



Appendix E - Permitted Activities Assessment

Queen Street Wastewater Diversion Project – Part 3 Part 4 Connector

Project number:	W-SL001.00
Document Title:	Permitted Activities, Queen Street Wastewater Diversion Programme– Part 3/Part 4 Connector project
Date:	10 November 2023
Version:	V01

The following sets out the permitted activity provisions of the Auckland Unitary Plan (AUP) that are relied upon to construct the Part 3 Part 4 connector tunnel:

Auckland Unitary Plan Permitted Activities		
Activity	Standards	Comment
E25.4.1 (A1) Construction Noise and Vibration in the Road Reserve.	E25.6.29 Construction noise and vibration levels for work within the road (3) The noise levels specified in Standard E25.6.29(1) above do not apply to unplanned repair or maintenance works or planned works in the road corridor between the hours of 7am and 10pm where: (b) because of the nature of the works and the proximity of receivers the noise generated cannot be practicably made to comply with the relevant noise levels of the following tables: (i) Table E26.6.27.1 Construction noise limits for activities sensitive to noise in all zones except the Business - City Centre Zone and the Business – Metropolitan Centre Zone;	As assessed in the Construction Noise and Vibration Assessment in Appendix I, tunnelling works in the road corridor will occur underground as part of the works. As per the AUP standards, a Construction Noise and Vibration Management Plan is submitted alongside this application. Council will be notified of the works beginning more than five days prior to their start.

	<p>(ii) Table E25.6.27.2 Construction noise levels for noise affecting any other activity; or</p> <p>(iii) Table E25.6.28.1 Construction noise levels for construction less than 15 consecutive calendar days duration in the Business – City Centre Zone and the Business – Metropolitan Centre Zone; or</p> <p>(iv) Table E25.6.28.2 Construction Noise levels for construction of 15 consecutive calendar days or more duration in the Business – City Centre Zone and the Business – Metropolitan Centre Zone; or</p> <p>(c) for planned works, a copy of the works access permit issued by Auckland Transport or approval from the New Zealand Transport Agency is provided to the Council five days prior to work commencing; or</p> <p>(d) for planned works where the works will take more than 8 hours to complete a construction noise and vibration management plan is provided to the Council no less than five days prior to the works commencing in accordance with the applicable provisions of Standard E25.6.29(5) below</p> <p>(4A) The vibration levels specified in E25.6.29(1A)(b) do not apply to works within the road where:</p> <p>(b) a construction noise and vibration management plan is provided to the Council no less than five days prior to the works commencing in accordance with the applicable provisions of Standard E25.6.29.(5) below.</p> <p>(5) construction noise and vibration management plan must be prepared by a suitably qualified and experienced person and include the following:</p> <p>(a) details of the community consultation to be undertaken to advise the occupiers of properties located within 100m of the proposed works of all of the following:</p> <p>(i) the area affected by the work;</p> <p>(ii) why the work is required to be undertaken at night (where relevant);</p>	
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	<p>(iii) the times and days when the noise and vibration is likely to be generated;</p> <p>(iv) a contact name and number of the works supervisor who can be contacted if any issues arise and</p> <p>(v) how noise and vibration complaints will be managed and responded to;</p> <p>(b) a description of the works and its duration, anticipated equipment to be used, the processes to be undertaken, and the predicted noise and vibration levels; and</p> <p>(c) identification of the best practicable options that will be undertaken to mitigate and minimise any noise and vibration being produced that is likely to exceed the relevant levels of the following tables:</p> <p>(i) Table E26.6.27.1 Construction noise limits for activities sensitive to noise in all zones except the Business - City Centre Zone and the Business – Metropolitan Centre Zone;</p> <p>(6) For the purpose of Standards E25.6.29(1) to E25.6.29(4A) above:</p> <p>(a) planned work means work that has been planned to take place at least seven days before the work commences;</p> <p>(b) the measurement and assessment of all construction noise must be in accordance with New Zealand Standard NZS 6803:1999 Acoustics – Construction noise; and</p> <p>(c) the measurement of all vibration must be in accordance with E25.6.30 Vibration.</p>	
<p>Network utilities and electricity generation – all zones and roads</p> <p>General</p> <p>E26.2.3.1 (A4)</p> <p>Minor utility structure</p>	No relevant standards	<p>The Project is infrastructure which proposes a new section of pipe that will connect the Part 3 and Part 4 portions of the Queen Street wastewater alignment.</p>



E26.2.3.1 (A9)

Pipes and cables for the conveyance of water, wastewater, stormwater, electricity, gas, and telecommunications

E26.2.3.1 (A12)

Temporary signage during the construction of network utilities and electricity generation facilities, which is in place for no longer than 12 months

Water, wastewater and stormwater structures

E26.2.3.1 (A49)

