	<p>The Vegetation Removal and Management section of the EMP must include as a minimum:</p> <p>a) Methods to minimise the removal of vegetation adjacent to SH2, including:</p> <ul style="list-style-type: none"> (i) minimising removal of the 'mixed broadleaved forest and scrub' as far as practicable through constructing the new interchange from the bottom of the hillslope and building the proposed on/off ramps from below to limit the construction footprint; (ii) site management and appropriate construction methodology, including through the physical delineation of vegetation to be retained; and (iii) staged vegetation clearance as construction progresses rather than all vegetation loss occurring prior to the commencement of construction activities; <p>b) Methods and criteria for retaining existing trees, where practicable, to screen direct line of sight of the permanent Project Works from adjacent properties;</p> <p>c) A methodology in accordance with best practice arboriculture measures to protect the black shag roost site described in condition 66, and where practicable to do so existing street trees along local roads and notable trees as set out in the table below; and</p> <table border="1" data-bbox="472 1267 1385 2020"> <thead> <tr> <th><i>Notable tree no.</i></th> <th><i>Address</i></th> <th><i>Legal description</i></th> <th><i>Location/description</i></th> <th><i>Common name (Species)</i></th> </tr> </thead> <tbody> <tr> <td>26</td> <td>Fraser Street, Hutt Central</td> <td>Road reserve</td> <td>Western most and shortest tree. 1st tree from pedestrian crossing on High Street</td> <td>Phoenix Palm (Phoenix canariensis)</td> </tr> <tr> <td>27</td> <td>Fraser Street, Hutt Central</td> <td>Road reserve</td> <td>2nd tree from pedestrian crossing on High Street.</td> <td>Phoenix Palm (Phoenix canariensis)</td> </tr> <tr> <td>28</td> <td>Fraser Street, Hutt Central</td> <td>Road reserve</td> <td>3rd tree from pedestrian crossing on High Street.</td> <td>Phoenix Palm (Phoenix canariensis)</td> </tr> <tr> <td>29</td> <td>Fraser Street, Hutt Central</td> <td>Road reserve</td> <td>Eastern most tree. 4th tree from pedestrian crossing on High Street.</td> <td>Phoenix Palm (Phoenix canariensis)</td> </tr> </tbody> </table>	<i>Notable tree no.</i>	<i>Address</i>	<i>Legal description</i>	<i>Location/description</i>	<i>Common name (Species)</i>	26	Fraser Street, Hutt Central	Road reserve	Western most and shortest tree. 1st tree from pedestrian crossing on High Street	Phoenix Palm (Phoenix canariensis)	27	Fraser Street, Hutt Central	Road reserve	2nd tree from pedestrian crossing on High Street.	Phoenix Palm (Phoenix canariensis)	28	Fraser Street, Hutt Central	Road reserve	3rd tree from pedestrian crossing on High Street.	Phoenix Palm (Phoenix canariensis)	29	Fraser Street, Hutt Central	Road reserve	Eastern most tree. 4th tree from pedestrian crossing on High Street.	Phoenix Palm (Phoenix canariensis)	
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Condition number	Condition					Applies to designation (D) or resource consent (RC)
	32	14 Harbour View Road, Harbour View	Road reserve	Downhill specimen, furthest away from roadside.	Black Beech (<i>Fuscospora solandri</i> , formerly <i>Nothofagus solandri</i>)	
	96	Raroa Road / 338 High Street, Hutt Central	Road reserve	On Council berm. In front of Raroa Road frontage of 338 High Street. Corner tree on High Street and Raroa Road on southern side.	Pohutukawa (<i>Metrosideros excelsa</i>)	
	110	73 Rutherford Street, Hutt Central	Road Reserve / LOT 2 DP 50907	Partly on Council berm / partly on private property.	English Elm (<i>Ulmus procera</i>)	
	d) Identification of periods (such as breeding seasons) where vegetation clearance must be avoided or otherwise managed to minimise effects on avifauna, lizards and snails in accordance with conditions 63, 65, 67 and 68.					
	Invertebrates					
75.	<p>The Consent Holder must engage a Suitably Qualified Person to prepare a section on Invertebrate and Lizard Management in the EMP. A draft version of this must be provided to the Department of Conservation (Kapiti Wellington Office) for review and comment prior to submission to the Manager.</p> <p>The Invertebrate and Lizard Management section of the EMP must include:</p> <ul style="list-style-type: none"> a) A description of the lizard, <i>W. urnula</i> snail and velvet worm (<i>Peripatus spp.</i>) habitats present within the Project footprint; b) Lizard species potentially present; c) Roles and responsibilities for invertebrate and lizard management; d) Measures proposed to avoid, remedy and mitigate adverse effects on resident native lizard populations, including: <ul style="list-style-type: none"> i. Vegetation clearance and construction protocols; ii. Methodology for lizard capture; iii. Timetable for implementation, noting that vegetation clearance in potential lizard habitats must satisfy the timing in condition 67; 					D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>iv. Details of the proposed relocation site(s) as well as a pest control regime and habitat enhancement to be implemented in the relocation site prior to salvage commencing. Consideration should be given to use of the adjacent Jubilee Park as a potential lizard release site as it contains similar habitat and opportunity for habitat enhancement;</p> <p>v. Details for post release monitoring; and criteria for when such monitoring would be required (i.e. only if large numbers and/or highly threatened species are found);</p> <p>e) Measures proposed to survey and salvage resident <i>W. urnula</i> snail fauna and velvet worm habitat (<i>Peripatus spp.</i>);</p> <p>f) Measures to take <i>W. urnula</i> snail fauna and velvet worm habitat (<i>Peripatus spp.</i>) back to the river corridor as per the requirements of condition 68;</p> <p>g) Procedures for accidental discovery of lizards during works.</p> <p>Note – a minimum of 10 working days must be allowed for the Department of Conservation to provide comment.</p>	
	Avifauna	
76.	<p>The Consent Holder must engage a Suitably Qualified Person to prepare a section on Avifauna Management in the EMP.</p> <p>The Avifauna Management section of EMP must include:</p> <p>a) Measures proposed to avoid more than minor, or non-transitory, potential adverse effects of Construction Works on avifauna specified in conditions 65 and 66, including:</p> <ul style="list-style-type: none"> i. Details of potential high-value habitat including the location of that potential habitat and a description of the characteristics of the potential habitat; ii. The methodology and timing for a pre-construction nest surveys where required by condition 65; iii. Identify any periods required by consent conditions to avoid effects or requiring specific management measures to minimise effects on avifauna; iv. Recommendations from a Suitable Qualified Person on the required set-back of works from the macrocarpa black shag nesting site to ensure the root system is not damaged as per condition 74(c); v. Details of an escalation or adaptive management procedure to respond to signs of nest abandonment as a result of the works near the macrocarpa black shag nesting site; 	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>vi. Details of appropriate buffer areas between any identified active nests and Construction Works for identified avifauna; and</p> <p>b) Measures to ensure that planting implemented under the EMP (Planting Establishment and Management section) maximises the opportunities for habitation by avifauna and minimises the potential for vehicle strike.</p>	
	Planting Establishment and Management	
77.	<p>To implement the restoration and planting required by condition 70 and the ULMP, the Consent Holder must engage a Suitably Qualified Person to prepare a section on Planting Establishment and Management in the EMP. The Planting Establishment and Management section of the EMP must include the following:</p> <ul style="list-style-type: none"> a) Planting design details; b) The locations of restoration planting; c) Plant species; d) Plant mixes (canopy succession species); e) Spacing/densities and sizes (at the time of planting); f) Details of the sourcing of native plants including genetic sourcing of native plants from the Ecological District and including the use of Threatened and At Risk species and species that provide food sources for native fauna; g) Planting methods including trials where applicable; h) Planting programme which must, as far as practicable, include provision for planting within each planting season following completion of works in each stage of the Project; i) Ground preparation (top soiling and decompaction) specifications; j) Plant sourcing and planting, including hydroseeding and grassing specifications; k) Planting to enable transition to natives over time for the upper reach berms, including a programme for progressive removal of exotic trees initially required for flood protection; l) Roadside planting that has been designed to avoid attracting foraging birds such as kereru and tui that are susceptible to vehicle strike. Planting large-fruited species such as tawa and hīnau, and legumes (both native and exotic) such as kōwhai which attract kereru and tui should be avoided within 10 m of SH2; m) Plant pest management in accordance with condition 71; n) Methods to monitor the performance of any new planting to satisfy the vegetation maintenance requirements of condition 71; 	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>o) Pest animal management, if the monitoring regime in (n) suggests that the performance criteria outlined in condition 70 will not be met otherwise;</p> <p>p) A description as to how any landscape planting to be established through the ULMP or other Project planting has been integrated;</p> <p>q) In collaboration with the MWSG, a description of how planting of the upper reach river channel will contribute to enhancing the habitat for indigenous fish;</p> <p>r) A description as to how cultural values relating to planting and habitat restoration identified through the MWSG have been acknowledged; and</p> <p>s) A description of the mechanisms to achieve ongoing protection of planting required for mitigation purposes with reference to the requirements of conditions 70-72.</p>	
	Freshwater Ecology (see also Erosion and Sediment Control and Culverts)	
78.	<p>The Consent Holder must engage a Suitably Qualified Person to prepare a section on Freshwater Habitat Management in the EMP that details the key design features within Te Awa Kairangi that will maintain and where possible increase habitat diversity and spawning habitat for key fish species (e.g. blue gill bully, īnanga and trout) affected by Project works. A draft version of this must be provided to the Department of Conservation (Kapiti Wellington Office) for review and comment prior to submission to the Manager.</p> <p>The Consent Holder must construct the following freshwater habitat features, as illustrated on the geomorphology drawings labelled “Figure 4 and 5 RiverLink – Design – Rock Features & Access”:</p> <ul style="list-style-type: none"> a) Habitat appropriate riffle and deep pool sections; b) Boulders/boulder clusters and rock spurs; c) Increased indigenous vegetation within the immediate riparian zone; and d) Areas of replacement īnanga spawning habitat are also to be included, where required by condition 79, along with any opportunity for further īnanga spawning habitat areas in locations resilient to future sea level rise within the lower Project area. <p>The Freshwater Habitat Management section of the EMP must also set out the methods to enable:</p> <ul style="list-style-type: none"> e) habitat features to be installed progressively before construction on the next ‘reach’ commences, to provide timely re-colonisation of species back to a disturbed reach; and f) A Suitably Qualified Person to inspect the completed features prior to construction on the next reach commencing. 	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	Note – a minimum of 10 working days must be allowed for the Department of Conservation to provide comment.	
79.	Prior to any Construction Works within the river channel of Te Awa Kairangi commencing, a Suitably Qualified Person must be engaged to carry out a survey of īnanga spawning habitat on the true left bank for 250m upstream of Ewen Bridge within the Project area to confirm the extent of the habitat. Any confirmed spawning habitat on the river bank must not be removed between March to June (inclusive). Any removal of identified īnanga spawning habitat (outside of the times specified) must be replaced within the lower river reach once Project works within the potential spawning locality are completed. This should occur before the next spawning season but if removed riparian vegetation is unable to be re-established prior to the next spawning season, the consent holder must install artificial spawning substrate such as straw bales prior to the next spawning season commencing.	RC
80.	<p>Works in the river channel of Te Awa Kairangi which result in disturbance of sediment within the channel must be subject to the following restrictions:</p> <ul style="list-style-type: none"> a) River channel re-shaping, contouring and gravel extraction must be conducted within sections of 500 lineal metres as measured along the centreline of the river. b) Within each 500m section, river channel re-shaping, contouring and gravel extraction must be conducted moving in a downstream to upstream direction. c) Any bridge works which result in disturbance of the river channel, including the construction and maintenance of temporary causeways and bridge piling and pier construction activities, can be excluded from restrictions set out in (a) and (b). d) Causeways for bridge activities referred to in (c) must be no wider than 50% of the river channel width. Material to construct causeways must be sourced from within the river corridor (i.e. no imported fill material shall be used to prevent the introduction of fines). <p><i>Note: Re-shaping, contouring and gravel extraction works which are conducted in the standing water channel (i.e. behind a protective bund or separation structure) are considered to be within the river channel and are therefore subject to the restrictions (a) – (d).</i></p>	RC
81.	No Construction Works in the flowing channel may take place between the months of September and November (inclusive), excluding piling for bridges (including the maintenance of associated causeways). If works are required during this period for bridge piles, the SSEMP(s) for this activity must address this.	RC
82.	The Consent Holder must offset the adverse effects on freshwater arising from the loss of stream habitat with the piping of approximately 32 linear	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	metres of stream habitat at the Harbour View Road tributary to result in no net loss of ecological function through the provision of an offset or offsets, for loss of stream ecological value and function:	
83.	<p>The quantum of the offset required by condition 82 and its design and location must be set out in a Stream Offset Plan. The Stream Offset Plan must:</p> <ul style="list-style-type: none"> a) Confirm the total length of watercourse lost to the Project; b) Calculate the quantum and location of offset provided in accordance with relevant SEV guidance, for example the Stream Ecological Valuation (SEV): a method for assessing the ecological function of Auckland streams. Auckland Council Technical Report 2011/009; c) Demonstrate that the proposed offset addresses both instream habitat and riparian planting; d) Integrate any planting component of the offset with the restoration planting and habitat rehabilitation required in the ULMP and EMP (Planting Establishment and Management section) where practicable; e) Describe how the anticipated outcomes used in the Offset calculations will be achieved; f) Describe the monitoring methods and frequency; g) Incorporate any feedback from the MWSG, where practicable; and h) Be consistent with, and provide the information required by, PNRP Schedule G2: Principles to be applied when proposing and considering a biodiversity offset (as resolved by Consent Order granted 14 September 2021). <p>The Stream Offset Plan must be provided to the Manager for certification of compliance against the above matters prior to the start of any Construction Works.</p>	RC
