

TECHNICAL APPENDIX 7.3

Water Crossing Schedule



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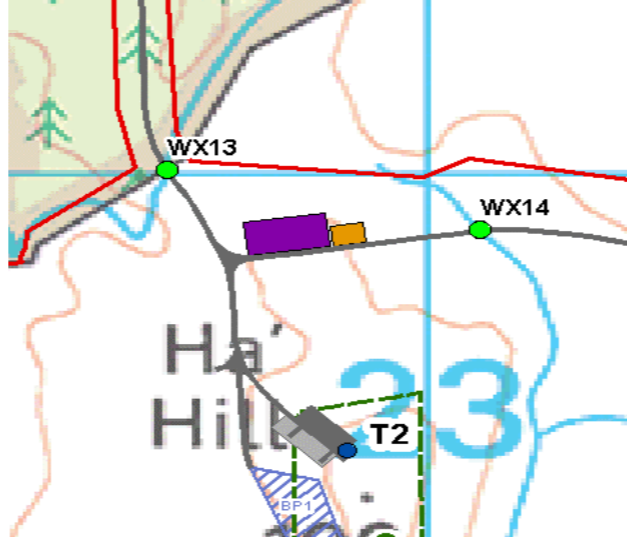


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Appendix 7.3 Water Crossing Schedule

1 Introduction

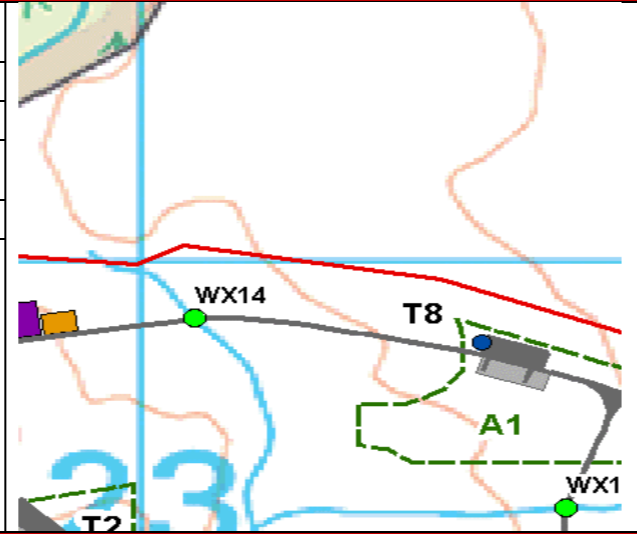
- 1.1.1 Some of the proposed access tracks to turbines would require new watercourse crossings to be constructed. Nine proposed new water crossings are proposed, with one existing crossing, on the farm track in the south east of the Site, requiring to be upgraded. Eleven existing water crossings on the track through the Operational Kilgallioch Windfarm would be unchanged.
- 1.1.2 Relevant information for each proposed water crossing is provided in **Table 7.3.1** below, together with a note of the proposed crossing type to be constructed, a map extract showing the crossing location (do not scale), and photographs of selected watercourses. Detailed design of all crossings would be undertaken in consultation with Scottish Environment Protection Agency (SEPA) and the relevant regulatory authorities and would be agreed prior to construction.

2 Water Crossing Schedule

Water Crossings 1 to 11			
Existing crossings, part of Operational Kilgallioch Windfarm. No changes required.			
Water Crossing 12			
Location Description	Recently felled area north of main body of the Site		
Grid Co-ordinates	222555, 571749		
Watercourse	Minor tributary of the Tarf Water		
Description	Small ditch		
Catchment	Tarf Water		
Crossing Type	New pipe culvert, sized to allow continuous flow		
Water Crossing 13			
Location Description	Crossing the Back Burn into the main body of the Site from the north west		 
Grid Co-ordinates	222685, 571005		
Watercourse	Back Burn		
Description	Largest new water crossing onsite. Watercourse is variable, sometimes wide and boggy with peat locally evident on the banks. Crossing point selected at a narrow point and to minimise ecological impacts. Burn is narrow and fast-flowing, estimated maximum channel section at this location to be 0.5 m x 0.5 m.		
Catchment	Tarf Water		
Crossing Type	Open arch/bridge, sized to allow continuous flow		

