

Definitions, abbreviations, acronyms, and terms

Term	Definition
AEE	Assessment of Environmental Effects for the Eastern Hills Reservoir Project
BMP	Bird Management Plan
CEMP	Construction Environmental Management Plan
CMO	Hutt City Council's Compliance Monitoring Officer
CNVMP	Construction Noise and Vibration Management Plan
CTMP	Construction Traffic Management Plan
Commencement of Construction	The time when the Construction Works start
Completion of Construction	Completion of reservoir earthworks, construction of the reservoir, restoration of the reservoir site and access track, and completion of planting in accordance with the LCP (but not including any further planting that may be required during the maintenance and monitoring period under the VMP)
Construction Works	Activities undertaken to construct the Eastern Hills Reservoir, excluding Enabling Works, up to Completion of Construction
dB	Decibel
Enabling Works	Includes the following and similar activities in relation to the Project: <ul style="list-style-type: none"> • Geotechnical investigations and land investigations • Site establishment activities including site yards, site offices, fencing, and formation of site access points • Construction of site access road • Ecological surveys and any necessary relocations • Vegetation protection • Construction and installation of erosion and sediment control measures • Establishment of mitigation measures (such as screening, bunds, noise walls) • The detailed scope of enabling works specified in Section 4 of the Notice of Requirement for a New Designation in relation to the Project dated 26/02/2024.
ESCP	Erosion and Sediment Control Plan
GWRC	Greater Wellington Regional Council, including any officer of Greater Wellington Regional Council
HCC	Hutt City Council in its capacity as territorial authority or regulator
LCP	Landscape Concept Plan
LMP	Lizard Management Plan
Material Change	Material change will include amendments to any base information informing the management plan which has the potential to materially increase adverse effects on a particular receiver, or on the environment. For clarity, changes to personnel, contact schedules and other administrative changes do not constitute a material change.
OMP	Offsetting Management Plan
Outline Plan	An Outline Plan of Works prepared in accordance with section 176A of the Resource Management Act 1991
PMP	Pest Management Plan

Term	Definition
Project	The design, construction, maintenance, and operation of the Eastern Hills Reservoir as in the AEE and these designation conditions
Requiring Authority	Hutt City Council in its capacity as the owner of the Project
Suitably Qualified Person	A person (or persons) who can provide evidence to demonstrate their suitability and competence in the relevant field of expertise and put those skills and knowledge into practice in order to perform a job in an effective and efficient manner to an established standard.
VMP	Vegetation Management Plan
Working day	Has the same meaning as under Section 2 of the Resource Management Act 1991

General Conditions

1. Except as modified by the conditions below, and subject to final design and Outline Plan(s), the Project shall be undertaken in general accordance with the information provided by the Requiring Authority in the Notice of Requirement and supporting documents being:
 - i) The Description of the Project provided in Part B of the AEE Report prepared by Connect Water titled 'Notice of Requirement for a New Designation. Project Name: Eastern Hills Reservoir', dated 26/02/2024; and
 - ii) The Project's Technical Assessment Reports, Appendix A – Appendix Q, of the Notice of Requirement for a New Designation; and
 - iii) The following Notice of Requirement Plans prepared by Connect Water (Drawing Set 3-WW021.02).

NOTE: Where there may be contradiction or inconsistencies between the application and any further information provided by the applicant, the most recent information applies. Where there is conflict between the documents listed above and these designation conditions, these conditions shall prevail.