84.	<p>The Consent Holder must engage a Suitably Qualified Person to prepare a Fish Management Protocol section in the EMP and the Protocol must be implemented during all Construction Works within Te Awa Kairangi and the tributaries. The Fish Management Protocol must include, but not be limited to:</p> <ul style="list-style-type: none"> a) Details of the methodology to be followed for fish salvage and relocation, which must provide for: <ul style="list-style-type: none"> i. all suitable habitats being subject to fish recovery procedures prior to works in flowing water commencing; ii. a combination of fish recovery methods (e.g. electric fishing, nets/traps, slow dewatering and sorting through dewatered materials) to be utilised in different habitats as appropriate; 	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>iii. the selection of methods that minimise potential additional effects on fish during recovery and to provide for the most effective recovery approach;</p> <p>iv. Consideration of relocation position – in general fish in Te Awa Kairangi will be located to an area outside of the current impact area (e.g. upstream reaches) and multiple release sites will be used to avoid overloading any one particular site; and</p> <p>v. Measures to ensure all relocated fish remain within the source catchment (i.e. captured fish are not to be relocated from one tributary to another);</p> <p>b) The identification of key personnel, including their roles and responsibilities;</p> <p>c) Measures to manage the timing of works in respect of site conditions and to satisfy the seasonal restriction outlined in condition 81; and</p> <p>d) A method to invite Mana Whenua (as directed by the MWSG) the opportunity to exercise kaitiakitanga through participation in fish recovery work, where safe and practicable to do so.</p> <p>Note: The consent holder is responsible for obtaining any Ministry for Primary Industries (MPI) permits required for fish relocation.</p>	
	Te Awa Kairangi monitoring – river activities	
85.	<p>River bed monitoring must be carried out by a Suitably Qualified Person before, during and following completion of the Construction Works within the impacted reaches of Te Awa Kairangi, in accordance with the monitoring methodology to be certified by the Manager in the EMP.</p> <p>River bed monitoring must satisfy the following minimum requirements:</p> <p>a) Undertake Wolman Pebble counts in accordance with the SAM3 method outlined in Sediment Assessment Methods: Protocols and guidelines for assessing the effects of deposited fine sediment on in-stream values (2011) before disturbance of the river channel, 4 weeks and 8 weeks after disturbance. The monitoring is to occur at representative 200 m long monitoring locations in each of the 500 lineal metre disturbed reaches (as per condition 80) and at one control site up stream of the Kennedy Good Bridge. Each monitoring location must include two SAM3 assessments at one representative riffle and one representative shallow run habitat within each monitoring site.</p> <p>b) The number of pools and riffles will be recorded and mapped at each site, during each monitoring occasion. For the purposes of this condition a pool is defined as an area of the low flow channel where the depth is relatively greater, and the velocity of the flow is lower than in the surrounding parts of the river, and a riffle habitat is defined as an area of the low flow channel that is shallow and steep with higher flow</p>	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>velocities and unbroken standing waves over the bed material of the river. The flow in a rapid is more turbulent, with steep broken standing waves.</p> <p>c) Monitoring of fine sediment cover in accordance with the SAM2 method outlined in Sediment Assessment Methods: Protocols and guidelines for assessing the effects of deposited fine sediment on in-stream values (2011) before disturbance of the river channel, 4 weeks and 8 weeks after disturbance. The monitoring is to occur at the same representative riffle and shallow run locations described in Condition 85 (a) locations (i.e. one 200m long riffle and one 200m long shallow run habitat).</p> <p>d) Fine sediment mobilisation to environments downstream of impact sites will be completed using the SAM5 method outlined in Sediment Assessment Methods: Protocols and guidelines for assessing the effects of deposited fine sediment on in-stream values (2011). The monitoring is to occur at each of the 500 lineal metre disturbed reaches, and will consist of 5 replicate quantitative samples from one representative riffle site within each reach, in order to categorise re-suspendible sediment.</p> <p>e) Report(s) summarising the results of the Wolman Pebble count and fine sediment monitoring must be submitted to the Manager within 1 month of sampling. The report must analyse each new set of results, report on differences before and after Project works, discuss any trends between successive surveys.</p> <p>f) The reporting must use an interim trigger of 30% change in median grain size between the disturbed area(s) and the control area for Wolman Pebble count or 30% change between the disturbed area(s) and control area for fine sediment cover. The reporting should also recommend any necessary adjustments for future monitoring and adjustments to the 30% change level as the trigger for the active management response process required by condition 88.</p> <p>Where the threshold for active management response is triggered under (f) is exceeded, the active management response process outlined in condition 88 must commence.</p>	
86.	<p>Macroinvertebrate monitoring must be carried out by a Suitably Qualified Person before, during and following completion of the Construction Works within the impacted reaches of Te Awa Kairangi, in accordance with the monitoring methodology to be certified by the Manager in the EMP.</p> <p>Macroinvertebrate monitoring must satisfy the following minimum requirements:</p> <p>a) Collection of 5 replicate quantitative samples from one representative site within each of the directly impacted 500 m lineal reaches of the river (as per condition 80) and at one control site upstream of Kennedy Good Bridge. Sampling will occur on four occasions: once 'before' disturbance, once within 5 days after</p>	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>construction activities have ceased in that reach, and once four and eight weeks after the 'after' sampling event;</p> <p>b) Post all river construction works across the 3.5 km long Project area, monitoring of representative sites (which are to be determined in the EMP) must be continued annually for the first 2 years following completion of the channel reshaping works;</p> <p>c) For (a) and (b) above, reasonable endeavours must be made to conduct sampling during a period of stable normal flow conditions, at least two weeks after any event when the river flow exceeds 3 times the median flow;</p> <p>d) Report(s) summarising the results of the macroinvertebrate monitoring must be submitted to the Manager within 3 months of sampling. The report must analyse each new set of results, report on differences before and after Project works, discuss any trends between successive surveys and report on any differences in the overall macroinvertebrate community (i.e. a change in taxonomic richness, Ephemeroptera, Plecoptera and Trichoptera ("EPT") richness, Macroinvertebrate Community Index (MCI), average score per metric (ASPM), and abundance of taxa metrics (e.g. %ephemeroptera, %plecoptera and %trichoptera). Multivariate statistics must be used in the overall assessment of macroinvertebrate communities over time.</p> <p>e) The reporting must use an interim threshold at the 8 week monitoring point that no change should exceed 20% as a trigger for possible effect and active management response. The reporting should also recommend any necessary adjustments for monitoring future disturbed reaches and any necessary adjustments to the 20% level as the trigger for the active management response process required by condition 88.</p> <p>Where the threshold for active management response is triggered under (e) is exceeded, the active management response process outlined in condition 88 must commence.</p>	
87.	<p>Indigenous fish monitoring must be carried out by a Suitably Qualified Person before, during and following completion of the Construction Works within the impacted reaches of Te Awa Kairangi, in accordance with the monitoring methodology to be certified by the Manager in the EMP.</p> <p>Fish monitoring must satisfy the following minimum requirements:</p> <p>a) Fish sampling from sites within each of the directly impacted 500 m lineal reaches of the river (as per condition 80) and at one control site upstream of Kennedy Good Bridge. Sampling will occur once before disturbance and four weeks and eight weeks after construction activities have ceased in a specific reach.</p> <p>b) Post all river construction works across the 3.5 km long Project area, monitoring of representative sites (which are to be determined in</p>	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>the EMP) must be continued annually for the first 2 years following completion of the channel reshaping works;</p> <p>c) Fish sampling must be conducted during a period of stable normal flow conditions.</p> <p>d) Report(s) summarising the results of the fish monitoring must be submitted to the Manager within 1 month of sampling. The report must analyse each new set of results, report on differences before and after Project works, discuss any trends between successive surveys and report on any differences in fish diversity and health.</p> <p>e) The reporting must use a 30% reduction in native species diversity (number of taxa) and 30% lower abundance of blue gill bully at the downstream monitoring site compared to the upstream site as triggers for possible effect and active management response. The reporting should, taking into account natural variability and external factors, recommend any necessary adjustments for future monitoring and adjustments to the 30% level as the triggers for the active management response process required by condition 88.</p> <p>Where the threshold for active management response is triggered under (e) is exceeded, the active management response process outlined in condition 88 must commence.</p>	
87A.	<p>Trout monitoring must be carried out by a Suitably Qualified Person before, during and following completion of the Construction Works within Te Awa Kairangi. The purpose of the trout monitoring is to check that proposed construction works do not have a more than minor adverse effect on trout abundance within the project reach and trout accessing spawning sites within the wider Te Awa Kairangi environment.</p> <p>Trout monitoring must satisfy the following minimum requirements:</p> <p>a) Drift dive survey to record trout abundance 1 km upstream, 1km downstream and through the project reach.</p> <p>b) Drift dive survey work described in (a) must be carried out once in the period April-June and again in October before river works begin (baseline) and each year that the works occur. A completion survey must then be done within July-August in the year immediately following completion of river works.</p> <p>c) Trout spawning monitoring must be carried out by:</p> <ol style="list-style-type: none"> i. weekly walkover survey (up to 8 occasions) of redd counts and abundance of paired trout from 1km above to 1km below the project reach during the middle of the spawning season (July-August) before works begin (baseline) to determine the extent of spawning in the main stem of Te Awa Kairangi; ii. If spawning is recorded in (i) above, comparative surveys must follow in subsequent years until works are completed and 	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>for the spawning season in the year immediately following completion of the river works; and</p> <p>iii. Electric fishing surveys targeting juvenile trout (in summer) and eDNA sampling (during spawning in autumn) must be carried out at five known spawning sites (Mangaroa, Whakatikei, Pakuratahi, Akatarawa, Te Awa Kairangi at Te Marua) to confirm trout continue to access the upper reaches of Te Awa Kairangi and successfully spawn during the period of the RiverLink construction works. These methods must be used before works begin (control), in subsequent years until works are completed and for the spawning season in the year immediately following completion of the river works.</p> <p>d) Report(s) summarising the results of the trout abundance and trout spawning monitoring must be submitted to the Manager each year within 2 months of the October drift dive surveys. The report must analyse each new set of results, report on differences before and after project works, discuss any trends between successive surveys and report on any differences in trout abundance and spawning activity.</p> <p>e) The reporting should use a 30% lower abundance of large trout at the upstream and downstream monitoring sites compared to the pre-project numbers and 30% reduction in the recruitment of juvenile fish as a trigger for possible effect and active management response. The reporting should take into account natural variability and external factors, recommend any necessary adjustments for future monitoring and adjustments to the 30% level as the triggers for the active management response process required by condition 88.</p> <p>f) Where the threshold for active management response under (e) is exceeded, the active management response process outlined in condition 88 must commence prior to further river works the following year.</p> <p><i>Note – the Consent Holder is intending that Wellington Fish and Game staff be offered the opportunity to undertake the required trout monitoring, if satisfactory commercial terms can be arranged.</i></p>	
	Active Management Response – river activities	
88.	<p>If interim active management response thresholds in conditions 85 - 87A or 96 are exceeded, or an updated trigger established through reporting required by those conditions is exceeded, the Consent Holder must commence an active management response that includes the following steps:</p> <p>a) convening a meeting of the Consent Holder, the MWSG, the Manager and the Suitably Qualified Person responsible for the freshwater ecology monitoring within 48 hours of receipt of monitoring results, to evaluate monitoring results. This group should evaluate all available monitoring results and information and agree actions to</p>	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>remedy any observed effects that fall outside the purposes listed below:</p> <ul style="list-style-type: none"> i. That the measures prescribed in the ESC are effective at limiting sedimentation effects to minor levels; ii. That macroinvertebrate and fish communities recover within the expected time from disruption as a result of Construction Works (i.e. 8 weeks); and iii. More than minor ecological effects on functioning and diversity of ecosystems beyond short term effects (i.e. beyond 8 weeks after disturbance) at the immediate impact sites are avoided. <p>b) Once actions are agreed by the group, the Consent Holder will implement those actions and, if appropriate, initiate any agreed supplementary monitoring regime to evaluate the consequences of the remedial action. Remedial actions may include those identified in condition 96 or any other action developed by the group.</p> <p>c) Should the group described in (a) above be unable to reach an agreement as per (d), then the Consent Holder may engage a suitably qualified independent expert to resolve the matters in dispute. The expert must resolve the matters within 10 working days of being engaged and his or her decision will be final and the Consent Holder is required to implement their recommended actions.</p> <p>d) Details of any active management response carried out must be included in the annual report submitted to the Manager.</p>	
	Erosion and Sediment Control - within river corridor	
89.	Unless otherwise provided for by another condition, Construction Works within the river must be undertaken in general accordance with the GWRC Code of Practice for River Management Activities, 4 December 2019.	RC
90.	The Consent Holder must ensure that Construction Works undertaken within the river channel do not exceed 12 hours per day and must provide two consecutive work-free days within every seven days.	RC
91.	Construction works within the river channel must be avoided when flow (as measured at Taita Gorge) is below the minimum low flow of 1.2 cumecs specified in Table 8.1 of the PNRP, Appeals version (as resolved by Consent Order granted 11 June 2021).	RC
92.	Where practicable, construction works on the edge of the river channel must involve the construction of a temporary protective bund (or similar) such that works are completed in the dry or in a standing water channel.	RC
93.	All vehicles used in the river corridor are to have the exterior cleaned so they are free of sediment prior to entering the river corridor.	RC
94.	Prior to Construction Works commencing, the Consent Holder in conjunction with a Suitably Qualified Person must undertake a trial to determine the best	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>way for vehicles to access Te Awa Kairangi / Hutt River, using a method which minimises sedimentation effects on the river. The trial is to consider vehicle speed, number of vehicles accessing at one time, water depth, length of access and direction. The trial must also consider the optimum number and location of crossing points. In designing and undertaking the trial, the Consent Holder should invite the Manager to observe key activities involved in the trial. The results of the trial and the recommendations must be submitted to Manager for information, and the recommendations of the trial implemented in daily Construction Works within the river through the ESCP and SSES CPs.</p>	
95.	<p>All disturbed areas must be stabilised as soon as practicably possible upon completion of works in that 500 m lineal reach, in accordance with the stabilisation methods set out in the ESCP or SSES CP.</p>	RC

