

6.iii APPENDIX C – E11 AND E12 AUP ASSESSMENTS

E11.6 (GENERAL EARTHWORK STANDARDS – REGIONAL)

E11.6 – GENERAL EARTHWORK STANDARDS REGIONAL Standard & Criteria	COMPLIANCE
<p>E12.6.1. Accidental discovery rule</p> <p>(1) Despite any other rule in this Plan permitting earthworks or land disturbance or any activity associated with earthworks or land disturbance, in the event of discovery of sensitive material which is not expressly provided for by any resource consent or other statutory authority, the standards and procedures set out in this rule must apply.</p>	<p>In the event of any discovery during the earthworks, the contractor will cease work immediately and follow the steps required by E11.6.1(3).</p> <p>COMPLIES</p>
<p>E11.6.2 (1)</p> <p>Land disturbance must not, after reasonable mixing, result in any of the following effects in receiving waters:</p> <p>(a) the production of conspicuous oil or grease films, scums or foams, or floatable or suspended materials;</p> <p>(b) any conspicuous change in the colour or visual clarity;</p> <p>(c) any emission of objectionable odour;</p> <p>(d) the rendering of fresh water unsuitable for consumption by farm animals; or</p> <p>(e) any significant adverse effects on aquatic life.</p>	<p>As detailed within the Maven Earthworks Management Plan, all earthworks will be supported by GD05 complying sediment and erosion controls, and this will any adverse effects from sediment runoff during construction.</p> <p>COMPLIES</p>
<p>E11.6.2 (2)</p> <p>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.</p>	<p>The earthworks are supported by sediment and erosion control plans as per the amended plans attached. The sediment and erosion control plans are designed as per the requirements of GD 05.</p> <p>COMPLIES</p>
<p>E11.6.2 (3)</p> <p>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>Dewatering of any trenches and excavations will be done in accordance with best practice guidelines. This will ensure that there is no discharge of untreated sediment loaded water into the adjoining stream.</p> <p>COMPLIES</p>
<p>E11.6.2 (4)</p>	<p>Any trenching will be done in accordance with this Standard.</p> <p>COMPLIES</p>

<p>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>E11.6.2 (5)</p> <p>Only cleanfill material may be imported and utilised as part of the land disturbance.</p>	<p>Imported material will consist of aggregate for road and JOAL construction. This material will achieve the definition of cleanfill, and will be sourced either locally (for the peat soil) and/or from a legal quarry for the gravel.</p> <p>COMPLIES</p>
<p>E11.6.2 (6)</p> <p>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>There are no known Kauri trees located within the extent of the earthwork areas.</p> <p>NOT APPLICABLE</p>
<p>E11.6.2 (7)</p> <p>Earthworks for maintenance and repair of driveways, parking areas, sports fields and major recreational facilities within the Significant Ecological Areas Overlay shall be limited to the area of earth previously disturbed or modified.</p>	<p>The very eastern edge of Lot 2 adjoins an SEA Overlay. However, all earthworks are significantly removed from this interface. i</p> <p>NOT APPLICABLE</p>
<p>E11.6.2 (8)</p> <p>Earthworks associated with a temporary activity within the Significant Ecological Areas Overlay shall be limited to the area of earthwork previously disturbed or modified.</p>	<p>No earthworks are located within or near to a Significant Ecological Area.</p> <p>NOT APPLICABLE</p>

E12.6 (GENERAL EARTHWORK STANDARDS – DISTRICT)

E12.6 – GENERAL EARTHWORK STANDARDS Standard & Criteria	COMPLIANCE
<p>E12.6.1. Accidental discovery rule</p> <p>(1) Despite any other rule in this Plan permitting earthworks or land disturbance or any activity associated with earthworks or land disturbance, in the event of discovery of sensitive material which is not expressly provided for by any resource consent or other statutory authority, the standards and procedures set out in this rule must apply.</p>	<p>In the event of any discovery during the earthworks, the contractor will cease work immediately and follow the steps required by E12.6.1(3).</p> <p>COMPLIES</p>
<p>E12.6.2 (1)</p> <p>Land disturbance within riparian yards and coastal protection yards are limited to:</p> <p>(a) operation, maintenance and repair (including network utilities); less than 5m² or 5m³</p> <p>(b) ; for general earthworks; less than 10m² or 5m³</p> <p>(c) for the installation of new network utilities;</p> <p>(d) installation of fences and walking tracks; or</p> <p>(e) burial of marine mammals</p>	<p>Whilst attempts have been made to minimise earthworks in riparian yards, full avoidance is not possible. Earthworks associated with culvert upgrades, JOAL construction and Forestry Road upgrades all fall within the riparian areas, and thus require consent. It is noted, however, that the application does not propose any reclamation.</p> <p>DOES NOT COMPLY</p>
<p>E12.6.2 (2)</p> <p>Land disturbance 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>The earthworks are contained within the development site and comply with this standard.</p> <p>COMPLIES</p>
<p>E12.6.2 (3)</p> <p>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>The earthworks are contained within the site, and removed from any utilities.</p> <p>COMPLIES</p>
<p>E12.6.2 (4)</p> <p>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>There is no (formal) public access within the site. Works within Forestry Road will be managed in such a way to ensure no users are affected during construction.</p> <p>COMPLIES</p>
<p>E12.6.2 (5)</p>	<p>Suitable dust control will be implemented as/if required by the contractor. Aside from</p>