2. The Project must be undertaken in accordance with any management plans required to be prepared under these conditions.
3. Other than as specified in, and required by, Conditions 1, 42 & 43 (ongoing monitoring and management), all other conditions relate to the Construction Works of the Project only apply to construction activities. After the Completion of Construction, these conditions will no longer apply and can be removed as part of any subsequent District Plan review or change. For the avoidance of doubt, none of these conditions, Conditions 2 to 43 inclusive, prevent or apply to works required for the ongoing operation or maintenance of the Reservoir.
4. As soon as reasonably practicable following the Completion of Construction of the Project, the Requiring Authority shall:
 - a) Review the area designated for the Project
 - b) Identify any areas of designated land that are no longer necessary for the on-going operation or maintenance of the Project or for ongoing mitigation measures
 - c) Give notice to HCC in accordance with section 182 of the RMA seeking the removal of those parts of the designation identified under (b) above
5. The Requiring Authority shall submit to the CMO at least 2 months prior to Commencement of Construction, a detailed programme outlining:
 - a) The proposed staging of the Construction Works
 - b) The anticipated submission dates of the management plans and outline plans required by these conditions
6. The Requiring Authority shall arrange and conduct an on-site meeting including the Project representative and appropriate contractor representative(s) and the CMO at least 10 working days prior to the Commencement of Construction. The following information shall be made available at the meeting:
 - a) Timeframes for key stages of the Construction Works;
 - b) Details of the Project representative(s), including their contact details (phone and email address); and

- c) Contact details of the site contractor and other key contractors.

Note: In the case that any of the invited parties, other than the representative of the Requiring Authority and the contractor, do not attend this meeting, the Requiring Authority will have complied with this condition, provided the CMO is invited 5 days in advance of the on-site meeting occurring.

7. An Outline Plan(s) shall be submitted to HCC, unless a waiver for this requirement is provided in writing by the HCC.

Certification of Management Plans

8. The Construction Works management plans listed in clause (a) shall be submitted to HCC for certification. The certification process shall be confined to confirming that the Management Plan meets the requirements of the relevant management plan conditions(s). The preparation of all management plans required by these conditions shall be undertaken by a Suitably Qualified Person.
 - a) The following plans shall be submitted for certification:
 - I. Construction Environmental Management Plan (**CEMP**);
 - II. Construction Noise and Vibration Management Plan (**CNVMP**);
 - III. Construction Traffic Management Plan (**CTMP**);
 - IV. Landscape Concept Plan (**LCP**);
 - V. Bird Management Plan (**BMP**);
 - VI. Pest Management Plan (**PMP**);
 - VII. Vegetation Management Plan (**VMP**); and
 - VIII. Offset Management Plan (**OMP**).
 - b) If twenty (20) working days have passed since the management plan has been provided to HCC under clause (a) above, and the Requiring Authority has not received a response from HCC, the Management Plan shall be deemed to be certified.
 - c) If the HCC's response is that they are not able to certify the Management Plan, the they shall provide reasons and recommendations for changes to the management plan in writing. The Requiring Authority shall consider any of the reasons and recommendation of HCC and resubmit an amended Management Plan to be certified.
 - d) If the Requiring Authority has not received a response from HCC within ten (10) working days of the date of resubmission under clause (c) above, the amended Management Plan will be deemed to be certified.
 - e) Any certified management plan may be updated or revised to reflect any changes in design, construction methods or management of effects:
 - I. Any material changes are to be submitted to HCC for certification as soon as practicable following identification of the need for an update or revision. If the Requiring Authority has not received a response from HCC within ten (10) working days of submitting the revised information, the management plan will be deemed to be certified. Any material changes may not be implemented until certified by HCC.
 - II. Except for material changes, management plans may be amended to reflect any changes in design, construction methods or management of effects and

submitted to Hutt City Council for information, without the need for recertification.

- f) No Construction Works may commence until all management plans that relate to those Construction Works or relevant stage(s) of works have been certified by the HCC or are deemed certified in the absence of a response from HCC.