96.

The following minimum monitoring measures for erosion and sediment control must be implemented for activities within the river corridor:

RC

- a) Routine weather forecast monitoring to identify climatic conditions which will result in rainfall on site and/or increase in river levels;
- b) Installation of telemetered continuous turbidity sensors at the Kennedy-Good, Melling, Ewen, and Ava Bridges;
- c) Grab samples must be undertaken where the area of disturbance is more than 500 m upstream of a continuous monitoring location (as measured by the river centreline). Where required, grab sampling must be undertaken twice a day (once during works and once 1 hour after works cease) for two weeks from commencing disturbance. Sampling must be continued for an additional two weeks from the day of any breach of the interim proactive trigger (set out in Table 2) occurs or until work at disturbed area is complete; and
- d) Grab sampling in response to rainfall trigger events as required by condition 99 for discharges from activities outside the river corridor.

The monitoring required by (b) and (c) above is to assess if the ESC conditions allow the River to return to ambient clarity approximately 1 hour after completion of works and if necessary, to inform modification of measures to improve water quality during construction, in accordance with interim turbidity triggers in the table below.

The interim triggers will act as the threshold to prompt investigation of the probable cause of exceedance and implementation of actions in Condition 98 to improve effectiveness of ESC measures in the river corridor. The triggers may be changed (up or down) upon the recommendation of the Project ecologist through a review of the ESCP, under condition 6.

Table 2 Proposed Turbidity monitoring management interim triggers

Trigger type	Change in Turbidity	Action
Proactive interim trigger	The value at the monitoring location downstream the work site is 10% Different from the value at the control and the downstream measurement is above 15 NTUs in the following scenarios; 1) One hour after the work is completed for the day; or 2) In a flood event when flow has exceeded an event with a 1 year return period at Taita Gorge and is receding below the peak of the event until works in the river recommence (and	Within 48 hours of the exceedance investigate probable cause of exceedance. Implement improvement to measures as soon as practicable. Undertake field monitoring.

	scenario 1 applies once again).	
Management interim trigger	The value at the monitoring location downstream the work site is 15% Different from the value at the control and the downstream measurement is above 15 NTUs in the following scenarios; 1) One hour after the work is completed for the day; or 2) In a flood event when flow has exceeded an event with a 1 year return period at Taita Gorge and is receding below the peak of the event until works in the river recommence (and scenario 1 applies once again).	Under actions for the proactive trigger AND undertake an ecological assessment of the effect of the exceedances and provide recommendations on site management adjustments and the suitability of the interim trigger for water clarity to return approximately 1 hour after completion of works.

Note: That for a period of approximately 1 hour the downstream values will naturally exceed upstream values as the river clears.

Should further monitoring results demonstrate that actions proposed above are insufficient in the opinion of a Suitably Qualified Person then the active management response process in condition 88 applies.

The following contingency measures may be considered when responding to the proactive and management triggers, along with any other contingency measures identified:

- a) Reduction of the maximum daily footprint;*
- b) Reduction of the maximum daily work period;*
- c) Installation of geofabric in the internal structure of protective bunds to filter sediment in groundwater flows between standing water and the main river flow;*
- d) Temporary armouring of exposed surfaces that generate sediment such as a lens of clay material or the removal of the material. This would involve grading excavated material and selecting larger material to be returned to provide a cover.*

Condition number	Condition	Applies to designation (D) or resource consent (RC)
96A.	<p>The Consent Holder must engage a Suitably Qualified Person to carry out monitoring of riverbed change and gravel build up downstream of the Project reach from Ewen Bridge to Ava Bridge every 2 years post the commencement of construction works for 10 years (or a lesser time if recommended by the Suitably Qualified Person), to identify any unexpected gravel build up which may affect the conveyance of flood waters.</p> <p><i>Note – any gravel identified as needing to be removed by the Suitably Qualified Person will be managed through normal maintenance gravel extraction activity, in accordance with the GW Hutt River management consent (WGN130264) – resource consent decision, dated 27 May 2020.</i></p>	RC
Erosion and Sediment Control – outside the river corridor		
97.	<p>Prior to bulk earthworks commencing within an area, a certification statement from a Suitably Qualified Person and as-built plans must be provided to the Manager to demonstrate that all erosion and sediment control structures, including sediment retention ponds, decanting earth bunds and diversion channels and/or bunds, have been constructed in accordance with the certified ESCP and/or SSESCP.</p> <p>All erosion and sediment control measures remain the responsibility of the Consent Holder and no erosion and sediment control measures may be removed or decommissioned prior to receiving written confirmation that the relevant phase of works is stabilised to the satisfaction of the Manager.</p>	RC
98.	<p>The Consent Holder must have the site audited by a Suitably Qualified Person on a minimum of a weekly basis (unless a reduced frequency is agreed in writing by the Manager) to ensure that all erosion and sediment controls are operating effectively in accordance with the ESCP.</p> <p>Typical audit requirements should include but are not limited to:</p> <ul style="list-style-type: none"> a) Date; b) Name of auditor; c) Site condition; d) Weather conditions at the time of audit e) Sediment management (including identification of problem areas, and measures put in place to treat these areas); f) Condition of sediment treatment devices; and g) Maintenance required, and, if so, the date by which this will be completed and the name of the contractor responsible for this maintenance. <p>The audits must be recorded in writing and submitted to the Manager upon request.</p>	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)																											
	<p><i>Note: Any audits carried out by Wellington Regional Council or its contractors do not constitute the weekly site audits required by this condition.</i></p>																												
99.	<p>When rainfall events (7mm/1 hour and 20 mm/24 hours) are forecasted rainfall contingency measures, which are to be specified in the ESCP and/or SSESCPs, must be put in place.</p> <p>Typical rainfall contingency measures include but are not limited to:</p> <ul style="list-style-type: none"> a) Temporary stabilisation using hardfill, geofabric and mulch; b) Formation of cut off bunds, contour drains to contain/separate dirty and clean water; c) Removal and wash down of equipment and plant; d) Surface roughening of slopes to minimise erosion potential; and e) Flocculation of treatment devices. 	RC																											
100.	<p>The Consent Holder must sample and record the following parameters as soon as practicable, and within daylight hours, after a rainfall event (7mm/1 hour and 20 mm/24 hours) is recorded at the GWRC rainfall gauge at Mabey Road depot.</p> <table border="1" data-bbox="470 1070 1385 1391"> <thead> <tr> <th rowspan="2">Parameter</th> <th colspan="4">Location (device)</th> <th colspan="2">Location (waterbody)</th> </tr> <tr> <th>inflow</th> <th>Forebay</th> <th>Pond</th> <th>Outflow</th> <th>Downstream (reasonable mixing zone)</th> <th>Upstream</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>X</td> <td>-</td> <td>-</td> <td>x</td> <td>x</td> <td>x</td> </tr> <tr> <td>Turbidity</td> <td>X</td> <td>-</td> <td>-</td> <td>x</td> <td>x</td> <td>x</td> </tr> </tbody> </table> <p><i>Note: The consent holder is only required to undertake outflow and downstream (reasonable mixing zone) monitoring if the device is discharging.</i></p> <p>The monitoring location will be at the outflow. Where possible upstream and downstream monitoring will also be undertaken.</p> <p><i>Note: The discharge maybe to local stormwater system and upstream and downstream monitoring may not be possible.</i></p> <p>The monitoring requirement may cease when the catchment of the treatment device has been completely stabilised and the device decommissioned, unless otherwise agreed in writing by the Manager.</p>	Parameter	Location (device)				Location (waterbody)		inflow	Forebay	Pond	Outflow	Downstream (reasonable mixing zone)	Upstream	pH	X	-	-	x	x	x	Turbidity	X	-	-	x	x	x	RC
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pH	X	-	-	x	x	x																							
Turbidity	X	-	-	x	x	x																							
101.	<p>In the event that:</p> <ul style="list-style-type: none"> a) the monitoring required under condition 100 indicates that, at the outflow of the device, the NTU value is 170 NTU or greater, and/or (for any chemically-treated device) the pH is at or below 5.5 or above 8.5; or b) there is a failure of any erosion and sediment control measure, or discharge from any non-stabilised area that is not treated by an 	RC																											