Underground pipelines and ancillary structures for the conveyance of water, wastewater and stormwater (including above ground ancillary structures associated with underground pipelines)

E26.2.3.1 (A57)

Ventilation facilities, drop shafts and manholes

<p>E26.5 Network Utilities and electricity generation – Earthworks all zones and roads</p> <p>E26.5.3.1 (A95) Earthworks up to 2500m² other than for maintenance, repair, renewal, minor infrastructure upgrading</p> <p>E26.5.3.1 (A96) Earthworks up to 2500m³ other than for maintenance, repair, renewal, minor infrastructure upgrading</p> <p>E26.5.3.2 (A101) Earthworks up to 10,000m² where land has a slope less than 10 degrees outside the Sediment Control Protection Area other than for maintenance, repair, renewal, minor infrastructure upgrading</p>	<p>E25.5.5.2 General Standards Regional</p> <p>(1) Earthworks associated with the operation, repair, renewal, upgrading and maintenance of existing roads, will be undertaken within the legal road or the formation width of existing roads if this extends beyond the legal road width. (2) Land disturbed for the operation, repair, renewal, upgrading or maintenance of utilities will be stabilised by re-vegetation, grassing or other suitable means as soon as practicable after completion of the works to avoid erosion and scouring. (3) Land disturbance must not, after reasonable mixing, result in any of the following effects in receiving waters: the production of conspicuous oil or grease films, scums or foams, or floatable or suspended materials; any conspicuous change in the colour or visual clarity; any emission of objectionable odour; the rendering of fresh water unsuitable for consumption by farm animals; or any significant adverse effects on aquatic life. (4) Best practice erosion and sediment control measures must be implemented for the duration of the land disturbance. Those measures must be installed prior to the commencement of land disturbance and maintained until the site is stabilised against erosion. Note 1 Best practice in Auckland is generally deemed to be compliance with Auckland Council Technical Publication 90 Erosion and Sediment Control Guideline for Land Disturbing Activities in the Auckland Region or similar design. (5) Dewatering of trenches and other excavations must be done in accordance with best practice and must not result in a discharge of untreated sediment laden water to any stormwater reticulation system or water body.</p>	<p>Required earthworks are well below the permitted threshold. The total area of earthworks will be approximately 31m². The total volume of earthworks will be 120m³. This accounts for the 100m³ of spoil removed during shaft construction and the 20m³ removed during tunnelling.</p> <p>As assessed in the Groundwater Drawdown Assessment in Appendix K, the works will not result in any instability of land beyond the site boundary. No network utilities will be disrupted during the P3-P4 Connector works.</p> <p>No access to private property will be restricted during these works.</p> <p>No cleanfill material is required to be imported. Measures to ensure that the discharge of dust beyond the boundaries of the site are outlined in the ESCP in Appendix H. These will be addressed in further detail in the Construction Management Plan, to be supplied to Council before works commences</p> <p>No filling is proposed within 1% floodplains, ensuring that there will be no changes in flood hazards beyond the site. Measures to manage the temporary disruption to the flow of the OLFP have been detailed in the ESCP.</p> <p>No changes will be made to the entry and exit points of overland flowpaths throughout the Greys Avenue Carpark site, as assessed in Appendix G. Any diversions will be temporary and will ensure that any overland flows are conveyed as existing as in Appendix H.</p>
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	<p>(6) Trenching must be progressively closed and stabilised such that no more than 120m of continuous trench is exposed to erosion at any one time.</p> <p>(7) Only cleanfill material may be imported and utilised as part of the land disturbance.</p> <p>(8) To prevent the spread of contaminated soil and organic material with kauri dieback disease, vehicle and equipment hygiene procedures must be adopted when working within 3 times the radius of the canopy drip line of a New Zealand kauri tree. Soil and organic material from land disturbance within 3 times the radius of the canopy drip line must not be transported beyond that area unless being transported to landfill for disposal.</p> <p>District</p> <p>(9) Earthworks associated with the operation, repair, renewal, upgrading and maintenance of existing roads, will be undertaken within the legal road or the formation width of existing roads if this extends beyond the legal road width.</p> <p>(10) Land disturbed for the operation, renewal, repair, upgrading or maintenance of utilities outside the formation width of existing roads or abutments, or within an overland flow path, will be reinstated to the ground level prior to the works being undertaken as soon as practicable after completion of the works.</p> <p>(11) Land disturbed for the operation, repair, renewal, upgrading or maintenance of utilities will be stabilised by re-vegetation, grassing or other suitable means as soon as practicable after completion of the works to avoid erosion and scouring.</p> <p>(12) Land disturbance within Riparian Yards and Coastal Protection Yards are limited to:</p>	<p>Stockpiling within the CSA at Greys Avenue will occur outside of the 1% AEP floodplain.</p>