Construction Environmental Management

- 9. The Requiring Authority shall not commence Construction Works (or relevant stage of Construction Works, if the works are carried out in stages) until a Construction Environmental Management Plan (**CEMP**) has been certified by HCC, in accordance with condition 8, confirming that the CEMP satisfies the requirements of Condition 10.
- 10. The purpose of the CEMP is to set out the management procedures and construction methods to be undertaken to avoid, remedy or mitigate any adverse effects associated with the Construction Works. To achieve the purpose, the CEMP must include details of:
 - a) Construction methodologies and construction timeframes, including staging;
 - b) Working hours, which should generally be 7:30am to 6:00pm Monday to Saturday except as otherwise provided for under condition 18;
 - c) The roles and responsibilities of staff and contractors;
 - d) Details of the project manager and the Project representative(s), including their contact details (phone and email address);
 - e) The proposed site layouts (including construction yards), locations of refuelling activities and construction lighting;
 - f) Methods for providing for the health and safety of the general public;
 - g) Procedures for incident and complaint management and reporting including details of who can be contacted to report complaints throughout the duration of the Construction Works;
 - h) The complaints register that shall be maintained for the duration of the works detailing complaints received alleging adverse effects from, or related to, the works;
 - i) Procedures for how complaints are to be addressed;
 - j) Details of where machinery operations must be excluded, to ensure minimal disturbance of these areas; and
 - k) Details of where temporary signage shall be installed during construction of the Project, which informs the general public of the works, including alternative access points for accessing the Eastern Hills recreational area.
- 11. The Requiring Authority must implement the certified CEMP (with any amendments) for the duration of the Construction Works.
- 12. The Requiring Authority must ensure that a copy of the certified CEMP, including any amendments made in accordance with the process specified in Condition 8, is kept onsite and this copy is updated within 10 working days of any amendments being certified by, or provided to, the HCC.

Earthworks

- 13. The Requiring Authority must submit an Erosion and Sediment Control Plan (ESCP) to the Hutt City Council for information once it has been certified by the Greater Wellington Regional Council.

14. The Requiring Authority shall stabilise all areas exposed by earthworks, trenching or building work as soon as possible after excavation or, at the latest, within one month of completing earthworks.
15. The Requiring Authority shall ensure all Construction Works, including any earthworks, are carried out in a manner that controls dust travelling beyond site boundaries to the extent that it does not cause a nuisance or hazard.
16. The Requiring Authority shall ensure that vehicles and machinery leaving the site do not deposit earth or other material in or on road reserve, the road surfaces or surrounds. If such spills occur, the Requiring Authority shall clean the road surfaces to their original condition.
17. Prior to the Commencement of Construction Works, a stabilised vehicle crossing shall be installed at the site entrance(s) for the Construction Works and/or suitable wheel wash facilities on site so that earth material from the site is not tracked onto the road.

Construction Noise and Vibration

18. The Requiring Authority shall not commence Construction Works until a Construction Noise and Vibration Management Plan (**CNVMP**) has been certified by HCC, confirming that the CNVMP satisfies the objective established in this condition (condition 18) and the requirements of conditions 19 to 24. Certification shall occur in accordance with the process set out in Condition 8. The objective of the CNVMP is to provide a framework for the development and implementation of the Best Practicable Option for the management of Construction Works noise and vibration effects, and to set out how compliance with the construction noise and vibration standards set out in Conditions 23 and 24 below will be achieved as far as practicable.
19. The purpose of the CNVMP is to provide methods to manage noise and vibration appropriately for a variety of circumstances within the project site by outlining the measures, procedures and standards for mitigating the effects of noise and vibration during construction of the Project. The CNVMP must include, as a minimum:
 - a) A description of the likely construction noise and vibration emissions anticipated as a result of construction activities;
 - b) A description of the construction work, anticipated equipment and processes and their scheduled durations;
 - c) A description of noise or vibration suppression devices to be used on equipment or processes;
 - d) The normal hours of operation being 7:00 am till 6:00pm Monday to Saturday;
 - e) The construction noise and vibration criteria that apply for the Project, which must be consistent with those standards specified in NZS 6803:1999 'Acoustics – Construction Noise' (Condition 23) and BS 5228-2:2009 Code of practice for noise and vibration control on construction and open sites – Part 2: Vibration (Condition 24);