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>erosion and sediment control measure, where any contaminants (including sediment) or material are released and enter any water body;</p> <p>The Consent Holder must:</p> <ul style="list-style-type: none"> i. Immediately notify the Manager of the issue; ii. Immediately undertake onsite investigations to determine the cause of the issue, and what changes can be made to onsite management to prevent re-occurrence; iii. Re-establish control measures as soon as practicable where these have failed or have not been implemented in accordance with the ESCP; iv. Liaise with the Manager to establish whether any additional remediation and/or mitigation is required, and carry out any such action as required by the Manager; v. Record the date, time and weather conditions, details of investigations, probable cause of the issue, lessons learnt and actions taken or to be taken to prevent re-occurrence; and vi. Within 5 working days of the issue being recorded, provide the information required by (v) above to the Manager. <p>All measures to prevent a reoccurrence of the exceedance or failure must be to the satisfaction of the Manager.</p>	
102.	<p>Unless otherwise agreed in writing by the Manager, where there has been a failure or discharge in terms of condition 101 of this consent, the Consent Holder must engage a Suitably Qualified Person to inspect the affected water body within 3 days of the Consent Holder becoming aware of the failure or discharge and provide recommendations on any remediation and/or mitigation required. Any conclusions and recommendations made by the Suitably Qualified Person must be recorded in writing and provided to the Manager within 10 working days of the incident.</p>	RC
103.	<p>All fill material that is imported to the Project area must be restricted to natural material such as clay, soil and rock, and inert material such as concrete and brick, which, when buried, will have no adverse effect on people or the environment.</p> <p>All fill material must be placed and compacted so as to avoid erosion and instability. Any erosion of soil including failure of cut and fill batters that is attributable to the works must be contained, remedied and mitigated by the consent holder to the satisfaction of the Manager.</p>	RC
	Erosion and Sediment Control Management Plans	
104.	<p>The Consent Holder must engage a Suitably Qualified Person to prepare an Erosion and Sediment Control Plan (ESCP). The ESCP must satisfy the limits, management triggers and thresholds set in conditions 80, 81, 89 – 96</p>	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>and 97 – 103 and be in general accordance with the draft ESCP submitted with the application and the following guidance:</p> <ul style="list-style-type: none"> a) GWRC Erosion and Sediment Control Guide for Land Disturbing Activities (February 2021); b) Waka Kotahi Erosion and Sediment Control Guidelines for State Highway Infrastructure (September 2014); and c) GWRC Code of Practice for River Management Activities, 4 December 2019, unless something in this consent changes the requirements specified for activities in the Code of Practice. <p>The ESCP must include as a minimum:</p> <ul style="list-style-type: none"> d) Procedures for determining staging and sequencing of works; e) Responsibilities and contact details of all parties responsible for the operation and maintenance of all key erosion and sediment control structures; f) Methods for reviewing and amending the ESCP as required; g) Details of all principles, procedures and practices that will be implemented to undertake erosion and sediment control and minimise the potential for sediment discharge from the site; h) The design specification for all erosion and sediment control structures; i) Details of erosion and sediment controls including supporting information (calculations and design drawings); j) Details of progressive stabilisation of earthworks areas; k) Methods for decommissioning erosion and sediment control structures; l) Identification of specific areas / activities that have the potential to generate sediment discharges that will require preparation of a Site Specific ESCP (SSESCP); m) Procedure for the preparation of Site Specific Erosion Sediment Control Plans; n) Monitoring procedures and frequency in accordance with conditions 96, 98, and 100; o) Identification of the process for incident and active management response (consistent with conditions 88, 96, 101 and 102; and p) To satisfy the requirements of other management plans (e.g. EMP) and conditions where relevant to ESC. 	
105.	Site Specific Erosion and Sediment Control Plans (SSESCPs) must be prepared by a Suitably Qualified Person for the specific work areas / activities identified in the ESCP.	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>SSESCPs for all Construction Works must include but not be limited to the following:</p> <ul style="list-style-type: none"> a) Scope and Management <ul style="list-style-type: none"> i) Detailed description of the specific site activities and construction methodology and the boundary and extent of works for that specific SSESCP; ii) Programme for the relevant activities iii) Responsibilities and contact details of all parties responsible for monitoring the compliance of the operation and maintenance of all erosion and sediment control structures iv) Identification of any specific Consent Condition requirements b) Measures <ul style="list-style-type: none"> i) Identification of potential for erosion or sediment generation ii) Proposed methods of avoiding, minimising and treating sediment; iii) Drawings, to an appropriate scale, with design calculations where required, iv) Actions in advance of and following a rainfall and or flood event v) Maintenance procedures vi) Decommissioning c) Monitoring & Reporting <ul style="list-style-type: none"> i) Inspections and audits ii) Monitoring iii) Reporting <p>SSESCPs must be reviewed every 12 months and updated as required. The updates must take into consideration monitoring results, practical experience gained from the site, and improvements and innovations in erosion and sediment control practice. As a minimum the outcome of the review will be reported to the Manager and confirmation sought that an update is not required. This review must be submitted at least 20 working days prior to the 1 year anniversary of the certification of the SSESCP.</p>	
106.	<p>The consent holder must include a flocculation management section in the ESCP. The flocculation management methodology must include as a minimum:</p> <ul style="list-style-type: none"> a) Specific design details of the chemical treatment dosing system, based on a rainfall activated methodology for the decanting earth bunds (DEBs) or sediment retention ponds (SRPs); 	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)						
	<p>b) Monitoring, maintenance (including post-storm) and contingency programme (including a record sheet);</p> <p>c) Details of optimum dosage (including assumptions);</p> <p>d) Results of initial chemical treatment trial;</p> <p>e) A spill contingency plan; and</p> <p>f) Details of the person or bodies that are responsible for long-term operation and maintenance of the chemical treatment system and the organisational structure that will support this system.</p> <p>The use of flocculant must not commence until the consent holder has received notice in writing that the ESCP, including the flocculation management methodology, has been certified by the Manager. All DEBs/SRPs must be treated in accordance with the certified plan.</p> <p>The flocculation management component of the ESCP must be reviewed on a yearly basis. Reviews must reference monitoring data and/or further bench testing results to determine the effectiveness of the flocculation and whether it needs to be amended to ensure on-going optimal performance. The findings of this review must be submitted to the Manager upon request.</p>							
	Stormwater							
107.	<p>The Consent Holder must ensure that the stormwater design is in general accordance with the Catchments & Treatment Diagram plans (A16-4381-SK321 to SK324 Rev A) and the Proposed Drainage Service Works drawings referred to in condition 3.</p> <p>The Consent Holder must ensure that the stormwater design for the permanent stormwater discharges includes stormwater management systems (treatment and detention devices) which:</p> <ul style="list-style-type: none"> a) minimise the adverse effects of stormwater runoff from new works within the Project Area; b) For the catchments specifically identified in the table below, the Consent Holder must ensure that the corresponding stormwater treatment device is provided. The Consent Holder may use alternative stormwater treatment devices to those set out in the table, provided that equivalent performance is achieved, and the relevant design requirements below are met. <table border="1" data-bbox="509 1765 1337 2016"> <thead> <tr> <th>Catchment</th> <th>Indicative Area (m²)</th> <th>Treatment Device</th> </tr> </thead> <tbody> <tr> <td>SH2 North of proposed interchange (including Northbound entry ramp and southbound exit ramp)</td> <td>14,600</td> <td>Vegetated swale with forebay for gross pollutant capture (located in the berm)</td> </tr> </tbody> </table>	Catchment	Indicative Area (m ²)	Treatment Device	SH2 North of proposed interchange (including Northbound entry ramp and southbound exit ramp)	14,600	Vegetated swale with forebay for gross pollutant capture (located in the berm)	RC
Catchment	Indicative Area (m ²)	Treatment Device						
SH2 North of proposed interchange (including Northbound entry ramp and southbound exit ramp)	14,600	Vegetated swale with forebay for gross pollutant capture (located in the berm)						

Condition number	Condition			Applies to designation (D) or resource consent (RC)
	SH2 South of proposed interchange (including Northbound exit ramp)	23,400	Proprietary filter treatment devices	
	SH2 adjacent to Railway station	23,500	Proprietary filter treatment devices	
	Interchange area, SH2 Southbound entry ramp and Pharazyn St.	9,188	Rain garden	
	Pharazyn St adjacent to Railway Station Carpark	3,450	Rain garden	
	Railway Station Carpark	6,150	Proprietary bioretention treatment devices	
	Railway Station entrance	5,674	Rain garden	
	Proposed Melling Bridge	7,200	Vegetated swale with forebay for gross pollutant capture (located in the berm)	
	Proposed river berm carpark	7,500	Vegetated swale (located in the berm) with sheet flow pre-treated with a grass filter strip	
	Pharazyn Street between the proposed Railway Station and Marsden Street	Unknown	Treatment via bioretention (rain gardens or tree pits)	
	Project areas within the Hutt CBD where road is being reconstructed	Unknown	Treatment via bioretention (rain gardens or tree pits)	
	Melling Stub Car park – as illustrated on ‘Indicative carpark layout plan – Melling Stub’	Unknown	Treatment via bioretention (rain gardens or tree pits)	

