

NES Plantation Forestry – Guidance

Permitted Activities - Stream Crossing



This guide has been developed to assist you to understand if your forestry stream crossing is a permitted activity, and if so what standards you are required to meet for this

1. Do you need a resource consent for your stream crossing?

	Consent Required	
	Yes	No
1.1 Is the catchment size above the stream crossing more than 100 hectares?	<input type="checkbox"/>	<input type="checkbox"/>
1.2 Is the crossing in a wetland or outstanding waterbody, or a protection management area? <i>Refer to the Tairāwhiti Resource Management Plan for more information</i>	<input type="checkbox"/>	<input type="checkbox"/>
1.3 Is the crossing less than 500m upstream of a dwelling that is within 15m of a riverbed greater than 3m wide?	<input type="checkbox"/>	<input type="checkbox"/>
1.4 Is the crossing downstream of a dwelling with a ground-floor level that is less than 1m above the highest part of the river crossing?	<input type="checkbox"/>	<input type="checkbox"/>
1.5 Is the crossing a bridge that will be in place for more than 2 weeks, or a drift deck?	<input type="checkbox"/>	<input type="checkbox"/>
1.6 Is the crossing a ford which will be in place for more than 6 months or a ford located in a Scheduled Aquatic Ecosystem Waterbody? <i>Refer to the Tairāwhiti Plan Maps for the locations of these waterbodies</i>	<input type="checkbox"/>	<input type="checkbox"/>
1.7 Is the crossing going to involve work in a river bed in streams with “close out” times:		
- In tidal locations between 1 March and 30 June	<input type="checkbox"/>	<input type="checkbox"/>
- Streams scheduled as trout habitat between 1 May and 30 September <i>Refer to the Tairāwhiti Resource Management Plan for more information</i>	<input type="checkbox"/>	<input type="checkbox"/>
- Streams scheduled as aquatic ecosystem waterbodies or important habitats of long finned eel between 1 May and 30 August <i>Refer to the Tairāwhiti Resource Management Plan for more information</i>	<input type="checkbox"/>	<input type="checkbox"/>
- Streams scheduled as sites where NZ or Banded Dotterel or other river bed nesting birds between 31 August and 31 December	<input type="checkbox"/>	<input type="checkbox"/>

2. Are you able to meet the Permitted Activity standards?

If any of these standards are not met, then consent is required

	Met	Not Met
Written notice to the Council of between 20-60 days prior to the construction or removal of the crossing.	<input type="checkbox"/>	<input type="checkbox"/>
No alteration to the alignment or gradient of the stream as a result of the crossing.	<input type="checkbox"/>	<input type="checkbox"/>
The crossing does not compromise the structural integrity of other structures in the stream or lake.	<input type="checkbox"/>	<input type="checkbox"/>
The crossing does not result in flooding or ponding on properties owned by other people.	<input type="checkbox"/>	<input type="checkbox"/>
The crossing provides for fish passage and maintains river bed material in the structure.	<input type="checkbox"/>	<input type="checkbox"/>
The crossing does not cause erosion of the bed or banks of the stream or create sedimentation.	<input type="checkbox"/>	<input type="checkbox"/>
Approaches to and abutments must be stabilised to avoid erosion and sedimentation.	<input type="checkbox"/>	<input type="checkbox"/>
Surface run-off from roads must be diverted away from waterbodies within 10m of the crossing.	<input type="checkbox"/>	<input type="checkbox"/>
The stream crossing will be maintained to avoid aggradation or erosion of the bed.	<input type="checkbox"/>	<input type="checkbox"/>

The stream crossing construction, maintenance and removal must not discharge any contaminants into water other than sediment.	<input type="checkbox"/>	<input type="checkbox"/>
All practicable steps must be taken to avoid discharging sediment into the waterbody, or onto land where it can enter water.	<input type="checkbox"/>	<input type="checkbox"/>
All practicable steps must be taken to minimise the disturbance of the bed of the stream.	<input type="checkbox"/>	<input type="checkbox"/>
Flood flow estimations must be calculated for all river crossings except fords and these records provided to the council on request. <i>Refer to Schedule 2 of the NES-PF for the methods which can be used to calculate flood flows</i>	<input type="checkbox"/>	<input type="checkbox"/>
Elevated sediment levels must not occur for more than 8 hours.	<input type="checkbox"/>	<input type="checkbox"/>
All practicable steps must be taken to avoid wet concrete or concrete ingredients coming into contact with flowing or standing water.	<input type="checkbox"/>	<input type="checkbox"/>
All machinery must be kept out of flowing or standing water, except where it is needed to cross the waterbody for the work.	<input type="checkbox"/>	<input type="checkbox"/>
The structure shall be maintained in a sound condition for the purpose for which it was constructed, and be kept clear of accumulated debris.	<input type="checkbox"/>	<input type="checkbox"/>

Additional Culvert Standards

The calculated 5% AEP storm flow from the catchment above the crossing must be no greater than 5.5 m ³ /second. Note the Council requires these records to be provided to demonstrate compliance with this standard prior to culvert construction.	<input type="checkbox"/>	<input type="checkbox"/>
The culvert must be designed to pass a 5% AEP event without heading up.	<input type="checkbox"/>	<input type="checkbox"/>
Culverts must be designed to include an overflow for flood flows.	<input type="checkbox"/>	<input type="checkbox"/>
Culvert diameter at least 450mm.	<input type="checkbox"/>	<input type="checkbox"/>
Maximum fill height over culvert of 2.5 metres.	<input type="checkbox"/>	<input type="checkbox"/>
Highest point of crossing – at the inlet end, no greater than 3.5m above the river bed.	<input type="checkbox"/>	<input type="checkbox"/>
Invert located so that 20% or more of the diameter is below the river bed level.	<input type="checkbox"/>	<input type="checkbox"/>
Maximum length of culvert with no slope is 20m.	<input type="checkbox"/>	<input type="checkbox"/>
Where bankfull channel width is 3m or more, invert gradient no more than 6%.	<input type="checkbox"/>	<input type="checkbox"/>
Culvert inlets and outlets must be protected against erosion.	<input type="checkbox"/>	<input type="checkbox"/>
Culvert approaches and fill must be compacted, clean and free of organic matter.	<input type="checkbox"/>	<input type="checkbox"/>
The structure shall be maintained to give effect to its design capacity, including remedying as soon as practicable any blockage or obstruction occurring as a result of the structure.	<input type="checkbox"/>	<input type="checkbox"/>

Additional Ford Standards

Must be constructed where there are hard and stable banks and bed.	<input type="checkbox"/>	<input type="checkbox"/>
Banks on either side of the ford must be less than 1m high.	<input type="checkbox"/>	<input type="checkbox"/>
Use of the ford must not cause a conspicuous change in colour or visual clarity beyond 100m downstream for more than 30 mins after use of the ford.	<input type="checkbox"/>	<input type="checkbox"/>

Temporary Bridges

Must only be in place for 2 weeks.	<input type="checkbox"/>	<input type="checkbox"/>
Must have no piers within the bed.	<input type="checkbox"/>	<input type="checkbox"/>
The underside of the bridge is higher than the top of the riverbank.	<input type="checkbox"/>	<input type="checkbox"/>
The bridge abutments/foundations are constructed parallel to the flow.	<input type="checkbox"/>	<input type="checkbox"/>
No excavation or infilling of the banks to occur.	<input type="checkbox"/>	<input type="checkbox"/>

Remember if no consent is required you must construct and operate the crossing in accordance with the Permitted Activity Standards.