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.	earthworks associated with Forestry Road, most works are internalised and thus dust control is not considered to be of concern or high risk in this instance. COMPLIES
E12.6.2 (6) Burial of marine mammals must be undertaken by the Department of Conservation or the agents of the Department of Conservation..	NOT APPLICABLE
E12.6.2 (7) Land disturbance around Transpower NZ Ltd electricity transmission line poles must: (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 E12.6.2(7)(a) and E12.6.2(7)(b) above.	All earthworks near the National Grid corridor and pylon complies with this standard. COMPLIES
E12.6.2 (8) Land disturbance around Transpower NZ Ltd electricity transmission lines towers must: (a) be no deeper than 300mm within 6m of the outer visible edge of a transmission tower support structure; and (b) be no deeper than 3m between 6-12m from the outer visible edge of a transmission tower support structure	All earthworks near the National Grid corridor and pylon complies with this standard. COMPLIES
E12.6.2 (9) Land disturbance within 12m of a Transpower NZ Ltd electricity transmission line pole or tower must not: (a) create an unstable batter that will affect a transmission support structure; or (b) result in a reduction in the ground to conductor clearance distances as required by New Zealand Electrical Code of Practice for Electrical Safe Distances NZECP34:2001.	All earthworks near the National Grid corridor and pylon complies with this standard. COMPLIES

<p>E12.6.2 (10)</p> <p>Only cleanfill material may be imported and utilised as part of the land disturbance.</p>	<p>Imported material will consist of aggregate for road and JOAL construction. This material will achieve the definition of cleanfill, and will be sourced either locally (for the peat soil) and/or from a legal quarry for the gravel.</p> <p>COMPLIES</p>
<p>E12.6.2 (11)</p> <p>Earthworks (including filling) within a 100 year annual exceedance probability (AEP) flood plain:</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> <p><i>Note1 This standard does not limit excavation and replacement of fill to form building platforms, where those works do not raise ground levels</i></p>	<p>The depth of earthworks exceeds 300mm and the total volume exceeds 10m³. This is unavoidable, however, the Maven Flood Modelling report confirms that there are no adverse effects created from this earthworks needed within the flood plain to provide safe vehicle access to the development and existing users along Forestry Road.</p> <p>CONSENT SOUGHT</p>
<p>E12.6.2 (12)</p> <p>Earthworks (including filling) within overland flow paths 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>We note that there are a number of existing OLFPs which extend through the site.</p> <p>Whilst modification of OLFPs has occurred within the site, there has been no modification to the entry or exit point of the OLFPs from the site.</p> <p>COMPLIES</p>
<p>E12.6.2 (13)</p> <p>Temporary land disturbance and stockpiling of soil and other materials within the one per cent annual exceedance probability (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>The stockpile shown in the appended engineering plans are located outside of any flood plain or OLFPs.</p> <p>COMPLIES</p>
<p>E12.6.2 (14)</p> <p>Earthworks for maintenance and repair of driveways, parking areas, sports fields and major recreational facilities on a site or places of Significance to Mana Whenua must be limited to the area and depth of earth previously disturbed or modified.</p>	<p>NOT APPLICABLE</p>
<p>E12.6.2 (15)</p>	<p>NOT APPLICABLE</p>

Earthworks for maintenance and repair of driveways, parking areas, sports fields and major recreational facilities within the Historic Heritage Overlay must not extend more than 300 mm below the surface where additional rules for archaeological sites or features apply as listed in Schedule 14 Historic Heritage Schedule, Statements and Maps.	
E12.6.2 (16) Earthworks associated with a temporary activity on a site or place of significance to Mana Whenua shall be limited to the area of earthwork previously disturbed or modified.	NOT APPLICABLE
E12.6.2 (17) Earthworks/land disturbance for the planting of any tree within the Historic Heritage Overlay must not be undertaken where additional rules for archaeological sites or features apply as listed in Schedule 14 Historic Heritage Schedule, Statements and Maps, other than as a replacement for a pre-existing tree; and, within the area previously occupied by the root plate of the pre-existing tree.	NOT APPLICABLE