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>c) The Consent Holder must prepare a Stormwater Treatment Option Assessment Report addressing runoff from Queens Drive between Rutherford Street and High Street, to identify the catchment extents, describe the treatment options considered, any constraints encountered, and the treatment option selected (if any) for this area. This must be provided to the Manager for certification prior to, or at the outset of, commencing detailed design. The purpose of the certification is to confirm that adverse effects of the stormwater discharges from this catchment have been minimised to the extent practicable. The Consent Holder must ensure that stormwater treatment in this area, if determined to be practicable, is provided in accordance with the certified report.</p> <p><i>Note - treatment of the discharges in this location would only be practicable if an area of land can be made available for stormwater treatment facilities in the vicinity of the low-point of this section of road.</i></p> <p>d) where proprietary treatment devices are proposed, only devices with proven ability to achieve a greater than 75% TSS removal on a long-term average basis must be accepted (e.g. for proprietary filter devices Stormwater360 Stormfilter® and for bioretention devices Stormwater360 Filtterra®);</p> <p>e) provide for stormwater neutrality to the extent practicable;</p> <p>f) incorporates detention devices that are designed for events up to the 1% AEP event;</p> <p>g) incorporates, where stormwater is from the SH2 interchange works, the design is in accordance with <i>P46 NZ Transport Agency State Highway Stormwater Specification</i> (April 2016) and <i>Waka Kotahi's Stormwater Treatment Standard for State Highway Infrastructure May 2010</i> including an allowance for climate change impacts out to 100 years (2120);</p> <p>h) where stormwater is from altered local roads or other areas not covered by clause (g), including the railway station and Riverbank carparks, design these stormwater devices in accordance with the <i>Water Sensitive Design for Stormwater: Treatment Device Design Guideline Version 1.1 (December 2019)</i> (Wellington Water Ltd) and the <i>Wellington Water Regional Standard for Water Services Version 3.0 (December 2021)</i> (Wellington Water Ltd) to the extent practicable;</p> <p>i) includes plaques at publicly accessible sumps to communicate with the public on water quality in the stormwater receiving environment (e.g. a fish symbol or similar);</p> <p>j) avoid locating stormwater grates or manhole covers within cycle paths, wherever practicable, to minimise risks to path users;</p>	

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	<p>k) If the existing Melling railway station roof is galvanised steel, and if practicable from a heritage perspective, paint the roof. If the roof cannot be painted, runoff from the roof must be treated via the carpark rain garden system.</p>	
108.	<p>The Consent Holder must submit the final detailed design of the stormwater treatment devices to the Manager for certification against the criteria in condition 107 at least 30 days prior to the start of construction of the proposed stormwater treatment devices.</p> <p>The final detailed stormwater treatment device design must be prepared by a Chartered Professional Engineer and must include:</p> <ul style="list-style-type: none"> a) Drawings; b) Specification design report(s); and c) Calculations, catchment plans detailing the area contributing to each stormwater management device, and planting plans for the stormwater management devices. <p><i>Advice Notes: A response from the Manager is expected to be provided within 30 Days following the provision of the final detailed design.</i></p> <p><i>The detailed design should include design drawings and calculations for all associated stormwater structures, culverts, outfalls, erosion protection measures, bypass devices, swales, raingardens, proprietary treatment devices, access provisions, and any overland flow paths.</i></p>	RC
109.	<p>The Consent Holder must construct all permanent stormwater devices in general accordance with the design(s) certified in condition 108.</p>	RC
110.	<p>The Consent Holder must submit As-Built Plans for permanent stormwater management devices to the Manager within 3 months of practical completion of the stormwater management works.</p> <p>The As-Built Plans must be certified by a Chartered Professional Engineer and must include:</p> <ul style="list-style-type: none"> a) The surveyed locations (to the nearest 0.1 m) and elevations (to the nearest 0.01 m) of all stormwater devices with co-ordinates expressed in terms of the New Zealand Transverse Mercator Projection and LINZ datum; b) Stormwater management device details including locations, dimensions, volumes, flood levels, sections, treatment efficiencies, inlet, discharge rates and outlet structures; c) Photographs at all stormwater system outlet locations; and d) Documentation of any differences between the certified design plans under condition 108 and the As-Built Plans submitted under this condition. 	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	Culverts and Bridges	
111.	The design for upgrade of the culvert conveying Tirohanga Intersection Stream (Outlet 38) must include provision of fish passage consistent with the requirements of Regulation 70 of the Resource Management (National Environmental Standards for Freshwater) Regulations 2020. The culvert must be constructed and maintained in accordance with these regulations.	RC
112.	<p>The design for stormwater pipes and culverts under the newly constructed section of stopbank must:</p> <ul style="list-style-type: none"> a) combine pipes and culverts where practicable to minimise the number of projections through the stopbank; b) be designed to allow for future flow increases associated with climate change; and c) provide for automated gates (penstocks) where back flow prevention is required on culverts replaced under the stopbanks. 	RC
113.	<p>The Consent Holder must provide drawings of the detailed design of all culverts and bridges to be constructed in or over watercourses, to the Manager for certification against the criteria below at least 30 Days prior to the start of construction of the relevant structures.</p> <ul style="list-style-type: none"> a) All culverts must be designed in accordance with conditions 111 and 112. b) All bridges must pass the 2,800 cumec design flood and be designed in accordance with the Waka Kotahi NZ Transport Agency's <i>Bridge Manual SPIM/022 Third Edition, Amendment 3</i> dated October 2018. Any departures from the Bridge Manual must be accompanied by a written report prepared by a Suitably Qualified Person setting out the design requirements and why the Bridge Manual and any other relevant standards cannot be met and the implications of the departure from the Bridge Manual in terms of resilience. <p>If a response has not been received from the Manager within 20 Days following the submission of the design, the design is deemed to be certified.</p> <p><i>Advice Note – in addition, the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 require the Consent Holder to supply the regional council with information on culverts and flap gates as set out in Regulations 62, 63 and 65.</i></p>	RC
114.	The Consent Holder must construct all culverts and bridge structures in general accordance with the certified design in condition 113.	RC
115.	The Consent Holder must provide As-Built Plans certified by a Chartered Professional Engineer confirming that all permanent structures in and over watercourses have been constructed in accordance with the certified design to the Manager within 90 Days of completion of the Construction Works.	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
115A.	For the new stream culverts numbered outlets 27, 31, 36b and 38, the consent holder must provide to the Manager within 20 working days of having completed construction of the structure, the information required by Regulations 62 and 63 of the Resource Management (National Environmental Standards for Freshwater) Regulations 2020, and Regulation 68 if any of the culverts incorporate aprons or ramps, together with the time and date of the collection of the information.	RC
115B.	For the new automated penstocks (non-passive flapgates) on stream outlets numbered 27 and 31, the consent holder must provide to the Manager within 20 working days of having completed construction of the structure, the following information required by Regulations 62 and 65 of the Resource Management (National Environmental Standards for Freshwater) Regulations 2020, and Regulation 68 if any of the automatic penstocks incorporate aprons or ramps, together with the time and date of the collection of the information.	RC
Groundwater		
116.	<p>The consent holder must:</p> <ul style="list-style-type: none"> a) Install and maintain the groundwater monitoring bores for the period of monitoring identified in the final GMP. b) Groundwater level and groundwater quality data will be collected from the monitoring bores identified in the GMP at the frequency and duration identified in the final GMP. c) Monitor groundwater levels in existing piezometers and in newly installed piezometers shown in the final GMP (required as part of this consent) for a period of at least 3 months (12 months where practicable) before the commencement of construction. The variability in groundwater levels over this period, together with the monitoring trends obtained during the investigation and detailed design phases, will be used to establish seasonal groundwater level variability and establish trigger levels. d) Data collected from monitoring will be collated, plotted, evaluated and submitted to the Manager (Greater Wellington Regional Council) quarterly. e) Continue monitoring groundwater for at least one month following the completion of the works. Evidence that groundwater levels and quality have stabilised is to be submitted to the Manager for certification before monitoring is ceased. <p>The location, implementation and operation of the monitoring bores must be in general accordance with the plans contained in the final Groundwater Management Plan (GMP) required by condition 120.</p>	RC
117.	All tools used for aquifer interception must be cleaned and disinfected with appropriate solvent (e.g. DECON 90) including the steel casings that will be	RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)				
	utilised for the construction and encasement of the bridge piles. Tools must be cleaned and disinfected in between work on each pile.					
118.	Prior to the construction of bridge piles, boreholes should be drilled at the exact location of the piles to confirm geology, in accordance with the requirements of conditions 22 - 33. These boreholes must be drilled to a depth greater than the proposed pile depth to confirm geology.	RC				
119.	<p>The Consent Holder must ensure that construction of the bridge piles is undertaken in general accordance with the indicative piling methodology contained within Chapter 5 of the AEE and the Structural Design Drawings A16-4381-S101 and A16-4381-S102, dated 8/7/2021.</p> <p>In the event of any updates and or departures to the piling construction methodology, a report detailing the changes in methodology should be submitted to the Manager for certification. This report should detail the nature of the update/departure from the piling construction methodology, as well as technical justification and management of potential risks to the aquifer for the proposed changes. The report should have enough detail to demonstrate that the revised piling methodology is suitable as part of the Artesian Aquifer Interception Management Plan before construction of the piles.</p>	RC				
120.	<p>The Consent Holder must submit a final Groundwater Management Plan (GMP) prepared by a Suitably Qualified Person prior to any Construction Works that may encounter or affect groundwater (i.e. river works, bridge piling, open excavations for utilities relocation, culvert outlets and new pump stations).</p> <p>The purpose of the final GMP is to avoid or otherwise minimise adverse effects on the underlying (Taita and Waiwhetu) aquifers and existing users of groundwater during construction of the Project.</p> <p>The final GMP must be in general accordance with the GMP submitted as Appendix D of Technical Report #4 Hydrogeology (draft GMP) and include as a minimum:</p> <ul style="list-style-type: none"> a) Location of groundwater level and quality monitoring bores in accordance with Figure 3 of the draft GMP; b) Frequency and durations of groundwater level and quality monitoring in accordance with section 3.3 of the draft GMP; c) Baseline monitoring data taken in advance of works; d) Once baseline groundwater levels have been identified, 'Alert' and 'Action' trigger levels consistent with the changes in water levels identified in section 4.1 of the draft GMP: <table border="1" data-bbox="470 1877 1329 2056"> <tbody> <tr> <td data-bbox="470 1877 703 2011">Alert level</td> <td data-bbox="703 1877 1329 2011">Lowest recorded level – (predicted drawdown) or Lowest recorded level – 0.5 m, whichever is the greater</td> </tr> <tr> <td data-bbox="470 2011 703 2056">Action level</td> <td data-bbox="703 2011 1329 2056">A further 0.2 m variation</td> </tr> </tbody> </table>	Alert level	Lowest recorded level – (predicted drawdown) or Lowest recorded level – 0.5 m, whichever is the greater	Action level	A further 0.2 m variation	RC
Alert level	Lowest recorded level – (predicted drawdown) or Lowest recorded level – 0.5 m, whichever is the greater					
Action level	A further 0.2 m variation					

