Takitimu North Link Stage 2 – Proposed Resource Consent Conditions (December 2025)

Resource Consent RM24-0466

The following resource consents authorise the Consent Holder to undertake the construction, operation and maintenance of the Project and associated activities:

1.1 RM25-0466-LC.01 Earthworks:

(a) Land use consents under the RNRP (s9 RMA):

1. Land use (LM R4 – Rule 1C) Earthworks, overburden disposal, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

2. Land use (LM R10 – Rule 2C) Vegetation clearance, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

(b) Resource consent for the use of beds of rivers and land use consents under the RNRP (s13 and s9 RMA):

1. Land use (WL R9 – Rule 85) Wetland modification and/or destruction, with an expiry date in 35 years, and a lapse date in 20 years (after the date of commencement of the Consent).

(c) Discharge permits under the RNRP (s15 RMA):

1. Discharge (AIR – Rule R16) Discharging contaminants to air, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

2. Discharge (DW R8 – Rule 37) Discharging temporary dust suppressant chemicals during earthworks, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

(d) Resource consents under the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 (Clause 45):

1. Clause 45(1) Vegetation clearance within, or within a 10m setback from, a Natural Wetland for the purpose of constructing specified infrastructure, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

2. Clause 45(2) Earthworks or land disturbance within, or within a 10m setback from, a Natural Wetland for the purpose of constructing specified infrastructure, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

3. Clause 45(3) Earthworks or land disturbance outside 10 m, but within a 100m setback from, a Natural Wetland for the purpose of constructing specified infrastructure that is likely to result in complete or partial drainage of all or part of the Natural Wetland, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

1.2 RM25-0466-LC.02 Drilling:

(a) Resource consent for the use of beds of rivers under the RNRP (s13 RMA):

1. Land Use (BW R36 – Rule 71) Drilling within the bed of a Watercourse (piling), with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

(b) Water permit under the RNRP (s14 RMA):

1. Land use (WQ – Rule 40A) Drilling on land that may intercept water (piling), with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

1.3 RM25-0466-BC.01 Structures:

(a) Resource consents for the use of beds of rivers under the RNRP (s13 RMA):

1. Land use (BW R36 – Rule 71) Culvert installation, discharge structure Installation, erecting structures over the bed of a Watercourse, with an expiry date in 35 years, and a lapse date in 20 years (after the date of commencement of the Consent).

2. Diversion (WQ R21) Water damming or diversion, with an expiry date in 35 years, and a lapse date in 20 years (after the date of commencement of the Consent).

(b) Resource consents under the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 (Clauses 45, 47 and 71):

1. Construction of specified infrastructure (Clause 45(4)) Taking, use, damming, diversion, or discharge of water within, or within a 100m setback from, a Natural Wetland for the purpose of constructing specified infrastructure, with an expiry date in 35 years, and a lapse date in 20 years (after the date of commencement of the Consent).

2. Maintenance / operation of specified infrastructure (Clause 47(3)) Taking, use, damming, diversion of water within or within a 100 metre setback from a Natural Wetland, with an expiry date in 35 years, and a lapse date in 20 years (after the date of commencement of the Consent).

3. Culverts (Clause 71) The placement, use, alteration, extension, or reconstruction of a culvert in, on, over, or under the bed of a river, with an expiry date in 35 years, and a lapse date in 20 years (after the date of commencement of the Consent).

1.4 RM25-0466-WT.01 Permanent Groundwater Diversion:

(a) Water permit under the RNRP (s14 RMA):

1. Diversion (WQ R21 – Rule 48) Groundwater damming or diversion, with an expiry date in 35 years, and a lapse date in 20 years (after the date of commencement of the Consent).

(b) Resource consents under the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 (Clauses 45 and 47):

1. Construction of specified infrastructure (Clause 45(4)) Taking, use, damming, diversion, or discharge of water within, or within a 100m setback from, a Natural Wetland for the purpose of constructing specified infrastructure, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

2. Maintenance or operation of specified infrastructure (Clause 47(3)) Taking, use, damming or diversion of water within or within a 100m setback from a Natural Wetland for the purpose of maintaining or operating specified infrastructure, with an expiry date in 35 years, and a lapse date in 20 years (after the date of commencement of the Consent).

1.5 RM25-0466-DC.02 Contaminated Land:

(a) Land use and discharge permits under the RNRP (s15 RMA):

1. Land use (DW R25 – Rule 35) Contaminated land disturbance and remediation, and associated discharges of contaminants to land or to land that may enter water, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

1.6 RM25-0466-DC.01 Temporary Discharges:

(a) Discharge permits under the RNRP (s15 RMA):

1. Discharge (DW R8 – Rule 37) Discharging temporary contaminants to land, discharging temporary stormwater to water, discharge of chemical flocculants during earthworks, discharge of dewatering fluid, discharge of cement to groundwater during piling, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

(b) Resource consent under the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 (Clause 45):

1. Construction of specified infrastructure (Clause 45(5)) Discharge of water within, or within a 100m setback from, a Natural Wetland for the purpose of constructing specified infrastructure, and there is a hydrological connection, the discharge will enter the Natural Wetland and will or is likely to change the water level range or hydrological function of the Natural Wetland, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

1.7 RM25-0466-DC.03 Permanent Stormwater:

(a) Discharge permits under the RNRP (s15 RMA):

1. Discharge (DW R8 – Rule 37) Discharging stormwater to water or to land that may enter water, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

(b) Resource consents under the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 (Clause 47):

1. Maintenance or operation of specified infrastructure (Clause 47(3A) The discharge of water to within or within a 100m setback from a Natural Wetland for the purpose of maintaining or operating specified infrastructure, with an expiry date in 35 years, and a lapse date in 20 years (after the date of commencement of the Consent).

1.8 RM25-0466-WT.02 Temporary Dewatering:

(a) Water permits under the RNRP (s14 RMA):

1. Groundwater Take (WQ – Rule 43) Temporary take and use of groundwater for dewatering, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

(b) Resource consents under the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 (Clause 45):

1. Construction of specified infrastructure (Clause 45(4)) Taking and use of water within, or within a 100m setback from, a Natural Wetland for the purpose of constructing specified infrastructure, with an expiry date in 20 years, and a lapse date in 20 years (after the date of commencement of the Consent).

1.9 Pursuant to section 123 of the RMA and Schedule 5, clause 26 of the FTAA, the lapse and expiry dates for the various Consents are as set out in Conditions 1.1-1.8 unless they have been given effect to, surrendered or been cancelled at an earlier date.

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2 Location

2.1 The activities authorised by the Consents shall occur from near Loop Road (map reference: 1870005mN, 5823384mE NZTM2000) to the east of the Waipapa Stream (map reference: 1864989mN, 5827810mE NZTM2000), on land designated by the New Zealand Transport Agency under section 171 of the RMA for the construction, operation and maintenance of a State highway.

3 Pre-construction conditions – notification of works

3.1 At least five Working Days prior to the start of Construction Works, an on-site preconstruction meeting shall be held. The Project Representative(s) shall invite appropriate representative(s) from the contractor, BOPRC, Pirirākau and Ngāti Taka to attend the meeting.

(a) The meeting shall be located on the Project site unless otherwise agreed;

(b) The following information shall be made available at the pre-construction meeting:

1. Conditions of the Consents;
2. Details for the Project Representative(s), including their contact details (phone and email address);
3. Timeframes for planned key stages of Construction Works; and
4. Contact details of the site contractor and other key contractors.

4 Review of consent conditions

4.1 BOPRC may serve notice on the Consent Holder under section 128(1) of the RMA of its intention to review the conditions of these Consents at any time within six months of the first, second, third and fourth anniversaries of the date of commencement of Construction Works, and thereafter five yearly. The purpose of such a review is to deal with any adverse effect on the environment which may result from the consented activity and which it is appropriate to deal with at a later stage.

5 Management Plans

5.1 The Consent Holder shall prepare, submit to BOPRC and implement the Management Plans (as defined in Appendix 1), in accordance with the decision pathway, timeframe and duration as specified in the relevant conditions of the Consents. If BOPRC advises (within the relevant timeframe) that a Management Plan that has been provided to the BOPRC for certification is not suitable to certify and provides reasons for this, the Consent Holder shall re-submit the Management Plan to BOPRC for certification in accordance with the requirements as specified in the relevant condition addressing that Management Plan.

5.2 Conditions 5.3 – 7.3 apply to all plans defined as a ‘Management Plan’ in Appendix 1 (unless stated otherwise).

5.3 The preparation of all Management Plans shall be undertaken by a SQEP (unless stated otherwise).

5.4 The Consent Holder may prepare Management Plans in parts to address specific activities or to reflect the staged implementation of Project Works.

5.5 The Consent Holder may update a Management Plan by submitting the amendment in writing to BOPRC for certification or for information in accordance with the requirements as specified in the relevant condition addressing that Management Plan.

5.6 The Consent Holder shall ensure that Management Plans, including any amendments, are accessible on-site and updated within 10 Working Days of any amendments being certified by BOPRC or provided to BOPRC for information.

5.7 The Consent Holder shall provide drafts of the Management Plans (as defined in Appendix 1) to Pirirākau and Ngāti Taka before the Management Plan is to be provided to BOPRC in accordance with the corresponding timeframe requirement in the relevant Management Plan condition and shall provide at least 10 Working Days for their comments. The Consent Holder shall consider any written

feedback received from Pirirākau and Ngāti Taka and incorporate suggestions from the written feedback as the Consent Holder considers appropriate. The relevant Management Plan shall include a summary of written feedback received from Pirirākau and Ngāti Taka, and outline how feedback has been incorporated into the Management Plan and, if not, the reasons for that.

6 Deemed Certification of Management Plans

6.1 The Consent Holder shall not commence any Project Works (Construction Works, or Enabling Works, as applicable to the relevant Management Plan) within an area to which Management Plan condition(s) apply until the required Management Plan has been certified or otherwise provided to BOPRC for information, in accordance with the relevant condition.

6.2 If the applicable Management Plan (or amendment) required under these conditions has been submitted to BOPRC for certification in accordance with the relevant condition, and the number of Working Days specified in the condition for submission of the Management Plan to Council has passed, and BOPRC has not certified the Management Plan (or amendment), or advised that the Management Plan (or amendment) is not suitable to certify, the Management Plan will be deemed to have been certified and the Consent Holder may commence Project Works in accordance with the applicable Management Plan (or amendment) as submitted.

7 Management Plan(s) for Enabling Works

7.1 Where a Management Plan is required to be prepared before the start of Project Works by a condition of the Consents, the Consent Holder may prepare an area or activity-specific Enabling Works version of that Management Plan(s) to authorise the Enabling Works covered by that Management Plan condition(s). A subsequent Management Plan will need to be prepared before the start of the remaining Project Works subject to those Management Plan condition(s).

7.2 Any Enabling Works version of a Management Plan shall be prepared in general accordance with the requirements of the applicable Management Plan condition(s), with the scope modified to be commensurate with the nature, scale and effects of the proposed Enabling Works and include an explanation of how it will be incorporated into any subsequent Management Plan(s).

7.3 At least 20 Working Days before the start of the relevant Enabling Works, the Enabling Works version of that Management Plan shall be provided to BOPRC for information, or for certification that it complies with the relevant conditions.

8 Use of Construction Equipment, Machinery and Other Plant

8.1 No fuel storage or machinery refuelling shall occur where fuel could enter a Waterbody in the event of a spillage.

8.2 The Consent Holder shall take all practicable measures to prevent fuels, lubricants, hazardous and/or dangerous materials, concrete or cement based substances from entering any Waterbody or surface water.

9 Erosion and Sediment Control Plan

9.1 The Consent Holder shall prepare an **Erosion and Sediment Control Plan (ESCP)**. The purpose of the ESCP is to:

(a) Identify the ESC measures that will be implemented to minimise sediment discharge from the Project Works; and

(b) Minimise the impact of sediment discharge on Watercourses and Natural Wetlands.