- f) Identification of affected houses and other Noise Sensitive Receptors where noise and vibration criteria apply, including a list of Noise Sensitive Receivers (as defined in NZS 6803:1999 'Acoustics – Construction Noise');
- g) Requirements for monitoring road surface condition to minimise noise and vibration from trucks travelling over potholes and uneven surfaces;
- h) Methods and frequency for monitoring and reporting on construction noise and vibration to HCC;
- i) Procedures for maintaining contact with stakeholders, notifying of proposed construction activities, and handling of noise and vibration complains (consistent with the complaints procedures and complaints register within the CEMP);
- j) Where compliance with the criteria in Conditions 23 and 24 may not be achieved, a description of alternative mitigation strategies that will be used;
- k) The requirement for pre-construction building inspections at locations close to activities generating significant vibration, prior to and after completion of construction and processes for repair of any damage caused by the Work;
- l) Construction equipment operator training procedures and expected construction site behaviours; and
- m) Contact numbers for key construction staff, and staff responsible for noise assessment and the CMO(s).

20. Where Construction Works require night-time works, the CNVMP must address the following matters:

- a) The arrangement for night works, including:
 - I. Enhanced communication procedures with residents on Summit Road identified as PPFs in the Noise and Vibration Assessment submitted with the application;
 - II. Planning night works so that the noisiest work is scheduled earlier in the night to limit sleep disturbance and the use of equipment with lower noise levels or activities where noise mitigation can be implemented (e.g., temporary barriers);
 - III. Scheduling in respite periods (e.g., a maximum of 3 consecutive nights of works).
- b) Controls to minimise the occurrence of events generating intermittent sounds such as reverse beepers, shouting, or whistling.

21. The Requiring Authority must implement the certified CNVMP (with any amendments) for the duration of the Construction Works.

22. The Requiring Authority must ensure that a copy of the certified CNVMP, including any amendments, is kept onsite and this copy is updated within 10 working days of any amendments being made.

23. Construction noise shall be measured and assessed in accordance with NZS 6803:1999 'Acoustics – Construction Noise'. The construction noise shall comply with the following criteria as far as practicable:

Day of week	Time	dB LAeq (15min)	dB LAfmax
Noise Criteria at Residential Neighbours			
Weekdays	0630 – 0730	55	75

Day of week	Time	dB L _{Aeq} (15min)	dB L _{AFmax}
Noise Criteria at Residential Neighbours			
	0730 – 1800	70	85
	1800 – 2000	65	80
	2000 – 0630	45	75
Saturdays	0630 – 0730	45	75
	0730 – 1800	70	85
	1800 – 2000	45	75
	2000 – 0630	45	75
Sundays and public holidays	0630 – 0730	45	75
	0730 – 1800	55	85
	1800 – 2000	45	75
	2000 – 0630	45	75

24. Vibration from the Construction Works must comply with the following criteria as far as practicable:

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

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

Advice Note: For vibration measurements, reference should be made to BS 5228-2 and DIN 4150-3. For additional guidance on measurement techniques, reference can be made to BS 6472-1 in relation to human annoyance and ISO 4866:2010 for building damage.

Construction Traffic

25. The Requiring Authority shall not commence Construction Works until a Construction Traffic Management Plan (**CTMP**) has been certified by Hutt City Council confirming that the CTMP satisfies the requirements of Condition 26, 27, and 28. Certification shall occur in accordance with the process set out in Condition 8. The objective of the CTMP is to avoid, remedy or mitigate, as far as practicable, adverse construction traffic effects of the Project on property access, traffic safety and efficiency during construction.
26. The CTMP must include, as a minimum:
- Measures to minimise the disruption to users of local travel routes;
 - Temporary traffic management measures required to manage impacts on road users during the proposed construction works including signage and traffic control;
 - Measures to maintain existing vehicle access to adjacent properties;
 - Any proposed temporary changes in speed limits;

- e) Measures to control HCV so that two HCVs are not travelling in opposite directions along Summit Road or Tilbury Street at any one time including detailing appropriate waiting locations;
 - f) Provision for safe and efficient access of vehicles to and from the construction site;
 - g) Details of where parking will be temporarily removed; and
 - h) Details as to where footpaths will be temporarily closed and for how long.
27. The Requiring Authority shall carry out a preconstruction survey of Summit Road, Tilbury Street and Balgownie Grove prior to the commencement of Construction Works. Prior to the Construction Works commencing, the preconstruction survey shall be supplied to the Road Asset Manager.
28. Following completion of the Construction Works, the Requiring Authority shall complete a postconstruction survey of Summit Road and Tilbury Street. The Requiring Authority shall contribute a fair and reasonable cost, as determined by a Suitably Qualified Person, towards repair and maintenance of Summit Road and Tilbury Street should damage to the road be attributable to the Construction Works.