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	<p>(a) operation, maintenance and repair (including network utilities);</p> <p>(b) less than 5m² or 5m³ for general earthworks;</p> <p>(c) less than 10m² or 5m³ for the installation of new network utilities;</p> <p>(d) installation of fences and walking tracks;</p> <p>(e) burial of marine mammals.</p> <p>(13) Works must not result in any instability of land or structures at or beyond the boundary of the property where the land disturbance occurs.</p> <p>(14) The land disturbance must not cause malfunction or result in damage to network utilities, or change the cover over network utilities so as to create the potential for damage or malfunction.</p> <p>(15) Access to public footpaths, berms, private properties, network utilities, or public reserves must not be obstructed unless that is necessary to undertake the works or prevent harm to the public.</p> <p>(16) Only cleanfill material may be imported and utilised as part of the land disturbance.</p> <p>(17) Measures must be implemented to ensure that any discharge of dust beyond the boundary of the site is avoided or limited such that it does not cause nuisance.</p> <p>(18) Earthworks (including filling) within a 1% AEP flood plain (excluding road network activities):</p> <p>(a) must not raise ground levels more than 300mm, to a total fill volume up to 10m³ which must not be exceeded through multiple filling operations; and</p> <p>(b) must not result in any adverse changes in flood hazard beyond the site.</p>	
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	<p>Note 1 This standard does not limit excavation and replacement of fill to form building platforms, where those works do not raise ground levels.</p> <p>(19) Earthworks (including filling) within overland flow paths (excluding road network activities) must maintain the same entry and exit point at the boundaries of a site and not result in any adverse changes in flood hazards beyond the site, unless such a change is authorised by an existing resource consent.</p> <p>(20) Temporary land disturbance and stockpiling of soil and other materials within 1% AEP flood plain and/or overland flow path for up to a maximum of 28 days in any calendar year may occur as part of construction or maintenance activities.</p> <p>(21) Burial of marine mammals must be undertaken by the Department of Conservation or the agents of the Department of Conservation.</p> <p>(22) Land disturbance around Transpower NZ Ltd electricity transmission line poles must:</p> <ul style="list-style-type: none"> (a) be no deeper than 300mm within 2.2m of a transmission pole support structure or stay wire; and (b) be no deeper than 750mm within 2.2 to 5m of a transmission pole support structure or stay wire; except that: (c) vertical holes not exceeding 500mm diameter beyond 1.5m from the outer edge of a pole support structure or stay wire are exempt from Standards E26.5.5.2(22)(a) and (b) above. <p>(23) Land disturbance around Transpower NZ Ltd electricity transmission lines towers must:</p> <ul style="list-style-type: none"> (a) be no deeper than 300mm within 6m of the outer visible edge of a transmission tower support structure; and 	
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	<p>(b) be no deeper than 3m between 6 to 12m from the outer visible edge of a transmission tower support structure.</p> <p>(24) Land disturbance within 12m of a Transpower NZ Ltd electricity transmission line pole or tower must not:</p> <p>(a) create an unstable batter that will affect a transmission support structure; or</p> <p>(b) result in a reduction in the ground to conductor clearance distances as required by NZECP34:2001.</p>	
<p>Natural Hazards</p> <p>E36.4.1 (A54)</p> <p>Infrastructure within roads or the Strategic Transport Corridor Zone in:</p> <ul style="list-style-type: none"> Coastal erosion hazard area Coastal storm inundation 1% annual exceedance probability (AEP) area coastal storm inundation 1 per cent annual exceedance probability (AEP) plus 1m sea level rise area in the 1 per cent annual exceedance probability (AEP) floodplain; in overland flow paths 	<p>E36.6.1.6 Storage of goods and materials in the 1 per cent annual exceedance probability (AEP) floodplain</p> <p>(1) Goods and materials stored in the 1 per cent annual exceedance probability (AEP) floodplain for longer than 28 consecutive days must:</p> <p>(a) not impede flood flows; and</p> <p>(b) where capable of creating a safety hazard by being shifted by floodwaters, be contained and secured in order to minimise movement in times of floods; and</p> <p>(c) be stored in watertight containers if they are hazardous substances.</p>	<p>If a connection cannot be attained to the power grid, diesel generators will be needed to power tunnelling equipment. To fuel the generators, up to 2.55t of diesel will be stored on site in the Greys Avenue CSA. Storage of the diesel is covered under consent application for Part 3 works, BUN60422974. Spill containment procedures are outlined within the CMP for the Part 3 works as part of BUN60422974, noting that these procedures will also apply to the works sought under this consent.</p>



<ul style="list-style-type: none">• on land which may be subject to land instability		
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