9.2 The ESCP shall include:

(a) Details of all principles, procedures and practices that will be implemented to minimise the potential for sediment discharge;

(b) Maintenance, monitoring (including frequency) and reporting requirements for ESC measures;

(c) Methodologies to monitor and quantify water quality subsequent to discharges of contaminants to water and stormwater to surface water;

(d) Management responses that will be undertaken in response to discharges of contaminants to water and stormwater to surface water that result in adverse sediment effects on water quality;

(e) Protocols for construction vehicles, entering and exiting the site including to ensure, as far as practicable, that there is no tracking of soil or sediments off-site.

(f) Identification and contact details of the personnel responsible for the operation and maintenance of all key ESC devices. These personnel shall be managed by a SQEP, and each shall have clearly defined roles and responsibilities to monitor compliance with ESC consent conditions. These personnel shall be available to meet with BOPRC monitoring personnel on a weekly basis, or as otherwise agreed in writing with BOPRC, to review any ESC issues.

(g) Procedures to manage stockpiled material so that stockpiles do not result in surface erosion or sedimentation damage to the stockpile site. The procedures shall include a requirement for stockpiled material that is to be stored for longer than 90 days to be located on a suitable site where it cannot be moved by stormwater and is Stabilised.

(h) Procedures to ensure that vegetation, slash and other debris are not stockpiled in a floodplain (within three vertical metres of the top of streambank or within 30 horizontal metres of the top of streambanks) or within 30 metres of streams where no floodplain exists.

9.3 At least 20 Working Days before the start of Construction Works, the ESCP shall be submitted to BOPRC for certification that the ESCP satisfies the requirements of Conditions 9.1 and 9.2.

9.4 The Consent Holder shall implement the ESCP for the duration of Construction Works.

9.5 The ESCP shall be implemented in accordance with the BOPRC Guideline No. 2010/01 - "*Erosion and Sediment Control Guidelines for Land Disturbing Activities*".

10 Implementation of Erosion and Sediment Control Devices and other Erosion and Sediment Control measures

10.1 All ESC devices shall be installed prior to the commencement of each Stage of Work (including Enabling Works, where a SSESCP has been prepared under Condition 12.1).

10.2 All ESC devices shall be designed and constructed in accordance with the ESCP, and relevant SSESCP (if applicable).

10.3 The Consent Holder shall ensure that all clean water run-off from Stabilised surfaces including catchment areas above and around the site are diverted away from earthworks areas via a Stabilised diversion system where practicable.

10.4 The Consent Holder shall ensure that all ESC measures and devices are appropriately maintained and remain in place until such time as the area managed by the respective ESC measure is fully Stabilised.

10.5 The Consent Holder shall ensure that any necessary maintenance of ESCs identified by inspection under Condition 11.2, or by BOPRC is completed as soon as is practicable.

10.6 The Consent Holder shall ensure that all exposed areas of earth resulting from Project Works authorised by these Consents are Stabilised against erosion as soon as practicable following the completion of each Stage of Work.

10.7 The Consent Holder shall ensure, as far as practicable, that all weather machinery access is maintained to ESC devices.

10.8 Within 30 Working Days of the installation of any sediment retention pond(s) and/or decanting earth bund(s) the Consent Holder shall submit to BOPRC the following:

(a) Written certification from a SQEP that the sediment retention device(s) have been installed as per the BOPRC '*Erosion and Sediment Control Guidelines for Land Disturbing Activities Guideline 2010/01*'; and

(b) Detailed as-built plans of the sediment retention device(s) and outlet(s).

10.9 The Consent Holder shall ensure that any imported fill is classified as 'Clean fill'.

11 Monitoring and Reporting for Erosion and Sediment Control Devices

11.1 The Consent Holder shall maintain a record of the date, time and details of any inspections and maintenance events, and remedial action taken on the ESC structures authorised by this Consent.

11.2 The Consent Holder shall ensure that ESC devices are inspected:

(a) At least weekly for the duration of this Consent; and

(b) If practicable and safe to do so, within 12 hours of each Trigger Event which is likely to impair the function or performance of the ESC devices.

11.3 The Consent Holder shall forward a copy of records required by Conditions 11.1 and 11.2 to BOPRC upon request.

12 Site Specific Erosion and Sediment Control Plan

12.1 Before starting any soil disturbing activities or works in a Watercourse, in any given area of the Designation Boundary (which could be the whole Designation), the Consent Holder shall prepare a Site Specific Erosion and Sediment Control Plan (**SSESCP**) for the works in that area. The purpose of the SSESCP is to set out measures to be implemented to manage and reduce, as far as practicable:

(a) Erosion and the discharge of sediment beyond the Designation Boundary; and

(b) Adverse effects on streams, including minimising the potential for sediment runoff and discharges to water from Construction Works.

12.2 SSESCPs shall include:

(a) Specific ESC measures (including location, dimensions, capacity);

(b) Supporting calculations and design drawings;

(c) Where relevant, locations where in-stream Construction Works are to be undertaken;

(d) Drawings indicating catchment boundaries and contour information;

(e) Drawings indicating the location(s) of Stabilised entranceway(s);

(f) Locations for stockpiled material;

(g) Descriptions and drawings confirming the location, staging and sequencing of works for that specific SSESCP, including installation of ESC measures and Stabilisation of disturbed areas; and

(h) Construction methodologies (including timing and duration) for vegetation removal, bridges, culverts, streamworks within the area to which the SSESCP applies.

12.3 At least 10 Working Days before the start of soil disturbance in a relevant Project Works area, the SSESCP shall be submitted to BOPRC for certification that the SSESCP satisfies the requirements of Conditions 12.1 and 12.2.

12.4 The Consent Holder shall implement the SSESCP for the duration of soil disturbing activities in the relevant Project Works area.

13 Construction Management Plan

13.1 The Consent Holder shall prepare a **Construction Management Plan (CMP)**. The purpose of the CMP is to provide information relating to construction management, and to manage certain construction activities and their effects.

13.2 The CMP shall include:

(a) The roles, responsibilities and contact details of key staff and contractors, including the Project Manager and the Project Representative(s).

(b) A description of the training and education programme that will be implemented to ensure compliance with conditions;

(c) Location and details of construction site infrastructure including site offices, site amenities, contractors' yard access, equipment unloading and storage areas, contractor car parking, security and construction lighting;

(d) Measures to delineate site boundaries, maintain site security, prevent unauthorised access, ensure the safe and practical operation of adjacent sites;

(e) Proposed methods and measures to avoid, where practicable, and otherwise manage adverse effects on public utility infrastructure;

(f) How provision is to be made for a cultural induction programme of contractor's staff and subcontractors by Pirirākau and Ngāti Taka. The frequency and content of these inductions are to be agreed between the Consent Holder and Pirirākau and Ngāti Taka;

(g) How provision is to be made for karakia from Pirirākau and Ngāti Taka to occur at key Project milestones including prior to Construction Works;

(h) Methods for providing for the health and safety of the general public;

(i) Details of emergency contacts who have authority to authorise immediate response actions;

(j) Methods for recording and responding to queries and complaints;

(k) The anticipated construction timeframes, including information on the likely date for start of Construction Works;

(l) The proposed hours of Construction Works;

(m) Methods to communicate key Construction Works milestones and proposed hours of construction with owners and occupiers of properties and stakeholders who will potentially be affected by the Project (including organisations, community facilities, businesses and directly affected landowners and occupiers);

(n) The proposed staging and sequence of the Construction Works and how the CMP will be updated if the staging and sequencing changes; and

(o) Maintenance, monitoring and reporting procedures.

13.3 At least 40 Working Days before the start of Construction Works, the CMP shall be submitted to BOPRC for certification that the CMP satisfies the requirements of Condition 13.2.

13.4 The Consent Holder shall implement the CMP for the duration of Construction Works.

14 Biosecurity Management Plan

14.1 The Consent Holder shall prepare a **Biosecurity Management Plan (BMP)**. The purpose of the BMP is to manage the risk of spread or introduction of weeds, diseases, pest plants and invasive species within the Designation Boundary.

(a) The BMP shall include:

1. Disease management protocols including to manage the risk of spreading kauri die-back disease and myrtle rust;

2. Pest plant management protocols to prevent the introduction or spread of pest plants;

3. Management protocols to prevent the spread of invasive freshwater and marine species (including protocols for machinery and stand down periods); and

4. Measures to ensure compliance with the Bionet A16 (revised 2020) "Keep it clean" guidelines, as far as practicable.

14.2 At least 20 Working Days before the start of Project Works, the BMP shall be submitted to BOPRC for certification that the BMP satisfies the requirements of Condition 14.1.

14.3 The Consent Holder shall implement the BMP for the duration of Project Works.

15 Ecological Management Plan

15.1 The Consent Holder shall prepare an **Ecological Management Plan (EMP)**. The purpose of the EMP is to set out the specific management procedures, monitoring, and measures to avoid, minimise, remedy, offset and compensate for impacts from Project Works on ecological values, including by achieving the standards in Conditions 28.1 - 28.5 and 30.3 – 30.7.

(a) The EMP shall:

1. Detail proposed timeframes for riparian planting and restoration works.
2. Detail the indigenous species to be planted in each locality in order to comply with Conditions 28.1 and 28.4.
3. Provide opportunities for lizard habitat creation.
4. Specify the level of detail to be contained in the monitoring and maintenance reports prepared under Condition 28.5.
5. For planting required as a result of permanent stream diversion, require the planting to be completed within 12 months of the diversion.
6. Include a vegetation delineation and clearance protocol to be implemented during Construction Works.
7. Require, on completion of all planting required under the EMP, the Consent Holder to provide BOPRC with a statement, signed by a SQEP, that the planting and restoration works have been undertaken in accordance with the certified EMP.
8. Include an annual planting monitoring protocol required to comply with Condition 28.4.
9. Include an accidental discovery and management protocol for threatened or at-risk species not otherwise identified and managed within subplans to the EMP in the event they are discovered during Project Works.

(b) The EMP shall include the following subplans:

1. Marine Monitoring Plan;
2. Wetland Management Plan;
3. Aquatic Fauna Management and Monitoring Plan;
4. Avifauna Management Plan;
5. Stream Management and Monitoring Plan; and
6. Bat Management Plan if required under Condition 26.2.

(c) The EMP subplans may be prepared at different times.

15.2 At least 20 Working Days before the start of Project Works, the EMP shall be submitted to BOPRC for certification that the EMP satisfies the requirements of Condition 15.1(a).

15.3 The certified EMP shall be implemented for the duration of Project Works.

16 Construction Air Quality Management Plan

16.1 The Consent Holder shall prepare a **Construction Air Quality Management Plan (CAQMP)**. The purpose of the CAQMP is to facilitate the avoidance, remediation and mitigation of potential construction air quality impacts associated with Construction Works. The CAQMP shall include:

(a) Sources of dust, odour and hazardous air pollutants that may be created during Construction Works;

(b) A map and list of all sensitive locations along the alignment;

(c) Methods and procedures to manage dust as a result of Construction Works, including triggers for the implementation of such measures, that may include:

1. Chemical stabilisation or suppression;

2. Revegetation of exposed surfaces;
3. The use of water (including water availability and water storage locations to be provided for the duration of Construction Works);
4. The covering or otherwise enclosing of materials;
5. Approaches to the location and management of stockpiles;
6. Methods and timeframes to Stabilise earthworks; and
7. Measures to manage dust generating works in dry and windy conditions.

(d) Procedures for assessing, mitigating and remedying the effects of any odorous material that is discovered as a result of Construction Works, including methods to:

1. Remove the material to reduce the exposure of odorous sources; and
2. Mask the odour.

(e) Identification of roles and positions of responsibility (including a community engagement and liaison team to consult with potentially affected property owners);

(f) Visual dust and meteorological monitoring and reporting procedures;

(g) Plan review procedures;

(h) Contact details of 'on-call' staff who can operate water application systems for dust suppression outside of normal working hours if required; and

(i) A complaint recording and response system, supported by appropriate mitigation measures, as necessary.

16.2 At least 20 Working Days before the start of Construction Works, the CAQMP shall be submitted to BOPRC for certification that the CAQMP satisfies the requirements of Condition 16.1.