Landscape, Visual Amenity and Natural Character

29. The Requiring Authority shall not commence Construction Works until a Landscape Concept Plan (**LCP**) developed in partnership with Taranaki Whānui ki Te Upoko o Te Ika has been certified by HCC, confirming that the LCP satisfies the requirements of Condition 30. Certification shall occur in accordance with the process set out in Condition 8. The objective of the LCP is to avoid, remedy or mitigate adverse landscape visual effects associated with the construction and operation of the Project on nearby receivers.
30. The LCP must, as a minimum, include:
- a) Ensure that the Project's landscape treatments are context-sensitive in terms of acknowledging Taranaki Whānui ki Te Upoko o Te Ika values, land use, sense of place and the viewing audience;
 - b) Details of the final earthworks levels, including confirming that they will integrate with adjacent topography, and provide appropriate revegetation conditions;
 - c) Details of the replaced pathways through the site including the location of replacement signage;
 - d) Appropriate design treatment(s) to support safety and wayfinding;
 - e) Consideration of CPTED (Crime Prevention Through Environmental Design) principles in relation to the project;
 - f) Identification of vegetation to be retained, including retention of as many as practicable significant trees and areas of regenerating indigenous vegetation;
 - g) Protection measures for vegetation to be retained;
 - h) Identification of proposed planting including plant species, plant/grass mixes, spacing/densities, sites (at time of planting) and layout and planting methods;
 - i) Details of the proposed planting that is to occur within the riparian margin of the Waiwhetū Stream;
 - j) Planting programme detailing the staging of planting in relation to the construction programme which shall, as far as practicable, require planting to occur within the first planting seasons following completion of the Construction Works;

- k) Details of how the input of a suitably qualified ecologist has provided input so that ecological benefits are attained via the proposed planting; and
- l) The proposed maintenance of plantings, including the replacement of unsuccessful plantings.

Ecological Management Plans

- 31. At least 10 days prior to any works on land identified as lizard habitat, the Requiring Authority shall provide a copy of the Lizard Management Plan and a copy of the permit obtained under Wildlife Act 1953, as certified by the Department of Conservation, to the CMO for their records.
The Requiring Authority shall undertake the works in accordance with the Lizard Management Plan and any conditions of the permit obtained under the Wildlife Act 1953.
- 32. The Requiring Authority shall not commence Construction Works until a Bird Management Plan (**BMP**) has been certified by Hutt City Council confirming that the **BMP** satisfies the requirement of Condition 33. The objective of the **BMP** is to avoid, remedy or mitigate the potential adverse effects of the Project on birds.
- 33. The **BMP** must include, as a minimum:
 - a) The Zone of Influence for all species on site;
 - b) The nesting and fledging season for all species on site;
 - c) Methodologies to determine if active nests are present prior to vegetation removal occurring and construction activities commencing that would disturb species on site; and
 - d) The management actions that should be implemented should active nests be discovered during checks (i.e. exclusion zones).
- 34. The Requiring Authority shall not commence Construction Works until a Pest Management Plan (**PMP**) has been certified by Hutt City Council confirming that the **PMP** satisfies the requirements of Condition 35. The objective of the **PMP** is to remediate and offset potential adverse effects of the Project on indigenous vegetation appropriate to the site and impacts over an area of 18ha. Pest Management shall be undertaken by, or on behalf of, the Requiring Authority for a period of 10 years after the final indigenous planting has been completed, or until such time as technological advances mean that pest control is no longer necessary.
- 35. The **PMP** must include, as a minimum;
 - a) The species being targeted by pest management;
 - b) Pest management methods;
 - c) Any pest management required to occur at least one month before works commence;
 - d) Trap or bait station densities;
 - e) Detail the information to be supplied as part of annual reporting to Hutt City Council; and
 - f) The maintenance duration.