Condition number	Condition	Applies to designation (D) or resource consent (RC)												
	<p>e) Once baseline conditions have been identified, Alert and Action trigger levels consistent with the changes in groundwater quality indicators identified in section 4.2 of the draft GMP:</p> <table border="1" data-bbox="469 560 1310 898"> <thead> <tr> <th></th> <th>Turbidity</th> <th>pH</th> <th>Hardness (CaCO₃)</th> </tr> </thead> <tbody> <tr> <td>Alert level</td> <td>2.5 NTU</td> <td>TBD – 0.5 below the minimum (from baseline data)</td> <td>100 mg/L</td> </tr> <tr> <td>Action level</td> <td>5 NTU</td> <td>TBD – 0.75 below the minimum (from baseline data)</td> <td>200 mg/L</td> </tr> </tbody> </table> <p>f) Review and reporting requirements; g) Roles and responsibilities; and h) Contingency measures, in general accordance with section 5 of the draft GMP, to be implemented if Alert or Action trigger levels are exceeded, including a response plan.</p> <p>The final GMP must be updated whenever any investigations or works identify information which changes the understanding of local conditions, or additional monitoring is required.</p>		Turbidity	pH	Hardness (CaCO ₃)	Alert level	2.5 NTU	TBD – 0.5 below the minimum (from baseline data)	100 mg/L	Action level	5 NTU	TBD – 0.75 below the minimum (from baseline data)	200 mg/L	
	Turbidity	pH	Hardness (CaCO ₃)											
Alert level	2.5 NTU	TBD – 0.5 below the minimum (from baseline data)	100 mg/L											
Action level	5 NTU	TBD – 0.75 below the minimum (from baseline data)	200 mg/L											
121.	<p>The Consent Holder must prepare an Artesian Aquifer Interception Management Plan. The purpose of the AAIMP is to avoid and otherwise minimise effects on the Waiwhetu aquifer during piling activities associated with bridge construction.</p> <p>The AAIMP must include as a minimum:</p> <ul style="list-style-type: none"> a) The depth at which the aquitard is expected to be encountered within the area of proposed excavations and piling activities; b) A final construction methodology for the piling and drilling into the Waiwhetu Aquifer including how the bridge piles will be constructed to ensure construction is sealed against the flow of the river; c) A description of how the river and aquifer will be protected from drilling mud, oil leaks from drilling equipment and spills during, or as a result of, the drilling process; d) A description of mitigation measures in the event drilling fluid leaks/spills into the aquifer or river; e) Grouting management requirements; f) Monitoring requirements; g) Construction details and location of the monitoring bores, as well as frequency and duration of monitoring turbidity levels in groundwater. 	RC												

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>Furthermore, a description of the relevant turbidity levels required to stop works (trigger levels) and the processes that are (or will be) in place to ensure works stop in a timely manner; and</p> <p>h) Details of consultation with Wellington Water Ltd.</p>	
121A	<p>Suitably Qualified Persons (hydrogeologist, hydrologist and geomorphologist) shall determine the final cut off level for the piles of the existing Melling Bridge being removed, at or below the riverbed, in order to avoid adverse effects to the underlying aquifers. Once the level and any other relevant details of the works are finalised, they, and any other relevant details, shall be added to the GMP but are not required to be certified.</p>	RC
	Public access and Recreation	
122.	<p>The Consent Holder must construct a replacement skatepark, of no lesser standard than the existing skatepark, before the existing skate park at Melling is removed.</p> <p>The location and design of the replacement skatepark must be in accordance with Ministry of Justice National Guidelines for Crime Prevention through Environmental Design in New Zealand (November 2005) and the ULMP required by condition 63.</p>	D
123.	<p>The Consent Holder must investigate opportunities to relocate the informal basketball court in the Riverbank carpark, including consideration of potential co-location with the relocated skatepark.</p>	D
124.	<p>The Consent Holder must continue to consult with the Riverbank Market operators to determine and make available an appropriate temporary site during Construction Works.</p>	D
125.	<p>The Consent Holder must maintain recreational connectivity along the river, by either developing a new a walking and cycling trail with a minimum width of 3 m (subject to localised narrowing to accommodate specific constraints) and/or maintaining access to the existing Hutt River Trail, on at least one side of Te Awa Kairangi throughout construction, with signposting installed for any necessary detours.</p>	D + RC
126.	<p>During construction operations the Consent Holder must erect and maintain appropriate signage in the vicinity of the Construction Works, in prominent places and at each entry point near the area of the works taking place, to notify the public of the construction works and any access restrictions that apply because of the works and guidance on any detours.</p>	D + RC
	Reporting	
127.	<p>A Quarterly Report must be provided to the Manager for the duration of the construction phase of the Project. The Quarterly Report must be provided within 10 working days of the last day of the preceding month.</p>	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>The purpose of the Quarterly Report is to provide regular updates in respect of works occurring, progress of works, including the undertaking and completion of activities required by these conditions of resource consent, and any issues that have arisen during the preceding quarter that may have had an impact on the compliance with the conditions of these resource consents.</p> <p>As a minimum the Quarterly Report must include:</p> <ul style="list-style-type: none"> i. A progress and programme update, including works that have been undertaken during the preceding quarter and works that are scheduled to occur in the subsequent quarter; ii. Details of any non-compliances with conditions and actions undertaken to prevent the likelihood of future non-compliances; iii. Any complaints received, and actions taken in accordance with the Complaints Register process required by conditions 15-17 (including to prevent the same or similar complaint in the future); iv. Details of the programming of any management plan updates; and v. The outcomes of monitoring and accompanying reporting, other than as included in an Annual Report under condition 128, required by management plans and/or the conditions of these resource consents. <p>A copy of each Quarterly Report must be:</p> <ul style="list-style-type: none"> vi. Provided to the MWSG at the same time as the Quarterly Report is provided to the Manager; and vii. Made available to any other party upon request. 	
128.	<p>The Consent Holder must provide an Annual Monitoring Report to the Manager by 30 June each year (or on an alternative date as agreed to by the Manager).</p> <p>The purpose of this report is to provide an overview of the monitoring and reporting work undertaken, and any environmental issues that have arisen during the construction of the Project.</p> <p>As a minimum, the Annual Monitoring Report must include:</p> <ul style="list-style-type: none"> a) Results of water quality and freshwater (which covered fish, macroinvertebrates and bed characteristics) monitoring required in accordance with the conditions and a summarised interpretation of this data; b) Identification of any trends or patterns in monitoring data that should activate active management response as per condition 88. c) Performance of ESC structures; d) Improvements to ESC principles, procedures, practices and monitoring procedures and construction planning e) Updates to the ESCP and/or SSES CPs; f) Any reasons for non-compliance or difficulties in achieving compliance with the conditions; 	D + RC

Condition number	Condition	Applies to designation (D) or resource consent (RC)
	<p>g) Any work that has been undertaken to improve the environmental performance of the site or that is proposed to be undertaken in the upcoming year;</p> <p>h) Recommendations on alterations to the monitoring required and how and when these will be implemented through changes to the relevant management plans and / or active management response; and</p> <p>i) Any other issues considered relevant by the Consent Holder.</p>	

4. Operation and maintenance conditions

4.1 Operation and maintenance of RiverLink – designation conditions for GWRC flood protection designation

The proposed designation conditions for the GWRC flood protection designation are identified as follows:

Condition number	Condition
DG1	<p>The Requiring Authority must maintain revegetation areas within the designation in accordance with the requirements of construction condition 71 and the Planting Establishment and Management section of the EMP until such time as the following performance conditions are satisfied:</p> <ul style="list-style-type: none"> a) For native canopy planting, until 80% native canopy closure is achieved b) Where native planting does not comprise the canopy, i.e. underplanting of bioengineered flood protection planting, maintenance should be undertaken until the native understory reaches a 60% cover. <p>The Consent Holder may engage a Suitably Qualified Person to provide confirmation of completion of the above maintenance performance standard for each required planting/revegetation area. A copy of this confirmation can then be provided to the Manager, at which time this condition will be satisfied.</p>
DG2	<p>Use of the driveway serving 39A and 39B Mills St shall be limited to residential activities and non-routine stopbank and fence maintenance, plus emergency access unless otherwise agreed with all owners of these properties.</p>
DG3	<p>A maintenance agreement must be prepared for all pedestrian and cycle paths within the designation, setting out the party or parties responsible for maintenance of specific paths. The maintenance agreement must include details of who will hold responsibility for long-term maintenance of the paths and the organisational structure which will support this process.</p> <p>A copy of the maintenance agreement must be supplied to the Manager within 3 months of completion of construction of the Project, or as otherwise agreed with the Manager.</p>

4.2 Operation and maintenance of RiverLink – designation conditions for GWRC public transport

The proposed designation conditions for the GWRC public transport designation are identified as follows:

Condition number	Condition
DP1	<p>A maintenance agreement must be prepared for all pedestrian and cycle paths within the designation, setting out the party or parties responsible for maintenance of specific paths. The maintenance agreement must include details of who will hold</p>

	<p>responsibility for long-term maintenance of the paths and the organisational structure which will support this process.</p> <p>A copy of the maintenance agreement must be supplied to the Manager within 3 months of completion of construction of the Project, or as otherwise agreed with the Manager.</p>
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4.3 Operation and maintenance of RiverLink – designation conditions for Waka Kotahi state highway designation and designation alteration are:

The proposed designation conditions for the Waka Kotahi state highway designation and designation alteration are identified as follows:

Condition number	Condition
DW1	<p>The Requiring Authority must maintain revegetation areas in accordance with the requirements of construction condition 71 and the Planting Establishment and Management section of the EMP until such time as the following performance conditions are satisfied:</p> <ul style="list-style-type: none"> a) For native canopy planting, until 80% native canopy closure is achieved b) Where native planting does not comprise the canopy, i.e. underplanting of bioengineered flood protection planting, maintenance should be undertaken until the native understory reaches a 60% cover. c) The Consent Holder may engage a Suitably Qualified Person to provide confirmation of completion of the above maintenance performance standard for each required planting/revegetation area. A copy of this confirmation can then be provided to the Manager, at which time this condition will be satisfied.
DW2	<p>A maintenance agreement must be prepared for all pedestrian and cycle paths within the designation, setting out the party or parties responsible for maintenance of specific paths. The maintenance agreement must include details of who will hold responsibility for long-term maintenance of the paths and the organisational structure which will support this process.</p> <p>A copy of the maintenance agreement must be supplied to the Manager within 3 months of completion of construction of the Project, or as otherwise agreed with the Manager.</p>

4.4 Operation and maintenance of RiverLink – designation conditions for HCC urban renewal designation are:

The proposed designation conditions for the HCC urban renewal designation are identified as follows:

Condition number	Condition
	Noise and Vibration

Condition number	Condition
DH1	<p>Where the predicted increase in traffic on local roads results in a predicted increase of noise levels at any sensitive receiver of 5 dBA or more above the 2036 'Do-Nothing' traffic model scenario, the Requiring Authority must engage with the relevant property owner(s) to offer to undertake noise reduction mitigation via building modification methods to reduce road traffic noise. Where the offer is accepted by the property owner and subject to acquiring any necessary resource consents for building alterations, habitable rooms must be modified as necessary to comply with a level of 40 dB LAeq(24hr).</p> <p>When implementing acoustic treatment for buildings pursuant to this condition, if windows need to be closed to achieve required internal noise levels, then a mechanical ventilation and cooling system must be provided, with the following minimum specification:</p> <ol style="list-style-type: none"> 1. Ventilation must be provided to achieve the requirements of Acceptable Solutions and Verification Methods for New Zealand Building Code Clause G4 Ventilation (June 2019). At the same time as meeting this Minimum Requirement, the sound of the system must not exceed 30 dB LAeq(30s) when measured 1 m away from any grille or diffuser. 2. The occupant must be able to control the ventilation rate in increments up to a high airflow setting that provides at least 6 air changes per hour. At the same time as meeting this requirement, the sound of the system must not exceed 35 dB LAeq(30s) when measured 1 m away from any grille or diffuser. 3. The system must provide cooling that is controllable by the occupant and can maintain the temperature at 25°C or less. 4. The internal air pressure must be no more than 10 Pā above ambient air pressure due to the ventilation system. <p><i>Note: An exemption to this condition is allowed for where it can be demonstrated that it is not practicable to comply with because of the existing built heritage nature of a property.</i></p> <p><i>This condition would not require any action to be taken if updated modelling, including to reflect adjustments to traffic movements and road layouts in this area, demonstrates that the final predicted traffic increases can be reduced to less than 5 dBA above the 2036 'Do Nothing' traffic model scenario.</i></p>
	Planting
DH2	<p>The Requiring Authority must maintain revegetation areas within the designation in accordance with the requirements of construction condition 71 and the Planting Establishment and Management section of the EMP until such time as the following performance conditions are satisfied:</p> <ol style="list-style-type: none"> a) For native canopy planting, until 80% native canopy closure is achieved b) Where native planting does not comprise the canopy, i.e. underplanting of bioengineered flood protection planting, maintenance should be undertaken until the native understory reaches a 60% cover. c) The Consent Holder may engage a Suitably Qualified Person to provide confirmation of completion of the above maintenance performance standard for each required planting/revegetation area. A copy of this confirmation can then be provided to the Manager, at which time this condition will be satisfied.