16.3 The Consent Holder shall implement the CAQMP for the duration of Construction Works.

17 Chemical Treatment Management Plan

17.1 The Consent Holder shall prepare a **Chemical Treatment Management Plan (CTMP)**. The purpose of the CTMP is to determine whether chemical treatment will enhance the efficiency of sediment retention ponds and decanting earth bunds, and, if so, set out the details of a chemical treatment management system to achieve that outcome.

17.2 The CTMP shall include:

(a) The protocols and procedures for bench testing to determine which ESC measures will benefit from the use of flocculants, including the effectiveness, suitability and optimal rates of application of the specific flocculant proposed to be applied (including assumptions);

(b) If the analysis in (a) indicates that chemical treatment will enhance the efficiency of sediment retention ponds and / or decanting earth bunds:

1. The chemical flocculant(s) to be used;
2. Details on the types of ESC devices to be treated;
3. Specific design details including structures, methodology and timing of application of the flocculation system; calculations and dilution, including details of optimum dosage (and assumptions), and how chemical dosage has been adjusted to the minimum level necessary to achieve the most effective flocculent in terms of sediment removal;
4. Chemical storage location(s) and methods for secure storage of chemical flocculants;
5. Monitoring, maintenance and contingency management, including a record system and pH limits for discharges;
6. A spill contingency plan, which will include:

i. A requirement to report spills directly to any Waterbody or drain to BOPRC as soon as is practicable; and

ii. A record of any accidental spills (including date, location, Waterbody (if applicable), volume of spills and actions taken to recover spilled product) that the Consent Holder will update in the event that spills occur;

iii. A list of equipment to be kept on site to deal with any spills; and

iv. The contact details of the person responsible for the operation and maintenance of the chemical treatment system.

17.3 At least 20 Working Days before the start of Construction Works, the CTMP shall be submitted to BOPRC for certification that the CTMP satisfies the requirements of Condition 17.2.

17.4 The Consent Holder shall implement the CTMP for the duration of Construction Works.

18 Pre and Post-Excavation Building Surveys

18.1 At least 40 Working Days prior to starting excavation activities authorised by the Consent, the Consent Holder shall:

(a) Engage with the owner(s) of each property adjacent to the Designation Boundary that has a dwelling:

1. Within 50 metres of the Designation Boundary where only cut and fill earthworks are proposed; and

2. Within 100 metres of the Designation Boundary where piling activities are proposed.

(b) Offer to undertake a pre-excavation building survey, and:

1. If the offer in (b) is accepted, conduct a pre-excavation building survey. The survey shall be undertaken by a SQEP and shall document the condition of the building and structures following best practice, using written descriptions, photographs and measurements as required;

2. Where a pre-excavation building survey has been undertaken in accordance with 1. above, offer to undertake post-excavation building survey/s following completion of the excavation;

3. If the offer in 2. is accepted, conduct a post-excavation building survey. The survey shall be undertaken by a SQEP as soon as practicable and shall identify any damage (being detrimental cosmetic or structural damage to the building) that has occurred as a result of the excavation (as evidenced by a comparison between the pre and post-construction surveys);

4. Where damage to a building is identified as a result of excavation in accordance with 3., within 10 Working Days of completion of the excavation, offer to the owners of the building to fix that damage; and

5. If the offer is accepted, fix the damage. The Consent Holder shall fix the damage without undue delay following acceptance of the offer.

18.2 Copies of the relevant pre-excavation building survey reports shall be provided to the property owner(s) within 10 Working Days of each inspection being undertaken. A copy of the post-excavation building survey report shall be provided to the property owner(s) within 30 Working Days of the date of the post-excavation building survey.

18.3 If an offer made under Condition 18.1(b) is not responded to within four weeks of the offer being made, the offer will be deemed to have not been accepted (unless the Consent Holder agrees to a longer time period in the particular circumstance). Any offer must be accepted within 12 weeks of the offer being made, otherwise the offer will be deemed to have not been accepted.

19 Earthworks - General

19.1 The Consent Holder shall, as far as practicable, ensure that earthworks are undertaken in a manner which ensures that the stability of the land within the Designation Boundary and on properties adjoining the Designation Boundary is not adversely affected.

19.2 To achieve Condition 19.1, the Consent Holder shall prepare designs and construction methodologies for earthworks that are to be carried out within 50 metres of a property adjoining the Designation, which shall be reviewed and approved by a Chartered Professional Geotechnical Engineer.

19.3 Construction observations by a SQEP (Chartered Professional Geotechnical Engineer or nominee) shall be completed at appropriate intervals throughout Construction Works, as identified by a SQEP (Chartered Professional Geotechnical Engineer or nominee), to verify that the design and construction methodologies pursuant to Condition 19.2 are being implemented.

20 Winter Earthworks

20.1 All exposed areas of the site shall be fully Stabilised prior to 30 April of any year during the exercise of this Consent, and no earthworks shall be undertaken during the winter earthworks period, being between 1 May and 15 September (inclusive), unless a detailed works plan for the winter earthworks is prepared and certified in accordance with Condition 20.2.

20.2 20 Working Days prior to undertaking any earthworks within the winter earthworks period (1 May to 15 September), the Consent Holder shall submit to BOPRC for written certification a detailed works plan for the winter earthworks. The works plan shall indicate the works to be undertaken and include a SSESCP (as prepared under Condition 12.1) in accordance with the design standards as set out for winter earthworks in BOPRC '*Erosion and Sediment Control Guidelines for Land Disturbing Activities – Guideline 2010/1'*.

21 Baseline Marine monitoring

21.1 Baseline marine environment monitoring shall be conducted in Te Puna Estuary and Mangawhai Bay Estuary within 12 months prior to Construction Works that discharge to the Te Puna Estuary and Mangawhai Bay Estuary.

21.2 At the same time of year that the baseline monitoring in Condition 21.1 is carried out, marine environment monitoring shall take place on an annual basis during Construction Works that discharge to the Te Puna Estuary and Mangawhai Bay Estuary, and for two years after completion of Construction Works that discharge to the Te Puna Estuary and Mangawhai Bay Estuary. All monitoring shall be conducted in accordance with the Marine Monitoring Plan.

22 Marine Monitoring Plan

22.1 The Consent Holder shall prepare a **Marine Monitoring Plan (MMP)**. The purpose of the MMP is to characterise the marine environment and to understand and manage impacts of an accidental sediment discharge event from the Project Works on the receiving marine environment.

(a) The MMP shall include the following at Te Puna Estuary and Mangawhai Bay Estuary:

1. Details of the baseline and ongoing annual marine environment monitoring under Condition 21, including:

   i. Sampling procedures for replicate benthic infaunal and epifaunal invertebrates which shall include a minimum of 10 samples collected for a 50m x 30m sampling grid;

   ii. Sediment contaminants from road runoff (baseline and post-Construction Works only) and grain size;

   iii. Depth of oxygenated sediment;

   iv. Marine flora including seagrass;

   v. Marine monitoring locations including control sites;

2. Results of the baseline annual marine benthic habitat monitoring required under Condition 21 (after collection);

3. Triggers for additional measures and monitoring in the event of an accidental sediment discharge event, and details of the measures and monitoring requirements that are required to be implemented in the event of a trigger exceedance; and

4. Reporting requirements and frequency of reporting to BOPRC.

(b) At least 20 Working Days before starting Construction Works that could result in an accidental sediment discharge event on the receiving marine environment, the MMP shall be submitted to BOPRC for certification that it satisfies the requirements of Condition 22.1(a).

(c) The certified MMP shall be implemented until the operational monitoring required under Condition 21.2, and any additional monitoring required under Condition 22.1(a)3. is complete.

23 Wetland Management Plan

23.1 The Consent Holder shall prepare a **Wetland Management Plan (WMP)**. The purpose of the WMP is to manage any effects of the Project on Natural Wetlands (including through offset and compensation for Wetlands), and on habitat values for avifauna associated with Natural Wetlands.

(a) The WMP shall include:

1. Identification of the Natural Wetland(s) that will be modified, fragmented, partially lost, or wholly lost as a result of Project Works, and the timing and extent of that loss including with respect to area and values.

2. Details of the restoration planting, wetland creation and habitat rehabilitation to be undertaken to protect and restore the indigenous biodiversity values of the remaining areas of Natural Wetland(s) identified in 1. where they have been modified, fragmented and/or partially lost.

3. Details of the creation, restoration, and protection of Natural Wetland / Wetland avifauna habitats to be undertaken to restore the Natural Wetland avifauna habitat values lost as a result of impacts on Natural Wetlands within the Ōmokoroa and / or Merrin Wetlands.

4. Details of the restoration planting, Wetland creation and habitat rehabilitation to be undertaken to restore the indigenous biodiversity values of lost extents of the Natural Wetland(s) identified in 1.

5. Methods for wetland creation and restoration required in accordance with Conditions 30.2 and 30.4, including the requirements in regard to:

i. Wetland hydrology (including maintenance of hydrological structures, if needed for Wetland creation);

ii. Earthworks, including ESCPs;

iii. Sediment characteristics;

iv. Management of road-edge effects to prevent disturbance;

v. Timing of works (schedule of work);

vi. Fencing and long-term protection requirements;

vii. Riparian buffer requirements (including a minimum requirement of five metres of non-wetland riparian buffer planting surrounding constructed Wetlands);

viii. Species to be planted in Natural Wetland / Wetland and riparian zone (planting plan);

ix. The performance standards in Conditions 28.4 and 28.5.

x. Maintenance of planting;

xi. Maintenance of stock exclusion;

xii. Pest animal control; and

xiii. Pest plant control.

6. Details of native wetland plant species in different planting zones within all vegetation tiers in each zone (in compliance with Conditions 28.4 and 28.5) that shall be achieved before the expiry of the maintenance period and performance standards linked to specific timeframes. Performance standards shall:

i. Include a full array of indigenous plant species appropriate for the locality, and comprising species represented in proportions and cover expected for Wetland types found within the Tauranga Ecological District;

ii. Include a monitoring programme to demonstrate the outcome of Wetland creation and compliance with Conditions 28.4, 28.5, 30.2 and 30.4. The Wetland creation and maintenance work undertaken as described in the WMP shall be overseen by a SQEP; and

iii. Require, on completion of the creation and restoration work described in the WMP and Conditions 28.1 – 28.4, 30.2, 30.4, 30.5, the Consent Holder to provide BOPRC with a statement, signed by a SQEP, that the creation and restoration works have been undertaken in accordance with the certified WMP.

7. Details of the monitoring programme to attain the ecological outcomes in Conditions 30.2 and 30.4, including management requirements if monitoring demonstrates the requirements have not been met.

(b) At least 20 Working Days before starting Project Works, the WMP shall be submitted to BOPRC for certification that the WMP satisfies the requirements of Condition 23.1(a).

(c) The certified WMP shall be implemented for the duration of the works described in the WMP.

24 Aquatic Fauna Management and Monitoring Plan

24.1 The Consent Holder shall prepare an **Aquatic Fauna Management and Monitoring Plan (AFMMP)**. The purpose of the AFMMP is to manage and minimise effects on native freshwater fish and kākahi (freshwater mussels) prior to and during any required streamworks or works in a Natural Wetland which provides habitat for native freshwater fish and / or kākahi.

(a) The AFMMP shall include:

1. Methods for directing native fish and kākahi salvage and relocation, including site isolation procedure(s) and any site-specific requirements as appropriate;

2. Timing of fish / kākahi salvage and relocation, including management measures to take into account migration or spawning periods);

3. Procedures for the humane management and disposal of invasive exotic species;

4. Release sites for each impacted Watercourse / reach; and

5. Accidental harm and mortality minimisation protocols.

(b) At least 20 Working Days before starting streamworks, the AFMMP shall be submitted to BOPRC for certification that the AFMMP satisfies the requirements of Condition 24.1(a).

(c) The AFMMP shall be implemented for the duration of streamworks and works in Natural Wetlands.

25 Avifauna Management Plan

25.1 The Consent Holder shall prepare an **Avifauna Management Plan (AVMP)**. The purpose of the AVMP is to manage effects / disturbance during Project Works on native avifauna species, particularly cryptic wetland species.