36. The Requiring Authority shall not commence Construction Works until a Vegetation Management Plan (**VMP**) has been certified by Hutt City Council confirming that the **VMP** satisfies the requirements of Condition 37. The objective of the **VMP** is to avoid, remedy or mitigate the potential adverse effects of the Project on indigenous vegetation.
37. The **VMP** must, as a minimum:
- a) Include methods to protect newly established plants;
 - b) Detail a suitable annual monitoring and maintenance schedule for 5 years following completion of the Project to ensure canopy closure and plant survivorship occurs;
 - c) Identify those areas of indigenous vegetation lost during site clearance activities;
 - d) Identify those areas on site where remediation of indigenous vegetation will occur; and
 - e) Identify where riparian planting is proposed along the banks of the Waiwhetū stream.
38. The Requiring Authority shall not commence Construction Works until an Offsetting Management Plan (**OMP**) has been certified by Hutt City Council confirming that the **OMP** satisfies the requirements of Condition 39. The objective of the **OMP** is to offset the potential adverse effects of the Project on the loss of indigenous vegetation.
39. The **OMP** must, as a minimum:
- a) Confirm the volume of indigenous vegetation removed as part of the Construction Works that requires offsetting;
 - b) Confirm the volume of vegetation to be planted to offset the vegetation lost in clause (a) above;
 - c) Identify through mapping where the offset planting will occur;
 - d) Confirm that a biodiversity net gain will be achieved by the proposed offset planting;
 - e) Propose maintenance measures to maintain the outcome required by Condition 38;
 - f) Detail the monitoring required consistent with the monitoring required in the **VMP**; and
 - g) Detail the information to be supplied as part of annual reporting to Hutt City Council.
40. An outline plan(s) must be prepared and submitted to Hutt City Council in accordance with section 176A of the RMA for enabling works that are not otherwise a permitted activity pursuant to the Hutt City District Plan (unless the requirement is waived by Hutt City Council).
- In addition to the matters required by section 176A(3) of the RMA, the outline plan(s) (Enabling Works) must:
- a) Detail the purpose for undertaking the Enabling Works activity prior to the Construction Works;
 - b) Detail the mitigation required, and an appropriate timescale for implementing that mitigation, if an enabling work occurs and the project does not commence; and
 - c) Address the requirements of ecological management plans if ecological surveys and relocations are required.
- The outline plan(s) (Enabling Works) is not required to include:
- d) The management plans required by Conditions 8(a).

Accidental Discovery

41. At least 15 Working Days prior to Construction Works commencing, the Requiring Authority shall prepare an accidental discovery protocol and provide a copy to HCC for information. The protocol shall be implemented in the event of the accidental discovery of cultural or archaeological artefacts or features during construction of the Project. The protocol shall include, but not be limited to:
- a) Identification of parties to be notified in the event of an accidental discovery, who shall include, but need not be limited to, Taranaki Whānui ki Te Upoko o Te Ika, Te Rūnanga o Toa Rangatira, Heritage New Zealand Pouhere Taonga, HCC, and if koiwi are discovered, the New Zealand Police.
 - b) Setting out procedures to be undertaken in the event of an accidental discovery, which shall include the cessation of Construction Works in the vicinity of the discovery until authorised to proceed.
 - c) Training procedures for all contractors regarding the possible presence of cultural or archaeological sites or material, what these sites or material may look like, and the relevant procedures if any sites or material are discovered.

Ongoing Monitoring and Management

42. Notwithstanding Condition 8 and 43, monitoring and management measures required by the following management plans must remain in place for 5 years once Construction Works are complete:
- a) Condition 29, **LCP**;
 - b) Condition 31, **LMP**;
 - c) Condition 36, **VMP**.
43. Notwithstanding Condition 8 and 42, monitoring and management measures required by the following management plans must remain in place for 10 years once Construction Works are complete:
- a) Condition 34, **PMP**; and
 - b) Condition 38, **OMP**.