Condition number	Condition
	Urban Design and Outline Plans
DH3	<p>Temporary activation activities must be installed on any site listed below which is expected to remain vacant for more than 6 months following completion of the stopbank construction through the city centre.</p> <ul style="list-style-type: none"> - 4-5 Daly Street - 69-95 High Street - 6-13 Daly Street
DH4	<p>The Requiring Authority must submit an Outline Plan of Work (or Plans) to the Manager for any of the urban renewal and revitalisation activities listed below, in accordance with s176A of the RMA:</p> <ul style="list-style-type: none"> - Any temporary car park activity - Temporary activation activities - Any site access and/or alterations to existing buildings required to integrate retained buildings with the new stopbanks - Any future integration works to connect / integrate new buildings into the flood protection structures <p>As part of the Outline Plan application, an urban design statement should be provided as part of the information for s176A(3)(f), which sets out how the activity:</p> <ol style="list-style-type: none"> a) promotes quality urban design b) contributes to the outcomes sought for the Hutt City Centre as set out in the Hutt City Council Central City Transformation Plan (CCTP) March 2019 c) where relevant, provides for a promenade, between buildings and the stopbanks, which does not affect the flood protection afforded by the stopbank d) is consistent with the RiverLink Urban and Landscape Design Framework and the Urban and Landscape Master Plan (ULMP) required by condition 63 (Construction Conditions) above; and e) aligns with the Ministry of Justice National Guidelines for Crime Prevention through Environmental Design in New Zealand (November 2005) or any superseding industry standard.
DH5	<p>A maintenance agreement must be prepared for all pedestrian and cycle paths within the designation, setting out the party or parties responsible for maintenance of specific paths. The maintenance agreement must include details of who will hold responsibility for long-term maintenance of the paths and the organisational structure which will support this process.</p> <p>A copy of the maintenance agreement must be supplied to the Manager within 3 months of completion of construction of the Project, or as otherwise agreed with the Manager.</p>

4.5 Operation and maintenance of RiverLink – designation conditions for HCC carpark designation alteration (HCC 4) are:

The proposed designation conditions for the HCC car park designation alteration are identified as follows:

Condition number	Condition
	No conditions identified.

4.6 Operation and maintenance of RiverLink – regional resource consent conditions for HCC

Condition number	Condition
	Stormwater
COH1	<p>A Stormwater Operation and Maintenance Plan must be submitted to the Council (Manager) for certification 20 working days prior to the commencement of the operation of the stormwater management system. The Stormwater Operation and Maintenance Plan must include:</p> <ul style="list-style-type: none"> a) details of who will hold responsibility for long-term maintenance of the stormwater management system and the organisational structure which will support this process; b) details of the legal access arrangements for ongoing maintenance to stormwater assets; c) a programme for regular maintenance and inspection of the stormwater management system; d) a programme for the collection and disposal of debris and sediment collected by the stormwater management devices or practices; e) a programme for post storm inspection and maintenance; f) a programme for inspection and maintenance of the outfall; g) general inspection checklists for all aspects of the stormwater management system, including visual checks; and h) a programme for inspection and maintenance of vegetation associated with the stormwater management devices. i) The maintenance requirements for swales located in the floodway, including visual inspections for silt deposition and scour, following a flood event; j) Health and safety considerations for undertaking maintenance and environmental considerations for maintenance works including erosion and sediment control and disposal requirements; and k) Record sheets for documentation of inspections and remedial and maintenance works undertaken.
COH2	The Consent Holder must ensure that the stormwater management system is managed in accordance with the certified Stormwater Operation and Maintenance Plan.
COH3	<p>Any alterations to the Stormwater Operation and Maintenance Plan must be submitted to the Manager in writing for certification 20 working days prior to implementation.</p> <p>The Operation and Maintenance Plan must be updated and submitted to the Manager for approval, upon request.</p>

Condition number	Condition
COH4	<p>A written maintenance contract for the on-going maintenance of any proprietary treatment device(s) must be entered into with an appropriate stormwater management system operator, prior to the operation of the proprietary stormwater management device(s). A written maintenance contract must be in place and maintained for the duration of the consent.</p> <p>A signed copy of the contract required must be forwarded to the Manager 20 working days prior to the commencement of the operation of the stormwater management system.</p> <p>A copy of the current maintenance contract must be provided to the Manager upon request throughout the duration of the consent.</p>

4.7 Operation and maintenance of RiverLink – regional resource consent conditions for Waka Kotahi

Condition number	Condition
	Fish Passage
COW1	Fish passage through Tirohanga Intersection Stream (Outlet 38) must be maintained at all times, providing fish passage and in a manner that meets the monitoring and maintenance requirements of Regulation 69 of the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 (NESF), unless otherwise agreed with the Manager.
	Stormwater
COW2	<p>A Stormwater Operation and Maintenance Plan must be submitted to the Council (Manager) for certification 20 working days prior to the commencement of the operation of the stormwater management system. The Stormwater Operation and Maintenance Plan must include:</p> <ul style="list-style-type: none"> a) details of who will hold responsibility for long-term maintenance of the stormwater management system and the organisational structure which will support this process; b) details of the legal access arrangements for ongoing maintenance to stormwater assets; c) a programme for regular maintenance and inspection of the stormwater management system; d) a programme for the collection and disposal of debris and sediment collected by the stormwater management devices or practices; e) a programme for post storm inspection and maintenance; f) a programme for inspection and maintenance of the outfall; g) general inspection checklists for all aspects of the stormwater management system, including visual checks; and h) a programme for inspection and maintenance of vegetation associated with the stormwater management devices.

	<p>i) The maintenance requirements for swales located in the floodway, including visual inspections for silt deposition and scour, following a flood event;</p> <p>j) Health and safety considerations for undertaking maintenance and environmental considerations for maintenance works including erosion and sediment control and disposal requirements; and</p> <p>k) Record sheets for documentation of inspections and remedial and maintenance works undertaken.</p>
COW3	The Consent Holder must ensure that the stormwater management system is managed in accordance with the certified Stormwater Operation and Maintenance Plan.
COW4	<p>Any alterations to the Stormwater Operation and Maintenance Plan must be submitted to the Manager in writing for certification 20 working days prior to implementation.</p> <p>The Operation and Maintenance Plan must be updated and submitted to the Manager, upon request.</p>
COW5	<p>A written maintenance contract for the on-going maintenance of any proprietary treatment device(s) must be entered into with an appropriate stormwater management system operator, prior to the operation of the proprietary stormwater management device(s). A written maintenance contract must be in place and maintained for the duration of the consent.</p> <p>A signed copy of the contract required must be forwarded to the Manager 20 working days prior to the commencement of the operation of the stormwater management system.</p> <p>A copy of the current maintenance contract must be provided to the Manager upon request throughout the duration of the consent.</p>
	Offset Mitigation
COW6	For the duration of the Project following its opening, the Consent Holder must maintain and protect the offset mitigation area(s) identified and established through conditions 82 and 83 (Stream Offset Plan).

4.8 Operation and maintenance of RiverLink – regional resource consent conditions for GWRC

No consent required – relying on “global” maintenance consent WGN130264.

Appendix A

Table 15 of Technical Assessment #10 Noise and Vibration

Table 15 Predicted unmitigated construction noise levels

Advice note: Condition 57C(g) and Appendix A apply to the location identified in Table 15 Predicted unmitigated noise levels even if the street address in Appendix A is no longer current or later changes.

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)						
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Impact driven piling
1	51 Te Memo Road	69	48	38	43	38	38	55
2	62 Victoria Street	80	48	47	44	39	38	57
3	64 Victoria Street	90	45	47	42	42	38	56
4	70 Victoria Street	95	47	45	45	40	38	57
5	72 Victoria Street	85	51	45	44	42	39	59
6	74 Victoria Street	90	58	46	55	43	40	59
7	105-107 Victoria Street	68	47	46	44	40	40	58
8	29 Railway Avenue	79	43	43	33	34	28	44
9	35 Railway Avenue	86	57	40	49	40	40	59
10	44 Railway Avenue	73	47	49	47	41	40	59
11	46 Railway Avenue	84	50	45	47	41	39	61
12	22 Marsden Street	87	63	48	56	44	42	60
13	31 Marsden Street	87	60	44	51	40	39	57
14	39 Marsden Street	97	70	51	55	46	41	61

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)							Impact driven piling
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6		
15	61 Marsden Street	72	66	51	55	48	42	64	
16	63 Marsden Street	75	70	52	52	48	41	62	
17	79 Marsden Street	83	73	60	57	50	41	64	
18	81 Marsden Street	74	63	47	52	40	35	60	
19	83 Marsden Street	74	61	53	61	43	40	67	
20	85 Marsden Street	75	58	67	63	46	43	67	
21	87 Marsden Street	76	62	59	63	44	39	67	
22	93 Marsden Street	74	59	75	64	49	40	65	
23	95 Marsden Street	75	55	86	73	54	43	68	
24	1 Bridge Street	36	36	84	36	44	36	48	
25	39 Bridge Street	95	69	51	56	45	42	63	
26	2 Williams Grove	77	72	51	53	46	42	64	
27	4 Williams Grove	77	70	49	54	42	42	64	
28	11 Williams Grove	71	64	44	50	40	40	63	
29	13 Williams Grove	71	64	45	51	40	39	66	