(a) The AVMP shall include:

1. Habitats and avifauna present in the Designation Boundary and impacted by Project Works;
2. Nesting habitat preference for identified avifauna in 1. for vegetation and wetland clearance;
3. Nesting and sensitive time periods of identified avifauna in 1;
4. Requirements for avoidance of Construction Works, or Construction Works noise restrictions, if appropriate within identified avifauna habitats during breeding season, September to December inclusive of any year;
5. Detail on when pre-construction nesting bird surveys are required;
6. Pre-construction nesting bird survey protocols (and resulting outcomes, including exclusion zones if resident or nesting birds are present);
7. Accidental discovery protocols for threatened or at-risk species discovered during Project Works; and
8. Reporting requirements with respect to accidental protocols for encountering threatened or at-risk species, and methods implemented.

(b) At least 20 Working Days before starting Project Works, the AVMP shall be submitted to BOPRC for certification that the AVMP satisfies the requirements of Condition 25.1(a).

(c) The certified AVMP shall be implemented for the duration of Project Works.

26 Bat management

26.1 Within the 12 months prior to starting Project Works in areas where long-tailed bat may be impacted by Project Works, a SQEP shall conduct a bat presence survey to identify long-tailed bats within the Designation. The surveying shall be conducted during November - March and for a minimum of 21 suitable survey nights.

26.2 If the survey in Condition 26.1 above confirms a long-tailed bat presence, a **Bat Management Plan (Bat MP)** shall be prepared. The purpose of the Bat MP is to identify methods to be adopted to avoid and/or minimise adverse effects on bats.

(a) The Bat MP shall include:

1. Identification of potential bat roosts within areas of vegetation clearance;
2. Measures to avoid and minimise potential bat roost removal;
3. Where potential roost felling is not able to be avoided, detail on current best practice for tree removal protocols to avoid injury and/or mortality of roosting long-tailed bats; and
4. Identification of required habitat replacement and/or restoration to manage the effect of habitat loss on long-tailed bats.

(b) At least 20 Working Days before starting Project Works, the Bat MP (if required) shall be submitted to BOPRC for certification that the Bat MP satisfies the requirements of Condition 26.2(a).

(c) The Bat MP (if required) shall be implemented for the duration of Project Works.

27 Stream Management and Monitoring Plan

27.1 The Consent Holder shall prepare a **Stream Management and Monitoring Plan (SMMP)**. The purpose of the SMMP is to monitor and manage the ecological effects of the Project on aquatic ecosystems.

(a) The SMMP shall:

1. Establish the aims and objectives of stream management and monitoring including:
    i. For stream aquatic health for each stream realignment;
    ii. Design measures to achieve the aims and objectives; and
    iii. Monitoring measures to assess success in achieving the aims and objectives.
2. Establish qualitative and quantitative indicators of stable or improving trends in aquatic ecosystem health, fish and/or kākahi populations, physical habitat, and water quality thresholds in the receiving environment, as compared to baseline data obtained under Condition 27.1(a)5.i;
3. Include sampling and survey methods that align with relevant industry standards and protocols;
4. Include details of stream aquatic ecosystem health monitoring to be carried out prior to, during, and post construction, including:
    i. Monitoring locations, including establishment of permanent monitoring reaches downstream of each impacted Watercourse, and a minimum of two nearby representative reference Watercourses for monitoring of;
        1. Deposited fine sediment;
        2. Physical habitat descriptions;
        3. SEV monitoring;
        4. Kākahi surveys;
        5. Quantitative macroinvertebrate community sampling;
        6. Quantitative fish community surveys;
        7. Fish passage; and
        8. Water quality, including pH, conductivity, water temperature dissolved oxygen and turbidity.
5. Set out monitoring requirements, including:
    i. Quarterly baseline stream monitoring for a minimum of one year prior to Construction Works commencing;
    ii. Monthly water quality monitoring of each Watercourse while earthworks are taking place within the catchments that contain each Watercourse;
    iii. Biannual monitoring of the parameters in Condition 27.1(a)4.i during Construction Works;
    iv. Biannual monitoring of the parameters in Condition 27.1(a)4.i for a minimum of two years following the Completion of Construction, or until the installation requirements pursuant to Condition 27.1(a)7 are confirmed, whichever is earlier;
6. Include details of actions to be taken in the instance that water quality thresholds or other indicators in Condition 27.1(a)2 are not satisfied, and/or success as specified in Condition 27.1(d) has not been achieved, and details of the outcomes of those actions.
7. Include detailed culvert installation requirements as identified by a SQEP and informed by the baseline stream monitoring results under Condition 27.1(a)2;

8. Include reporting requirements, including the minimum reporting expectations for each type of monitoring under Condition 27.1(a)4, and timeframes for when reports shall be provided to BOPRC and DOC, where appropriate;

9. Include mitigation contingency measures to apply in the event of accidental / unexpected adverse effects on the impacted Watercourses to manage those effects, informed by the indicators, thresholds and baseline data established under Condition 27.1(a)2; and

10. Include stream designs for each affected stream or reach that includes a proposed stream realignment, stream reinstatement (i.e., daylighting) and/or culvert, as informed by baseline stream monitoring results, including as far as practicable:

    i. Replicating natural stream channels, taking into account the *NZ Fish Passage Guidelines, Version 2.0, 2024;*

    ii. Maximising the length of the realigned stream through meanders;

    iii. Maximising hydrological heterogeneity (including pools, runs, riffles) so that it is similar to or better than the reclaimed stream it replaces;

    iv. Incorporating similar or better mosaic of substrates than the stream that it replaces;

    v. Measures to prevent drainage of upstream Natural Wetlands;

    vi. Construction using natural materials;

    vii. Planting of indigenous vegetation in accordance with a planting plan prepared in accordance with Condition 28 for a zone either side of the stream; and

    viii. Measures for stock exclusion.

(b) The SMMP shall demonstrate that the total length of streams to be created as a result of stream realignments is equal to or exceeds the total length of streams that are infilled or culverted.

(c) At least 20 Working Days before starting streamworks, the SMMP shall be submitted to BOPRC for certification that the SMMP satisfies the requirements of Condition 27.1(a).

(d) The certified SMMP shall be implemented for the duration of the streamworks and thereafter until success has been confirmed. Success shall be determined by a SQEP (freshwater ecology) based on stable or improving trends in aquatic ecosystem health, fish and/or kākahi populations, water quality and physical habitat in the realigned streams, as compared to indicators, thresholds and baseline data established under Condition 27.1(a)2, and based on the culvert and stream designs (required under Conditions 27.1(a)7 and 27.1(a)10). Upon confirmation of success, the SMMP requirements shall be considered fulfilled, and no further monitoring or management under the SMMP will be required.

28 Ecological, Restoration and Landscape Planting

28.1 All planting required under the EMP shall:

(a) Use eco-sourced indigenous plant species appropriate to the locality, and the ecosystem / Wetland type being restored. These indigenous species shall be represented in appropriate diversity, proportions, cover, and configuration as would be expected for natural examples of the same ecosystem / Wetland types within the Tauranga Ecological District.

(b) Be overseen by a SQEP.

(c) Be adequately excluded from stock access.

28.2 Wetland creation, riparian planting and other restoration works shall be, where practicable, completed progressively and as soon as practicable.

28.3 For all areas likely to provide inanga spawning habitat, riparian planting adjacent to the water's edge of a Wetland or Natural Wetland shall include dense low growing vegetation.

28.4 All planting required under the EMP and associated subplans shall achieve at least 90% cover of indigenous species, with no more than 5% total cover of exotic species in any vegetation tier. The species shall be appropriate for all vegetation tiers found in a mature habitat, and shall include ground cover, sub canopy and canopy species.

28.5 All planting required under the EMP shall be maintained for a minimum period of five years from the date planted, with annual monitoring to assess the establishment of planting and to identify any constraints to achieving Condition 28.4. At the conclusion of the five year monitoring and maintenance period, a SQEP will prepare a report setting out whether Condition 28.4 has been achieved. This report shall be provided to BOPRC.

(a) If the report concludes that Condition 28.4 has been achieved, plant maintenance shall cease.

(b) If the report concludes that Condition 28.4 has not been achieved, the maintenance period shall be extended by a period of one year, with monitoring carried out annually until either:

1. Condition 28.4 has been achieved; or

2. A suitable remedial, offset and / or compensation alternative is agreed in writing between the Consent Holder and BOPRC.

29 Vegetation Clearance

29.1 The Consent Holder shall ensure that where practicable and safe, any trees shall be directionally felled or pulled back to prevent them from damaging the beds or banks of any Waterbodies.

29.2 The Consent Holder shall ensure that vegetation clearance is carried out in such a way as to limit soil disturbance, erosion and any scour of the bed or banks of any Waterbodies.

29.3 The Consent Holder shall ensure that, as far as reasonably practicable, all surface water or Waterbodies shall be kept clear of any vegetation and other constrictions resulting from the vegetation clearance.

30 Wetland restoration and creation

30.1 Prior to the commencement of Project Works, a SQEP shall determine whether the Project Works will result in a loss of Natural Wetland extent and / or impact on Natural Wetland/s within the Ōmokoroa and / or Merrin Wetlands (as identified in Appendix 2 and Appendix 3).

30.2 If the Project results in a loss of Natural Wetland extent and / or impact on Natural Wetland within the Ōmokoroa and / or Merrin Wetlands, the Consent Holder shall offset or compensate that loss through creation of new Wetland/s and restoration of existing Natural Wetlands. The efficacy of the proposed offset or compensation shall be confirmed through assessment of wetland condition, wetland pressure, and plot condition in accordance with “Clarkson, B. R., Sorrell, B. K., Reeves, P. N., Champion, P. D., Partridge, T. R., & Clarkson, B. D. (2004). *Handbook for monitoring wetland condition: Coordinated monitoring of New Zealand wetlands* (Revised). Ministry for the Environment” and the results modelled in accordance with the Department of Conservation *Biodiversity Offsets Accounting Model for New Zealand: User Manual* (Contract Report 2014-008, prepared by Catalyst Group) as determined by a SQEP, to reflect the actual loss of Natural Wetland extent and / or impact on Natural Wetland.

30.3 The maximum loss of Ōmokoroa and / or Merrin Wetland extent that can occur as a result of Project Works is 2.56 ha.

30.4 For impacts on other Natural Wetlands (Natural Wetlands that are not the Ōmokoroa or Merrin Wetlands), restoration and creation shall be undertaken in accordance with the following replacement ratios:

(a) For Natural Wetlands with a moderate value, a 1:2 (wetland loss : creation) or 1:1:1 ratio (wetland loss : creation : restoration); and

(b) For Natural Wetlands with a low value, a 1:1 (wetland loss : creation).

30.5 Created Wetlands will be located in ecologically / hydrologically suitable locations within or close to impacted catchments, as determined by a SQEP. Where practicable, created Wetlands will expand existing Natural Wetlands and / or be contiguous with Watercourses.

30.6 Five years after the Completion of Construction, a SQEP shall assess the Wetland creation and restoration undertaken pursuant to Conditions 30.2, 30.4 and 30.5 and provide a report to BOPRC. If the report concludes that any of the requirements in Conditions 30.2, 30.4 and 30.5 have not been achieved, a SQEP shall:

(a) Review and update the WMP to include methods and interventions to support the achievement of the relevant requirements; or

(b) Recommend suitable remedial, offset and / or compensation alternatives to achieve the relevant requirements, to be agreed in writing between the Consent Holder and BOPRC.

30.7 Following Completion of Construction, a SQEP shall assess the created and / or restored Wetland/s to confirm whether wetland hydrology is present. If wetland hydrology is not present, the SQEP shall review and update the WMP to include methods and interventions to support the establishment of wetland hydrology.

31 Final Construction Execution Procedure

31.1 A minimum of five Working Days prior to undertaking any specific site drilling under this Consent, the Consent Holder shall submit a **Final Construction Execution Procedure** which includes detailed design plans that show the final location(s), depths, duration and methodologies for drilling to BOPRC for information.

31.2 The Final Construction Execution Procedure is to apply for the duration of any specific site drilling under this Consent, and will be accessible on-site at all times.

32 Drilling Works

32.1 The Consent Holder shall:

(a) Ensure that all drilling fluids are discharged to land in a manner where they shall not enter water; and

(b) Monitor the drilling fluid discharge to ensure that it does not cause erosion, sedimentation or flooding of land not owned by the Consent Holder that is adjacent to the Designation Boundary.

32.2 The Consent Holder shall ensure that stream banks are not damaged, and their erosion resistance is not compromised by any drilling activities. Should any damage occur from drilling activities, the stream banks shall be remediated as soon as practicable.

33 Construction Requirements

33.1 All equipment used for drilling, and their maintenance, shall be kept clean to prevent the entry of contaminants to groundwater.

33.2 All chemicals, drill fluid additives, grout materials used in the construction and operation of the drill hole shall be prepared and used in accordance with the manufacturers' instructions.

33.3 The driller shall have available the manufacturers' guidelines and material safety data sheets for chemicals, drilling fluid additives and grout materials. This shall include instructions for handling, preparation, use, potential hazards, and disposal requirements for materials and their containers.

33.4 All grout materials shall be suitable in terms of their composition, density, strength, and corrosion resistance for the site and installation conditions.

33.5 Grout additives that could leave a residual toxicity in groundwater shall not be used.

33.6 Water used for drilling fluid or grouting shall be free of substances or contaminants that may adversely affect the strength of the grout or grout setting time.

33.7 Any Bentonite used must not contain any added substances that may adversely affect the strength of the grout or grout setting time or result in a discharge that affects groundwater quality.

33.8 The Consent Holder shall ensure that upon completion of the drilling works, wastes introduced during drilling and Construction Works are removed.

33.9 If artesian conditions are encountered, the Consent Holder shall ensure control of potential flowing artesian groundwater and prevent instability of the ground at the drill site. Groundwater leakage under flowing artesian pressures shall be prevented, where practicable.

34 Discharge Structures Installation

34.1 At least 40 Working Days prior to starting any site-specific discharge structure works (excluding site investigations and Enabling Works) authorised by this Consent, the Consent Holder shall submit to BOPRC the following:

(a) Written certification from a SQEP that the following is in accordance with good engineering practice and the Culverts and Stream Hydraulic Design Report required under Condition 38.2:

1. Final detailed engineering discharge structure sizes and designs and requirements for erosion protection, including design calculation and methodology; and

2. Final detailed design of all discharge structures including erosion protection and, where appropriate, the fish passage methods to be used when discharging flows of perennial streams, or where viable fish habitat exists upstream of the discharge structure.

(b) A schedule to identify locations of all discharge structures to be installed across the Project.

34.2 All discharge structure works authorised under this Consent shall be constructed in accordance with the plans, design and reports submitted under Condition 34.1.

34.3 Within 20 Working Days of completion of all discharge structures authorised by this Consent (including embankments, headwalls, aprons and erosion protection), the Consent Holder shall forward documentation to BOPRC covering the discharge structure as set out below:

(a) Written certification from a SQEP confirming that the discharge structure has been built in accordance with good engineering practice and in accordance with Conditions 34.1, 34.2, 34.4 and 36; and

(b) A schedule of structures identifying the locations of each discharge structure and full design details.

34.4 Discharge structures releasing into Te Puna Stream must be located to prevent damage and/or change in the salinity of the existing Wetlands within the tidally influenced portion of the stream.

35 Erecting structures over the Bed of a Watercourse

35.1 At least 40 Working Days prior to starting works authorised by this Consent (excluding site investigations and Enabling Works), the Consent Holder shall submit to BOPRC written certification from an SQEP that the detailed bridge design (including final design and scour calculations) is in accordance with good engineering practice and in accordance with Conditions 35.2 - 35.4, and the Culverts and Stream Hydraulic Design Report required under Condition 38.3, for the following bridges:

(c) Bridge SH2-530

(d) Bridge TNL-6870

(e) Bridge TNL-7240

(f) Bridge SH2-990

(g) Te Puna Stream Bridge TNL-9210

(h) Bridge AIN-1275

(i) Bridge SH2-5380

(j) Bridge SH2-6170

35.2 If an alternative structure is proposed instead of any of the bridges in Condition 35.1, or if any bridge structures are proposed in addition to those listed in Condition 35.1, the Consent Holder shall submit to BOPRC written certification from a SQEP confirming that the alternative structure or additional bridge structure (including final design and scour calculations) is in accordance with:

(a) Good engineering practice;

(b) Conditions 35.3 and 35.4; and

(c) The Culverts and Streams Hydraulic Design Report required under Condition 38.3.

35.3 Within 20 Working Days of completion of all bridge structures authorised by this Consent (including embankments), the Consent Holder shall provide to BOPRC as-built plans prepared by a SQEP confirming that the bridge structures have been built in accordance with the detailed bridge design certified under Condition 35.1.

35.4 Stormwater runoff from the completed bridge decks shall be directed to a stormwater treatment device prior to being discharged to the receiving environment, in a manner that does not cause bank or abutment erosion.

36 General works

36.1 Any erosion and scour of stream channel or banks resulting from discharge structure and/or bridge works under this Consent shall be Stabilised as soon as practicable.

36.2 The Consent Holder shall ensure that works within streams are not undertaken during periods where the flow in the existing stream exceeds the bank full flow.

36.3 The Consent Holder shall ensure that the stream banks are not damaged and that their erosion resistance is not compromised by Construction Works and/or any structure. Should any damage occur, the stream banks shall be remediated as soon as is practicable.

36.4 Any exposed area of ground resulting from the works associated with this Consent shall be Stabilised as soon as practicable, following completion of those works.

36.5 The Consent Holder shall ensure that erosion protection installed provides for fish passage, when discharging flows of perennial streams or where viable fish habitat exists upstream of the structure.

36.6 Where discharge structures release into sensitive environments, such as Watercourses, Natural Wetlands, and Wetlands, the discharge structure must be designed to distribute the released flow in a manner that prevents scour downstream of the discharge structure.

36.7 The Consent Holder shall not block land drains or otherwise prevent interconnectivity of agricultural drainage networks during Construction Works.

36.8 The Consent Holder shall ensure that no water associated with the mixing, pouring, placing and cleaning of structures and/or equipment is released into a Waterbody, unless that water has been treated and the pH of the water discharged is between 5.5-8.

37 Te Puna Stream Bridge

37.1 The Consent Holder shall ensure that temporary signage is installed upstream and downstream of the Te Puna Stream Bridge site to warn users of the Te Puna Stream of Construction Works and to advise them of any navigational safety restrictions.

37.2 The Consent Holder shall ensure that unimpeded access is maintained to the Te Puna Stream, except through areas where unimpeded access to the Stream would endanger the safety of the public as a result of Project Works.

38 Culverts and Streams

38.1 The Consent Holder shall submit a schedule to BOPRC at each Stage of Work to identify locations of all culverts to be installed across the relevant Stage of Work.

38.2 At least 40 Working Days prior to starting any culvert works or stream realignment works (excluding site investigations and Enabling Works) authorised by this Consent, the Consent Holder shall submit to BOPRC a Culverts and Stream Hydraulic Design Report for information.

38.3 The Culverts and Stream Hydraulic Design Report shall include:

(a) Written certification from a SQEP that the following is in accordance with good engineering practice and in accordance with Conditions 36 and 38.4 – 38.6:

1. Final detailed engineering culvert sizes and designs and requirements for erosion protection, including design calculation and methodology;

2. Final detailed design of all site-specific culverts including erosion protection and the fish passage methods to be used at each site;

3. Culvert embankments to be constructed at a safe batter slope; and

4. Final detailed design of stream realignments as specified in Condition 27.1(a)10.

38.4 All culvert and stream realignment works authorised under this Consent shall be constructed in accordance with the plans, design and reports submitted under Condition 38.3 above.

38.5 The Consent Holder shall, where practicable, ensure compliance with the *NZ Fish Passage Guidelines, Version 2.0, 2024*, including in relation to:

(a) Culvert design, when conveying flows of perennial streams or viable fish habitat exists upstream of the culvert; and

(b) Erosion protection in structures where passage is required under the *NZ Fish Passage Guidelines, Version 2.0, 2024*.

38.6 The Consent Holder shall set the inverts and outlets of culverts a minimum of 50 mm and a maximum of 100mm below the streambed or overland flowpath, where the *NZ Fish Passage Guidelines, Version 2.0, 2024* do not apply.

38.7 Within 20 Working Days of completion of a culvert structure authorised by this Consent (including embankments, headwalls and erosion protection), the Consent Holder shall provide to BOPRC as-built plans prepared by a SQEP confirming that the culvert structure has been constructed in general accordance with the design certified under Condition 38.3.

38.8 The installation works shall be undertaken to prevent damage to stream banks or beds outside of the works footprint and to prevent their erosion resistance from being compromised by the Construction Works. Any erosion and scour of stream channel or banks resulting from works under this Consent shall be Stabilised or remediated as soon as practicable.

38.9 Any exposed area of ground resulting from the works associated with this Consent shall be Stabilised as soon as practicable following completion of those works.

38.10 Whenever practicable, the installation of culverts shall be through an off-line construction methodology. Where works must be undertaken in the stream channel (on-line construction methodology) the works shall be undertaken in a manner that minimises the time machinery is in the channel as far as practicable.

39 National Environmental Standards for Freshwater – Mandatory Conditions

39.1 Within 20 Working Days of construction of any culverts being completed, the Consent Holder shall provide to BOPRC the information listed in the following Resource Management (National Environmental Standards for Freshwater) Regulations 2020:

(a) Regulation 62(3) Requirements for all activities: information about structures and passage of fish;

(b) Regulation 63(3) Requirement for culvert activities: information about culverts; and

(c) Regulation 69(2) Condition of resource consent for activities: monitoring and maintenance.

39.2 The Consent Holder shall ensure that the structure(s) authorised by the Consent are maintained in good working order, and shall undertake any maintenance work as soon as practicable if so directed by BOPRC.

40 Inspections, maintenance, monitoring and reporting

40.1 Inspection of bridge structures authorised by this Consent must be conducted at least annually and a report submitted on their performance and condition at intervals of five and ten years following construction of bridge structures, with an additional inspection and report required following a Large Storm Event.

40.2 The Consent Holder shall ensure that the structures authorised by this Consent are maintained, and shall undertake any maintenance work as soon as practicable if so directed by BOPRC.

40.3 The Consent Holder shall forward a copy of maintenance records required by Conditions 40.1 and 40.2 to BOPRC upon a request from BOPRC.

40.4 The Consent Holder shall check during maintenance activities that erosion protection is maintained downstream of the discharge.

41 Groundwater Drawdown

41.1 The Consent Holder shall prepare a **Groundwater Drawdown Monitoring Plan (GDMP)**. The purpose of the GDMP is to ensure there will not be significant ground settlement, effects on surface water or effects on groundwater bores.

41.2 The GDMP shall include:

(a) Identification of structures, groundwater bores and surface water resources potentially susceptible to groundwater drawdown effects;

(b) Specific groundwater drawdown locations and details (eg depth) of the installation of piezometers, to be installed prior to earthworks commencing if property owner approval is provided;

(c) 3-dimensional numerical modelling of groundwater drawdown at applicable locations;

(d) Pre-construction monitoring requirements to establish groundwater baseline readings;

(e) Frequency of testing and monitoring of groundwater drawdown locations and neighbouring properties, and reporting requirements for this testing (pre-Construction Works and during Construction Works);

(f) Analysis of pre-construction testing and monitoring undertaken pursuant to (d) and (e), when complete, to determine trigger levels for groundwater level and settlement monitoring during Construction Works;

(g) Methods and actions required where the trigger levels set in (f) are exceeded; and

(h) Physical mitigation measures to address potential building/structure settlement, groundwater bore interference and surface water resource depletion.

41.3 At least 40 Working Days before the start of Construction Works involving the take and use of groundwater and / or groundwater diversion, the GDMP shall be submitted to BOPRC for certification that the GDMP satisfies the requirements of Condition 41.2.

41.4 The Consent Holder shall implement the GDMP for the duration of Construction Works.

42 Detailed Site Investigation

42.1 The Consent Holder shall prepare a **Detailed Site Investigation** report (**DSI**) for each site identified as requiring a DSI in Tables A and B of Appendix 4 to these conditions. The purpose of the DSI report is to confirm the level of contamination at the PSI sites. The DSI shall be prepared in accordance with CLMG1 and CLMG5.