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)							Impact driven piling
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6		
30	24 Parliament Street	43	42	90	45	50	42	63	
31	15 Pharazyn Street	42	42	96	44	50	42	55	
32	19 Pharazyn Street	43	43	105	46	53	43	62	
33	23 Pharazyn Road	47	42	87	49	58	43	66	
34	27 Pharazyn Street	46	43	80	49	57	41	65	
35	31 Pharazyn Street	45	43	85	47	64	42	64	
36	32 Pharazyn Street	71	54	68	63	54	42	65	
37	34 Pharazyn Street	74	53	83	72	55	44	70	
38	40 Pharazyn Street	71	51	90	72	64	43	68	
39	41 Pharazyn Street	47	42	77	49	60	42	63	
40	43 Pharazyn Street	56	42	75	49	64	41	64	
41	45 Pharazyn Street	46	43	77	48	67	39	63	
42	47 Pharazyn Street	51	43	77	54	69	40	64	
43	49 Pharazyn Street	47	41	84	49	75	40	63	
44	51 Pharazyn Street	59	48	79	63	73	44	67	

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)						
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Impact driven piling
45	53 Pharazyn Street	56	47	81	59	75	43	67
46	55 Pharazyn Street	62	52	83	66	75	43	73
47	57 Pharazyn Street	64	51	87	65	75	43	71
48	57A Pharazyn Street	63	50	82	66	75	41	68
49	59 Pharazyn Street	64	52	88	67	74	43	70
50	61 Pharazyn Street	63	54	88	68	74	45	67
51	63 Pharazyn Street	62	51	86	70	73	44	69
52	65 Pharazyn Street	63	54	94	71	79	43	74
53	69 Pharazyn Street	65	56	102	71	82	45	77
54	71 Pharazyn Street	70	58	104	73	82	44	79
55	7 Ward Street	57	83	46	69	43	40	61
56	1 Market Grove	53	94	46	60	43	40	59
57	2 Market Grove	57	78	47	67	44	40	60
58	4 Market Grove	63	75	47	67	44	40	62
59	71 Woburn Road	51	84	44	62	41	28	43

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)						
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Impact driven piling
60	73 Woburn Road	50	76	45	58	42	42	59
61	2 Queens Drive	53	82	47	65	44	41	57
62	36 High Street	60	92	49	81	46	35	65
63	54 High Street	65	89	52	74	48	44	67
64	78 High Street	54	90	49	69	46	44	61
65	92 High Street	54	80	50	68	46	42	58
66	100 High Street	53	73	50	67	45	42	58
67	101 High Street	57	67	52	77	46	33	53
68	102 High Street	59	71	52	68	48	43	61
69	105 High Street	64	61	56	72	49	41	64
70	115 High Street	60	62	53	72	49	31	53
71	118-128 High Street	61	61	48	93	46	43	65
72	125 High Street	59	54	52	70	48	43	63
73	129 High Street	59	61	52	91	47	41	61
74	137 High Street	58	62	44	90	43	43	58

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)						
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Impact driven piling
75	148 High Street	64	63	51	89	46	43	61
76	151-155 High Street	66	64	51	92	49	40	68
77	157-161 High Street	56	62	49	88	46	45	66
78	167-175 High Street	63	59	51	82	48	46	69
79	177 High Street	70	63	50	87	46	44	66
80	2/191 High Street	59	57	51	87	47	47	69
81	195 High Street	58	59	54	81	50	49	70
82	204 High Street	53	58	53	79	47	45	66
83	210 High Street	55	58	55	80	45	45	71
84	215 High Street	57	62	57	91	47	45	73
85	217 High Street	59	61	59	95	48	45	74
86	288 High Street	54	72	64	52	47	47	71
87	290 High Street	56	73	63	54	47	47	73
88	292 - 296 High Street	58	78	67	55	48	49	75
89	298 High Street	59	80	67	58	48	49	79

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)							Impact driven piling
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6		
90	330 High Street	61	96	72	60	52	54	80	
91	336 High Street	60	90	70	58	48	47	79	
92	337 High Street	56	79	65	48	46	46	65	
93	338 High Street	61	95	70	57	49	54	78	
94	340 High Street	52	81	64	50	50	62	74	
95	365 High Street	61	69	91	61	51	72	76	
96	369 High Street	59	93	68	49	49	70	59	
97	374 High Street	50	95	63	49	49	60	71	
98	403 High Street	56	97	67	46	48	69	67	
99	411 High Street	48	79	56	46	45	66	66	
100	412 High Street	51	98	59	50	50	60	68	
101	417 High Street	48	87	51	43	43	53	64	
102	418 High Street	50	89	57	50	50	60	63	
103	423 High Street	41	76	50	41	39	57	53	
104	424 High Street	52	68	52	52	52	52	66	

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)							Impact driven piling
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6		
105	441-445 High Street	49	67	48	48	48	48	53	
106	455 High Street	46	67	44	42	42	44	58	
107	5 Andrews Avenue	66	67	55	79	50	47	73	
108	21 Andrews Avenue	70	72	56	91	51	46	73	
109	15 Daly Street	81	92	78	87	53	49	93	
110	11 Dudley Street	90	78	55	105	51	43	73	
111	15 Dudley Street	90	73	56	98	51	43	73	
112	27 Dudley Street	57	61	50	95	47	43	68	
113	35 Dudley Street	55	52	50	95	44	43	63	
114	37 Dudley Street	89	71	59	98	51	40	74	
115	47 Dudley Street	89	71	59	103	51	39	75	
116	49 Dudley Street	89	70	60	99	51	38	75	
117	55 Dudley Street	88	70	54	98	51	40	77	
118	65 Dudley Street	88	70	55	97	51	40	76	
119	67 Dudley Street	88	70	55	97	51	40	77	

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)							Impact driven piling
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6		
120	71 Dudley Street	76	68	64	100	51	48	80	
121	9 Margaret Street	59	62	56	86	47	45	68	
122	12 Margaret Street	60	63	60	95	46	40	72	
123	2 Rutherford Street	90	64	74	64	57	74	66	
124	7 Rutherford Street	60	56	74	51	51	74	65	
125	9 Rutherford Street	54	60	90	48	48	91	64	
126	13 Rutherford Street	54	58	84	48	48	85	65	
127	14 Rutherford Street	82	64	86	64	62	86	72	
128	15 Rutherford Street	54	65	89	48	48	93	67	
129	16 Rutherford Street	84	66	81	57	55	80	68	
130	17 Rutherford Street	55	66	90	50	50	93	65	
131	19 Rutherford Street	60	69	92	51	51	93	65	
132	27 Rutherford Street	64	91	83	54	54	84	66	
133	28 Rutherford Street	94	99	74	72	57	89	94	
134	33 Rutherford Street	62	89	80	53	53	86	60	

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)							Impact driven piling
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6		
135	41 Rutherford Street	61	67	112	61	50	69	80	
136	45 Rutherford Street	66	66	101	64	47	66	85	
137	49 Rutherford Street	70	70	102	69	52	63	89	
138	53 Rutherford Street	73	74	94	64	49	54	83	
139	59 Rutherford Street	74	76	95	57	48	50	78	
140	60 Rutherford Street	63	78	63	49	48	46	76	
141	69 Rutherford Street	76	72	62	65	51	49	75	
142	6 Raroa Road	56	67	63	50	50	60	73	
143	2 Pretoria Street	55	99	61	50	50	61	72	
144	6 Pretoria Street	50	78	59	50	50	60	70	
145	8 Pretoria Street	50	72	59	50	50	61	63	
146	2 Osborne Place	49	68	61	48	46	51	70	
147	134 Queens Drive	59	84	69	57	48	51	78	
148	5 Kings Crescent	57	72	66	54	47	49	76	
149	1 Connolly Street	87	68	68	68	62	62	68	

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)						
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Impact driven piling
150	11 Connolly Street	75	54	54	54	54	54	57
151	13 Connolly Street	82	58	58	58	58	58	62
152	2/7 Connolly Street	83	59	59	59	56	56	50
153	2/9 Connolly Street	82	57	57	57	57	57	62
154	17A Connolly Street	79	59	59	59	59	59	62
155	19A Connolly Street	75	60	60	60	60	60	54
156	31B Connolly Street	72	61	61	61	61	61	56
157	39 Mills Street	89	65	65	65	65	65	66
158	2/39B Mills Street	89	67	67	67	67	67	65
159	39A Mills Street	81	63	63	63	63	63	60
160	4/39B Mills Street	81	68	68	68	68	68	59
161	48-50 Mills Street ¹	79	64	64	64	64	64	61
162	54A Mills Street	82	63	63	63	63	63	58
163	54B Mills Street	87	63	63	63	63	63	52
164	1 Gaskill Grove	59	59	61	65	64	47	75

¹ Now numbered 17 and 19 Te Ara o Maraenuku.

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)						
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Impact driven piling
165	2 Gaskill Grove	60	60	62	66	67	52	75
166	3 Gaskill Grove	61	61	63	66	70	52	76
167	4 Gaskill Grove	61	61	64	66	67	50	76
168	5 Gaskill Grove	61	61	65	67	72	49	77
169	4 Jenness Grove	59	59	61	62	60	48	75
170	5 Jenness Grove	61	61	63	69	75	54	77
171	7 Jenness Grove	61	61	63	68	73	55	76
172	8 Jenness Grove	61	61	63	68	73	53	77
173	9 Jenness Grove	61	61	63	68	73	51	75
174	10 Jenness Grove	60	60	61	65	67	48	75
175	3 Harbour View Road	58	58	58	66	74	60	79
176	5 Harbour View Road	59	59	59	66	74	60	79
177	7 Harbour View Road	55	53	53	58	85	57	74
178	14 Harbour View Road	54	54	55	57	79	56	73
179	125 Western Hutt Road	57	59	59	63	79	66	78

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)							Impact driven piling
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6		
180	709 Western Hutt Road	62	49	49	74	74	49	46	
181	760 Western Hutt Road	75	75	75	75	75	75	64	
182	11 Onehuka Road	57	58	58	59	60	62	71	
183	25 Onehuka Road	57	59	59	59	65	63	72	
184	27 Onehuka Road	56	58	58	58	66	64	72	
185	17 Tirohanga Road	63	63	63	63	72	67	70	
186	25 Tirohanga Road	65	65	65	65	65	65	69	
187	29 Tirohanga Road	61	61	61	61	61	61	62	
188	30 Tirohanga Road	73	73	73	73	73	73	65	
189	31 Tirohanga Road	66	66	66	66	67	66	65	
190	33 Tirohanga Road	64	64	64	64	64	64	65	
191	35 Tirohanga Road	63	63	63	63	63	63	63	
192	39 Tirohanga Road	64	64	64	64	64	64	61	
193	1 Pomare Road	74	74	74	74	74	74	61	
194	1A Pomare Road	78	78	78	78	78	78	60	

Receiver No.	Address	Predicted worst case noise level, dB L _{Aeq} (15min)							Impact driven piling
		Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6		
195	2 Pomare Road	80	80	80	80	80	80	56	
196	10 Pomare Road	76	76	76	76	76	76	61	
197	12 Pomare Road	75	75	75	75	75	75	63	
198	23 Pomare Road	73	73	73	73	73	73	63	
199	1 Wairere Road	70	70	70	70	70	70	57	
200	4 - 14 Wairere Road	73	73	73	73	73	73	57	
201	11-23 Wairere Road	73	73	73	73	73	73	58	
202	247-253 Grounsell Crescent	67	67	67	67	67	67	54	
203	250 - 260 Grounsell Crescent	57	57	57	70	70	57	49	
204	264-268 Grounsell Crescent	53	52	52	63	63	52	51	
205	270-282 Grounsell Crescent	56	51	51	63	63	51	49	
206	284 Grounsell Crescent	68	54	54	63	63	54	50	
207	286-288 Grounsell Crescent	69	52	52	61	61	52	47	