42.2 At least 40 Working Days before the start of contaminated land disturbance activities, the DSI shall be submitted to BOPRC for information.

43 Contaminated Site Management Plan

43.1 The Consent Holder shall prepare a **Contaminated Site Management Plan** (**CSMP**). The purpose of the CSMP is to identify contaminated sites within the Designation Boundary, and identify measures to manage potential risks from disturbance of contaminated soils to the health of workers and the environment.

43.2 The CSMP shall:

(a) Identify sites where contamination is expected to be present, as identified in the DSI, including details on the type and extent of the contamination, and whether remediation is considered to be required.

(b) Include site management protocols for management of contamination, including pre-Construction Works site set-up, soil excavation / disturbance procedures, soil reuse / management (procedures to reuse, place and cap unwanted topsoil that exceeds Clean Fill criteria), imported materials, groundwater procedures, health and safety procedures and measures for transport and disposal of contaminated soils, and ESC methodologies.

(c) Include specific site management protocols for disturbance of any asbestos contaminated soils, including an Asbestos Removal Control Plan.

(d) Where practicable, require all ESC measures to be installed prior to the commencement of the excavation of contaminated soils.

(e) Set out measures for temporary stockpiling of excavated contaminated material, where temporary stockpiling cannot be avoided, to ensure as far as practicable that contaminants are effectively bunded and imperviously covered so as to prevent contaminants leaching into uncontaminated ground.

(f) Include, where contaminated soil is to remain onsite, measures to ensure the contaminated soil remains in situ, as far as practicable, and ongoing survey requirements subsequent to the completion of soil disturbance works to ensure that contaminated soil has not spread.

(g) Include health and safety and environmental management procedures to be implemented (at locations where soil sampling has indicated that contamination is expected) during the Project Works, including but not limited to:

1. Personal protection and monitoring;
2. On-site soil management practices, including stockpile management and stormwater and sediment controls; and
3. Off-site soil transport and disposal.

(h) Include contingency measures to apply in the event of accidental/unexpected discovery of contaminated soils during Project Works to safely manage unexpected contamination.

(i) Be prepared in accordance with the requirements of the CLMG1.

43.3 At least 30 Working Days before the start of contaminated land disturbance activities, the CSMP shall be submitted to BOPRC for certification that the CSMP satisfies the requirements of Condition 43.2.

43.4 The Consent Holder shall implement the CSMP for the duration of Construction Works, with survey requirements extending beyond Construction Works, as determined by a SQEP.

44 Remedial Action Plan

44.1 If the CSMP identifies contaminated soils requiring remediation within the Designation Boundary, the Consent Holder shall prepare a **Remedial Action Plan (RAP)**. The purpose of the RAP is to identify a remedial strategy and controls to mitigate the risk posed by any contaminants identified in the CSMP.

44.2 The RAP shall be prepared in accordance with the requirements of section 2.7 of the CLMG1.

44.3 The RAP shall include:

(a) The remediation or management goal;

(b) Remediation methodology, including rationale, with a clear and systematic outline plan of works;

(c) Contingency measures if the remediation methodology fails to reach the remediation or management goal; and

(d) Proposed site validation sampling plan and reporting.

44.4 At least 30 Working Days before the start of Project Works in an area identified in the CSMP, the RAP shall be submitted to BOPRC for certification that it satisfies the requirements of Conditions 44.2 and 44.3.

44.5 The certified RAP shall be implemented for the duration of the Project Works in the areas identified by the CSMP.

45 Site Validation Report

45.1 Following completion of Project Works in an area to which a RAP applies, the Consent Holder shall prepare a **Site Validation Report (SVR)**. The purpose of the SVR is to validate that the objectives of the RAP have been achieved.

45.2 The SVR shall be prepared in accordance with the requirements of section 2.8 of CLMG1.

45.3 The SVR shall include:

(a) The location and dimensions of the excavations (of contaminated soils) carried out, including a relevant site plan, and records of where any contaminated soil is to remain on site;

(b) Records of any unexpected contamination encountered during the Project Works;

(c) Soil sampling / validation results where remediation has been carried out or where unexpected contamination has been encountered;

(d) Copies of the disposal dockets for the material removed from the Designation Boundary and any Clean fill imported onto the Designation Boundary; and

(e) The requirements for ongoing monitoring and management (if any contamination is contained within the Designation Boundary).

45.4 Within two months of completion of Construction Works in an area to which a RAP applies, the SVR shall be submitted to BOPRC for certification that it satisfies the requirements of Conditions 45.2 and 45.3.

46 Discharging Temporary Contaminants to Land and Discharge or Temporary Dust Suppressant Chemicals

46.1 The Consent Holder shall ensure that potentially contaminated stormwater from an area of contaminated soil disturbance is contained within the works area and discharged to ground soakage at the base of excavations.

46.2 The Consent Holder shall ensure that all visible contaminated surface and ground water discharge is directed to ESC devices.

46.3 The Consent Holder shall divert uncontaminated catchment runoff away from the area of earthworks and any stockpiled soils.

47 Discharging Contaminants to Water

47.1 The Consent Holder shall ensure that no discharge resulting from the exercise of this Consent shall result in any of the following at a point 50 metres downstream of discharge after reasonable mixing:

(a) The production of conspicuous oil or grease films, scums or foams, or floatable or suspended materials;

(b) Any conspicuous change in the colour or visual clarity;

(c) Emission of objectionable odour;

(d) Any significant adverse effect on aquatic life;

(e) The natural temperature of water being changed by more than three degrees celsius; and

(f) Aquatic organisms being rendered unsuitable for human consumption by the presence of contaminants.

47.2 The Consent Holder shall ensure that all sediment laden runoff from the site is treated by sediment retention structures. These structures are to be fully operational before bulk earthworks commence and shall be maintained by the Consent Holder to perform at least at 80% of their operational capacity.

48 Stormwater Management

48.1 The Consent Holder shall prepare a **Stormwater Operation and Maintenance Plan (SOMP)** for the permanent stormwater management system. The purpose of the SOMP is to outline the operation and maintenance requirements to ensure the permanent stormwater management system achieves the standards to which the system was designed and constructed. The designs shall be based on the NZTA document "*Stormwater Treatment Standard for State Highway Infrastructure*" (2010).

48.2 The SOMP shall include:

(a) A programme for regular monitoring and inspection of the stormwater management system including details of monitoring and inspection frequency;

(b) A programme for the regular collection and disposal of debris and sediment collected by the stormwater management devices to ensure that the attenuation volumes are not compromised and that appropriate contaminant removal procedures are established;

(c) Inspection checklists for all aspects of the stormwater management system including monitoring and maintenance of all stormwater attenuation facilities, stormwater treatment and attenuation wetlands, stormwater treatment wetlands, swales and all inlet and outlet structures;

(d) Trigger levels whereby exceedances require the implementation of Condition 51.3;

(e) Details of who will be responsible for operation and maintenance works; and

(f) Details of recording and reporting of operation and maintenance activities.

48.3 At least 40 Working Days before the start of Construction Works on the stormwater management system, the SOMP shall be submitted to BOPRC for certification that the SOMP satisfies the requirements of Condition 48.2.

48.4 The Consent Holder shall implement the SOMP for the duration of this Consent.

49 Final Stormwater Design

49.1 The Consent Holder shall submit to BOPRC for written certification at least 40 Working Days prior to starting any works on the stormwater management system authorised by this Consent, the final detailed designs for all aspects of the stormwater management system, including treatment of Natural Wetlands / Wetlands, drainage plans and the reticulated stormwater network. This shall include detailed design calculations and design methodologies. In order to ensure that appropriate stormwater quality, stormwater attenuation and erosion protection standards are met, the designs shall be based on the NZTA document "*Stormwater Treatment Standard for State Highway Infrastructure*" (2010).

50 Discharge Quantity

50.1 The Consent Holder shall ensure that the stormwater treatment wetlands are designed to attenuate the peak catchment flow runoff events through the attenuation of 2, 10 and 100 year catchment flows in accordance with the *BOPRC Stormwater Management Guidelines (January 2012)*, except where:

(a) The stormwater discharge is released into tidally influenced waters;

(b) The receiving environment is a Watercourse that has been constructed as part of the Project that has been designed to accommodate the higher peak discharges and discharges into tidally influenced waters; or

(c) A full catchment analysis has been provided to demonstrate that limited or no attenuation downstream will not cause an adverse effect.

51 Discharge Quality and Sampling

51.1 Should the discharge result in any of the effects listed in Condition 47.1, as reported through inspection or through a verified complaint, the Consent Holder shall collect a representative sample at the stormwater outlet. The stormwater sample shall be analysed for concentration of total suspended solids and total petroleum hydrocarbons by an IANZ accredited laboratory.

51.2 The Consent Holder shall collect a representative sample at the stormwater outlet(s) of the permanent stormwater management system, within one year of Completion of Construction, annually for the subsequent four years, and then once every five years thereafter. The stormwater sample shall be analysed for concentration of total suspended solids, total petroleum hydrocarbons, copper, lead, zinc, and polycyclic aromatic hydrocarbons by an IANZ accredited laboratory and the results provided to BOPRC upon receipt.

51.3 Any water quality results exceeding the maximum concentrations specified in the SOMP by more than 10% shall trigger the following:

(a) Notification within five Working Days to BOPRC of the exceedance(s);

(b) Investigation into the causes of the exceedance(s);

(c) Within two months of the results, corrective action to address the exceedance(s);

(d) Within three months of the results, re-testing of the discharge for constituents under Conditions 47.1 and 51.1 following implementation of corrective action;

(e) A report detailing (a)-(d) above, including the necessity for other testing, shall be forwarded to BOPRC within 30 Working Days following receipt of the re-testing results.

51.4 Should the water quality analysis results be more than 10% above the discharge quality specifications specified in the SOMP for three consecutive water samples analysed, the Consent conditions may be reviewed under Condition 4.1 to require additional on-site stormwater treatment.

51.5 The Consent Holder shall inspect the stormwater system, including the discharge structure, any rip rap erosion protection at the outlet, and the points where discharges enter waterways, on an annual basis and after any storm greater than a 10% AEP.

52 Water use monitoring

52.1 The Consent Holder shall keep a written record of any water pumped and the quantity of water taken. These records will be provided to BOPRC upon request.

ADVICE NOTES

1 The Consent Holder shall pay the BOPRC such administrative charges as are fixed from time to time by BOPRC in accordance with section 36 of the RMA.

2 The Consent Holder shall send all monitoring reports and notification required by these conditions to the Regulatory Compliance Manager, PO Box 364, Whakatāne 3158, or email compliance_data@boprc.govt.nz (compliance reporting) or notify@boprc.govt.nz (compliance notifications).

3 For the avoidance of doubt, the deemed certification process in Condition 6 applies to Management Plan(s) for Enabling Works.

4 The Consent Holder may prepare one ESCP, or separate ESCPs that meet Conditions 9.1 and 9.2.

5 The Designation for the Project also include conditions that require the preparation and implementation of a CMP. The Consent Holder may prepare one CMP that meets the conditions of the Designation and this Consent or two separate CMPs.

6 For the purposes of Condition 15, the initial preparation of the EMP need not include all of the required subplans. These subplans can be added to the EMP as and when they are prepared, in accordance with the timeframes set out in the relevant Management Plan conditions

7 The Wetland Management Plan is the equivalent of a Biodiversity Management Plan as referenced in Rule DD6 of the Bay of Plenty Regional Coastal Environment Plan.

8 The duration of implementation for the subplans contained within the EMP are as set out in those specific sub-management plan conditions.

9 The Designation for the Project also includes conditions that require building condition surveys. Compliance with Condition 18 with respect to property owners may also constitute compliance with the conditions of the Designation.

10 The methods defined within Condition 30.2 allow for the implementation of restoration and effects management prior to impacts on Natural Wetlands to reduce the time lag within the offset or compensation modelling.

11 A resource consent from Western Bay of Plenty District Council is also required for activities under the Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011. That consent includes conditions that are similar to Conditions 42 - 45 of this Consent. Compliance with Conditions 42 - 45 will constitute compliance with the conditions of that consent. The Consent Holder may prepare one DSI, CSMP, RAP, and SVR that meets the conditions of both this Consent and the Western Bay of Plenty District Council consent.

APPENDIX 1 - DEFINITIONS

The table below defines the acronyms and terms used in these conditions. Defined terms are capitalised.

Abbreviation/term	Meaning/definition
ARI	Average recurrence interval (the average time period between rainfall or flow events that equal or exceed a given magnitude).
BOPRC	Bay of Plenty Regional Council, being the Chief Executive, or authorised delegate.
Clean fill	Has the same meaning as in the '*The WasteMINZ Technical Guidelines for Disposal to Land Version 3.1 (2023)*'.
CLMG1	Ministry for the Environment *Contaminated land management guidelines No 1: Reporting on contaminated sites in New Zealand* (Revised 2021).
CLMG5	Ministry for the Environment *Contaminated land management guidelines No 5: Site investigation and analysis of soils* (Revised 2021).
Completion of Construction	When construction of the Project (or the relevant part of the Project) is complete, and the Project (or the relevant part of the Project) is operational.
Consent	The relevant consent or consents that the conditions apply to, being: • RM25-0466-LC.01; and / or • RM25-0466-LC.02; and / or • RM25-0466-BC.01; and / or • RM25-0466-WT.01; and / or • RM25-0466-DC.02; and / or • RM25-0466-DC.01; and / or • RM25-0466-DC.03; and / or • RM25-0466-WT.02.
Consents	Consents RM25-0466-LC.01, RM25-0466-LC.02, RM25-0466-BC.01, RM25-0466-WT.01, RM25-0466-DC.02, RM25-0466-DC.01, RM25-0466-DC.03, RM25-0466-WT.02 (unless otherwise specified).
Consent Holder	New Zealand Transport Agency Waka Kotahi
Construction Works	Activities undertaken to construct the Project, excluding Enabling Works.
Designation	Designation D203 (Road purposes – State Highway 2) and Designation D181 (Road for access to State Highway 2) in the Western Bay of Plenty District Plan.

Abbreviation/term	Meaning/definition
Designation Boundary	The boundary of the area of land subject to the Proposed Designation.
DOC	The Department of Conservation
Enabling Works	Preparatory works and investigations to enable Construction Works, including the following activities: • Archaeological investigations • Geotechnical investigations • Formation of access for site investigations • Establishing construction yards and offices • Constructing and sealing (if necessary) access roads and accesses to private properties and the Project • Contaminated land investigations • Demolition or removal works, including contaminated land clearance • Fencing • Vegetation protection or removal works • Protection and relocation of utilities • Establishment of mitigation measures (such as screen planting) for Enabling Works
ESC	Erosion and Sediment Control
FTAA	Fast Track Approvals Act 2024
Large Storm Event	A 10 year average recurrence interval storm or larger storm event

Abbreviation/term	Meaning/definition

Management Plan(s)	The following plans and reports (which are collectively referred to as Management Plans):
	• Erosion and Sediment Control Plan
	• Site Specific Erosion and Sediment Control Plan
	• Construction Management Plan
	• Biosecurity Management Plan
	• Construction Air Quality Management Plan
	• Chemical Treatment Management Plan
	• Ecological Management Plan including subplans as follows:
	  ○ Marine Monitoring Plan
	  ○ Wetland Management Plan
	  ○ Aquatic Fauna Management and Monitoring Plan
	  ○ Avifauna Management Plan
	  ○ Bat Management Plan if required under Condition 26.2
	  ○ Stream Management and Monitoring Plan
	• Culverts and Stream Hydraulic Design Report
	• Groundwater Drawdown Monitoring Plan
	• Detailed Site Investigation
	• Contaminated Site Management Plan
	• Remedial Action Plan if required under Condition 45.1
	• Site Validation Report if required under Condition 46.1
	• Stormwater Operation and Maintenance Plan
	• Final Stormwater Design

Merrin Wetland	The Wetland complex identified in Appendix 2.

Abbreviation/term	Meaning/definition
Natural Wetland(s)	A Wetland that is not: (a) in the coastal marine area; (b) a deliberately constructed wetland, other than a wetland constructed to offset impacts on, or to restore, an existing or former natural inland wetland; or (c) a wetland that has developed in or around a deliberately constructed water body, since the construction of the water body; or (d) a wetland that: (i) is within an area of pasture used for grazing; and (ii) has vegetation cover comprising more than 50% exotic pasture species; unless (iii) the wetland is a location of a habitat of a threatened species identified under clause 3.8 of the National Policy Statement for Freshwater Management 2020.
Ōmokoroa Wetland	The Wetland complex identified in Appendix 3.
PSI	Preliminary Site Investigation
Project	The construction, operation and maintenance of Takitimu North Link Stage 2.
Project Representative	The person or persons appointed by the Consent Holder (or their nominated contractor) to be the main and readily accessible point of contact for anyone wanting information about the Project.
Project Works	All Enabling Works and Construction Works.
Trigger Event	An event in which there is greater than 100mm of rainfall over any 24 hours, 50mm rainfall within 6 hours, or rainfall intensity of 25mm/hr.
RMA	Resource Management Act 1991
RNRP	Bay of Plenty Regional Natural Resources Plan
SSESCP	Site Specific Erosion and Sediment Control Plan
Stabilisation, Stabilised, Stabilised area	Refers to an area inherently resistant to erosion, such as rock, or an area rendered resistant to erosion by the application of stabilisation methods, such as the use of mulch, aggregate, geotextile, or other method approved through the certified SSESCP. Where vegetation is to be used on a surface that is not otherwise resistant to erosion, the surface is considered stabilised once an 80% vegetation cover has been established.
Stage of Work	A specific works area or new land disturbing activity associated with construction of the Project as nominated by the Consent Holder.

Abbreviation/term	Meaning/definition
SQEP	Suitably Qualified Experienced Person - a person (or persons) who can provide sufficient evidence to demonstrate their suitability and competence in the relevant field of expertise.
Unwanted organisms (and/or pests)	As defined in s2 of the Biosecurity Act 1993.
Watercourse(s)	Perennial, intermittent and ephemeral rivers and streams but not overland flow paths, conveyance channels, Natural Wetlands or Wetlands.
Waterbody	A Watercourse, lake, Wetland, Natural Wetland or aquifer
Wetland(s)	Includes permanently or intermittently wet areas, shallow water, and land water margins that support a natural ecosystem of plants and animals that are adapted to wet conditions.
Working Day	A day of the week other than— (a) Saturday, a Sunday, Waitangi Day, Good Friday, Easter Monday, Anzac Day, the Sovereign's birthday, Te Rā Aro ki a Matariki/Matariki Observance Day, and Labour Day; and (b) if Waitangi Day or Anzac Day falls on a Saturday or a Sunday, the following Monday; and (c) a day in the period commencing on 20 December in any year and ending with 10 January in the following year.

APPENDIX 2 – MERRIN WETLAND COMPLEX

Indicative extent of Merrin Wetland restoration (white outline), freshwater wetland (blue outline/fill), saltmarsh wetland (green outline/fill).

APPENDIX 3 - ŌMOKOROA WETLAND COMPLEX

Indicative extent of Ōmokoroa Wetland restoration (white outline), freshwater wetland (blue outline/fill), saltmarsh wetland (green outline/fill).

APPENDIX 4 – SITES REQUIRING A DSI

Key:

No DSI required
DSI required: HAIL A.10 – (orchard only, no storage sheds etc.) Contaminants reasonably expected above background levels in some soils.
DSI required: All other land uses where HAIL identified, including orchards with storage sheds. Elevated levels of contaminants reasonably expected in some site soils.

Table A: Land parcels on-site requiring a DSI (privately owned)

Current Legal Description	Property ID Code	Land Parcel Name Allocated for the Purpose of this PSI	More likely than not that HAIL activities occurred on the area of site impacted by the proposed road designation?	DSI Required?	Identified Contaminants of Concern
Part allot 75 Te Puna Psh	36		No.	No	-
Lot 2 DPS 76152	37	1205/6	Yes **HAIL A.10**.	Yes	Metals, OCP
Lot 3 DPS 76152	38	1205/7	Yes - **HAIL A.10** (on the encroaching orchard area only), potential **HAIL A.1** (fill point – adjacent site), **HAIL E.1, HAIL I** (sheds – adjacent site)	Yes	Metals, OCP, asbestos
Lots 1 & 2 DPS 5073	39	3002/452	Yes - **HAIL F.4, HAIL F.7, HAIL A.17**, potential for **HAIL E.1, HAIL I**	Yes	Metals, asbestos, hydrocarbons
Lot 3 DPS 10643	41	1205/24	Yes - **HAIL A.10**, potential for **HAIL E.1, HAIL I on suspected historic house site**	Yes	Metals, pesticides, asbestos
Lot 1 DPS 29552	42	1207/285	Yes - **HAIL A.10** (on orchard area), potential **HAIL E.1, HAIL I** (around shed), **HAIL A.1** (fill Point)	Yes	Metals, OCPs
Lot 3 DPS 29552	43	3002/2	Yes -**HAIL A.10**, potential **HAIL E.1, HAIL I** (Shed only)	Yes	Metals, pesticides, asbestos
Lot 2 DPS 29552	45	1207/165	Yes- **HAIL A.10**	Yes	Metals, OCP
Lot 1 DPS 27924	46	3002/341	Yes- **HAIL A.10**	Yes	Metals, OCP
Lot 1 DPS 509914	47	3002/260	Yes - **HAIL A.10**	Yes	Metals, OCP
Lot 1 DPS 49164	48	3002/59	Yes - potential **HAIL E.1, HAIL I, HAIL A.17, HAIL A.1, HAIL A.6**	Yes	Asbestos, metals
Lot 1 DPS 34018	49	3002/61	Yes - Potential **HAIL E.1, HAIL I, HAIL F.8, HAIL A.1, HAIL A.17**	Yes	Asbestos, metals, hydrocarbons
Lot 1 DPS 90796	50	3002/185	Yes - **HAIL A.10**	Yes	Metals, OCP
Lot 3 DPS 38759	51	3002/45	No.	No	-
Lot 1 DPS 29812	53	3002/21	Yes - **HAIL A.10,** potential for **HAIL I**	Yes	Metals, OCP
Part 2 DPS 56303	54	3002/3	No.	No	-
Lot 2 DPS 61605	55	1203/42	No.	No	-
Lot 1 DPS 67894	56	1203/72	Yes - **HAIL A.10** (orchard area only)	Yes	Metals, OCP
Section 3 SO 557694	59	1207/351	Yes - **HAIL A.10** (orchard area only)	Yes	Metals, OCP
Lot 3 DPS 28670	60	3003/11490	No.	No	-
Lot 1 DPS 28670	63	1203/130	Yes - **HAIL A.10, potential for HAIL A.1** (fill point only)		Metals, OCP
Lot 2 DPS 70802	64	1203/5	Yes - **HAIL A.10** (on the encroaching orchard area only).	Yes	Metals, OCP
Lot 4 DPS 70802	65	1203/7	Yes - **HAIL A.10,** potential for **HAIL I**	Yes	Metals, OCP
Lot 1 DPS 71072	105	1203/1	No.	No	-

Current Legal Description	Property ID Code	Land Parcel Name Allocated for the Purpose of this PSI	More likely than not that HAIL activities occurred on the area of site impacted by the proposed road designation?	DSI Required?	Identified Contaminants of Concern
Lot 1 DPS 311691	106	1203/53	Yes - **HAIL A.10** (orchard area only)	Yes	Metals, OCP
Lot 2 DPS 454121	108	1207/289	No.	No	-
Lot 2 DPS 563502	114	3002/274	**Yes - HAIL E.1, HAIL I, potential HAIL A.10**	Yes	Asbestos, metals, OCPs
Lot 2 DPS 28670	66	3003/11255	Yes - **potential for HAIL I**	Yes	Metals, OCP
Lot 1 DPS 370230	67	3003/47	No.	No	-
Lot 2 DPS 370230	68	3003/48	No.	No	-
Lot 6 DPS 12952	69	3003/11072	No.	No	-
Lot 2 DPS 12952	70	3003/11032	**Yes - HAIL E.1, potential HAIL A.10**	Yes	Asbestos, metals, OCPs
Lot 1 DPS 353725	71	1210/78	Yes – **HAIL G.5, potential for HAIL E.1** and **HAIL I**	Yes	Asbestos, metals, OCP, hydrocarbons
Lot 2 DPS 353725	72	1210/79	Yes – **HAIL I**	Yes	Metals
Lot 1 DPS 12952	73	1210/477	Yes – **HAIL A.10**	Yes	Metals, OCP
Lot 1 DPS 12236	75	1210/170	Yes – **HAIL A.10, potential for HAIL E.1 and HAIL I**	Yes	Asbestos, metals, hydrocarbons
Allot 380 Te Puna Psh Section 1 SO 492478	78	1210/2	Yes – **HAIL B.4, potential for HAIL E.1** and **HAIL I**	Yes	Asbestos, PCBs, metals, hydrocarbons
Lot 1 DPS 190	80	1210/20	Yes – **Potential for HAIL E.I, HAIL I**	Yes	Asbestos, metals
Lot 1 DPS 28825	81	1213/1	Yes – **HAIL A.8, HAIL A.10** and **HAIL G.5 (timber storage areas only)**	Yes	metals, OCP
Lot 1 DPS 55363	84	3003/9852	Yes - **HAIL A.10** (orchard area only)	Yes	Metals, OCP
Lot 4 DPS 71883	98	1211/5	Yes – **HAIL A.10**	Yes	metals, OCP
Allot 283 Te Puna Psh	101	1209/907	No.	No	-
Lot 2 DPS 80612	102	1209/6	No.	No	-
Lot 1 DPS 67841	109	1210/301	No.	No	
Lot 1 DPS 48400	110	1210/290	**Yes - HAIL E.1, HAIL A.10** (orchard area only)	Yes	Asbestos, metals, OCPs
Lot 1 DPS 55964	115	1210/390	No.	No	
Lot 3 DPS 28825	87	3003/9332	No.	No	
Lot 1 DPS 63246	88	3003/9431	Yes – **potential for HAIL H and HAIL I** from fill**, HAIL A.10** (orchard area only)	Yes	Asbestos, metals, OCPs, hydrocarbons
Lot 2 DPS 475801	89	1187/101	Yes - **HAIL A.10,** potential for **HAIL E.1, HAIL I**	Yes	Asbestos, Metals, OCP
Lot 4 DPS 44151	91	1857/952	No.	No	
Part Allot 2058 Te Puna Psh	94	3003/8385	Yes – **Potential for HAIL E.1** and **HAIL I, HAIL A.10**	Yes	Asbestos, metals, OCP
Allot 331 Te Puna Psh	95	3003/8615	No.	No	-
Lot 1 DPS 84565	96	1216/14	Yes – **HAIL A.10, D5, potential for E.1** and **HAIL I**	Yes	Asbestos, metals, OCP
Lot 105 DP 518597	1	1 (Lot 105 DP 518597)	Yes - **HAIL I** and **HAIL A.10.**	Yes	Metals and OCP
Lot 8 DP 518597		1 (Lot 8 DP 518597)			
Lot 104 DP 518597	3	3 (Lot 104 DP 518597)		Yes	Metals and hydrocarbons.

Current Legal Description	Property ID Code	Land Parcel Name Allocated for the Purpose of this PSI	More likely than not that HAIL activities occurred on the area of site impacted by the proposed road designation?	DSI Required?	Identified Contaminants of Concern
Lot 7 DP 518597		3 (Lot 7 DP 518597)	Yes - **HAIL A.10** and the potential for **HAIL E.1** and **HAIL I.**		
Lot 1 DP 457299	5	5	No.	No	-
Lot 6 DP 540637	6	6a (Lot 6 DP 540637)	No.	No	-
Lot 3 DP 540637		6a (Lot 3 DP 540637)			
Lot 3 DPS 84340	8	8	**Yes - HAIL A.10, HAIL A.17**, **HAIL F.8**, and the potential for **HAIL E.1, HAIL E.4, HAIL I, HAIL A.6** and **HAIL A.8**.	Yes	Metals, OCP, asbestos, hydrocarbons.
Lot 6 DP 520811	34	34	Yes - **HAIL A.10.**	Yes	Metals, OCP
Lot 1 DPS 68242	35	35	Yes - **HAIL A.10.**	Yes	Metals, OCP
Lot 2 DPS 63246	104	1187/64	Yes – **HAIL A.10**	Yes	Metals, OCP
Lot 3 DPS 63246	111	1187/21	Yes – **HAIL A.10**	Yes	Metals, OCP
Lot 2 DPS 46459	4	3003/5947	Yes – **Potential for HAIL E.1** and **HAIL I, HAIL A.10**	Yes	Asbestos, metals, OCP
Lot 5 DPS 519035	7	1308/58	Yes – **Potential for HAIL E.1** and **HAIL I**	Yes	Asbestos, metals
Lot 2 DPS 62877	11	11	Yes – **Potential for HAIL E.1** and **HAIL I, HAIL A.10**	Yes	Asbestos, metals, OCP
Lot 2 DP 489130	15	15	Yes - **HAIL A.10**.	Yes	Metals and OCP
Lot 2 DPS 27371	17	17	Yes - **HAIL A.10**.	Yes	Metals and OCP
Lot 1 DPS 69984	20	20	Yes – the potential for **HAIL G.5**.	Yes	Metals, OCP, asbestos and hydrocarbons
Lot 2 DPS 69984	21	21	Yes – the potential for **HAIL G.5.**	Yes	Metals, OCP, asbestos and hydrocarbons
Lot 3 DP 467507	22	22	Yes - **HAIL A.10**.	Yes	Metals and OCP
Lot 1 DP 500485	23	23	Yes - Potential for **HAIL A.8**.	Yes	Metals and OCP
Lot 10 DPS46507	401	1253/2	No.	No	-
Lot 1 DPS 5342	403	3003/6832	No.	No	-
Lot 1 DPS 326995	404	3003/6832	No.	No	-

Table B: Land parcels on-site requiring a DSI (Crown or District Council owned)

Current Legal Description	Property ID Code	Land Parcel Name Allocated for the Purpose of this PSI	More likely than not that HAIL activities occurred on the area of site impacted by the proposed road designation?	DSI Required?	Identified Contaminants of Concern
Lot 2 DPS 355615	9	3003/42	Yes - **HAIL A.10** potential for **HAIL F.8**	Yes	Metals, OCP, asbestos, hydrocarbons
Lot 4 DP 540637	10	3003/87	No.	No	-
Road	10a		No.	No	-
Lot 8 DPS 7337	14	1305/34	Yes - **HAIL A.10** potential for **HAIL E.1**	Yes	Metals, OCP, asbestos
Lot 9 DPS 7337	16	3003/6945	Yes - **HAIL A.10** potential for **HAIL A.17, HAIL E.1, HAIL I**	Yes	Metals, OCP, asbestos
Lot 3 DPS 77886	18	3003/17	Yes - **HAIL A.10** potential for **HAIL E.1**	Yes	Metals, OCP, asbestos
Lot 11 DPS 7337		3003/6705			

Current Legal Description	Property ID Code	Land Parcel Name Allocated for the Purpose of this PSI	More likely than not that HAIL activities occurred on the area of site impacted by the proposed road designation?	DSI Required?	Identified Contaminants of Concern
Lot 2 DPS 77886	19	1307/6	Yes - **HAIL A.10** potential for **HAIL A.17, HAIL E.1**	Yes	Metals, OCP, asbestos
Part Lot 1 DPS 4431	24	3003/18	Yes - **HAIL A.10** potential for **HAIL E.1, HAIL I**	Yes	Metals, OCP, asbestos
Part Lot 1 DPS 4431	25	3003/19	Yes - **HAIL A.10** potential for **HAIL A.17, HAIL E.1, HAIL I**	Yes	Metals, OCP, asbestos
Lot 1 DPS 16949	26	3003/94	Yes- **HAIL A.10**	Yes	Metals, OCP
Ainsworth Road	27		No.	No	-
Te Puna Quarry Road	29		No.	No	-
Lot 4 DP 467507	30	1308	Yes- **HAIL A.10**	Yes	Metals, OCP
Lot 10 DPS 7337	31	3003/6885	Yes - **HAIL A.10** potential for **HAIL E.1**	Yes	Metals, OCP, asbestos
Ainsworth Road	32		No.	No	-
Francis Road	40		No.	No	-
Lot 1 DPS 21267	44	1207/1	Yes - **HAIL A.10** potential for **HAIL E.1**	Yes	Metals, OCP, asbestos
Lot 1 DPS 24386	52		Yes - **HAIL A.10** potential for **HAIL E.1**	Yes	Metals, OCP, asbestos
Youngson Road	57		No.	No	-
Lot 2 DPS 28670	61	1203/94	Yes - **HAIL A.1, HAIL A.10** potential for **HAIL A.6, HAIL A.17, HAIL F.8**	Yes	Metals, OCP, asbestos, hydrocarbons
Lot 1 DPS 15263	62	3003/11535	Yes - **HAIL A.10** potential for **HAIL E.1**	Yes	Metals, OCP, asbestos
Plummers Point Road	74		No.	No	-
Albert Lane	76		No.	No	-
Lot 2 DPS 12236	77	1210/130	Yes - **HAIL A.10** potential for **HAIL E.1**	Yes	Metals, OCP, asbestos
Plummers Point Road	79		No.	No	-
Lot 1 DPS 28825	82	1210/270	Yes - **HAIL A.10** potential for **HAIL E.1, HAIL I**	Yes	Metals, OCP, asbestos
Lot 1 DPS 55363	83	3003/9886	Yes - **HAIL A.10** potential for **HAIL E.1, HAIL I**	Yes	Metals, OCP, asbestos
Lot 1 DPS 52965	85	3003/9606	Yes - **HAIL A.10** potential for **HAIL A.17, HAIL E.1, HAIL I**	Yes	Metals, OCP, asbestos
Lot 3 DPS 55363	86	3003/9608	Yes - **HAIL A.10** potential for **HAIL E.1, HAIL I**	Yes	Metals, OCP, asbestos
Lot 3 DPS 28825	87	3003/9332	No.	No	-
Lot 4 DPS 44151	91	1857/952	No.	No	-
Lot 1 DPS 24491	92	3003/8963	Yes - potential for **HAIL I**	Yes	Metals, OCP
Lot 1 DPS 12986	93	3003/8965	Yes - **HAIL A.10, HAIL F.4,** potential for **HAIL E.1, HAIL G.5, HAIL I**	Yes	Metals, OCP, asbestos, hydrocarbons
Munro Road	97		No.	No	-
Lot 1 DPS 68390	107	**1207/182**	**Yes - HAIL E.1, potential HAIL A.10**	Yes	Asbestos, metals, OCPs
Section 1 SO 557694	112	1207/349	Yes- **HAIL A.10**	Yes	Metals, OCP
Lot 2 DPS 34055	117	1209/350	Yes - **HAIL A.10** potential for **HAIL E.1, HAIL I**	Yes	Metals, OCP, asbestos

Current Legal Description	Property ID Code	Land Parcel Name Allocated for the Purpose of this PSI	More likely than not that HAIL activities occurred on the area of site impacted by the proposed road designation?	DSI Required?	Identified Contaminants of Concern
Lot 1 DPS 76152	118	1205/5	Yes- **HAIL A.10**	Yes	Metals, OCP
Lot 3 DP 423036	119	1209/16	No.	No	-
SO 41098	120	1207/902	No.	No	-
Ainsworth Road	402		No.	No	-
SH 2 Road designation Opposite Lot 1 DPS 11415 & Lot 1 DPS 43685.	-		**HAIL F.4** Motor vehicle workshop (Gull Station and Workshops)	Yes	Metals, asbestos, hydrocarbons
SH2 Road Designation Opposite Part Lot 1 DPS 1991	-		**HAIL A.1** Agrichemicals (Contractor's depot)	Yes	Metals, OCP, asbestos, hydrocarbons