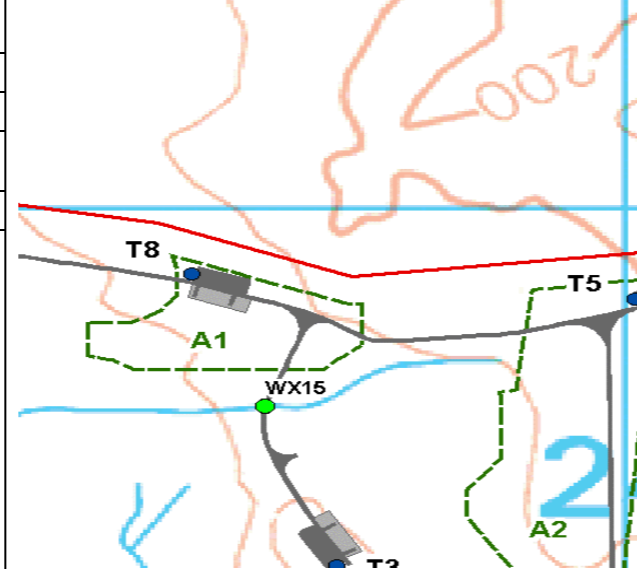
Water Crossing 14

Location Description	Between operations building and Turbine 8 in the north west of the Site
Grid Co-ordinates	223064, 570916
Watercourse	Minor tributary of Ha' Hill Strand
Description	Narrow ditch, fairly boggy either side. Estimated 0.3 m x 0.3 m maximum.
Catchment	Tarf Water (via Ha' Hill Strand)
Crossing Type	New pipe culvert, sized to allow continuous flow



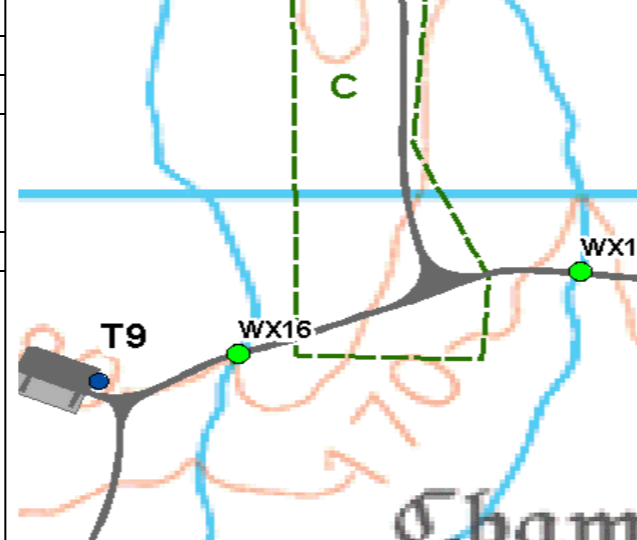
Water Crossing 15


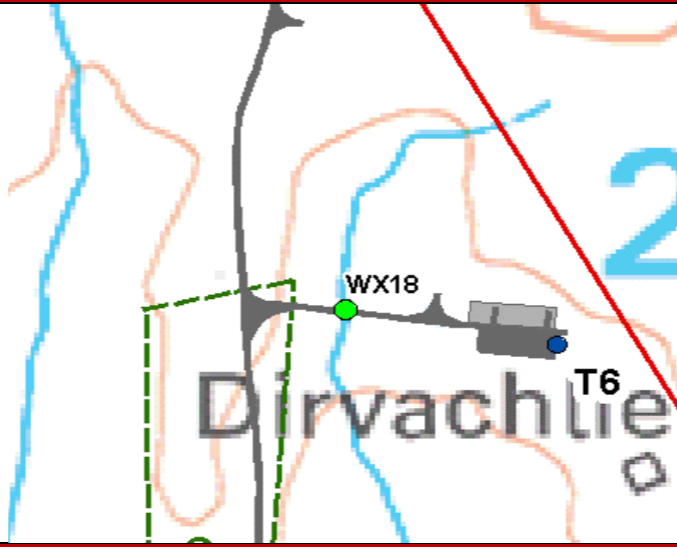


Location Description	Track leading to Turbine 3 from the north
Grid Co-ordinates	223504, 570639
Watercourse	Minor tributary of Ha' Hill Strand
Description	Small ditch, covered over with vegetation and difficult to notice.
Catchment	Tarf Water (via Ha' Hill Strand)
Crossing Type	New pipe culvert, sized to allow continuous flow



Water Crossing 16

Location Description	East of Turbine 9
Grid Co-ordinates	224368, 569809
Watercourse	Monandie Burn
Description	Small burn, estimated 0.3 m x 0.3 m maximum (photograph is ~700 m upstream of crossing point). Surrounding area is boggy.
Catchment	Tarf Water
Crossing Type	New pipe culvert, sized to allow continuous flow



Water Crossing 17			
Location Description	Between Turbine 9 and Turbine 11		
Grid Co-ordinates	224215, 569384		
Watercourse	Monandie Burn		
Description	Same watercourse as WX17, slightly downstream. Small burn, quite boggy on approach, approximately 300 m from the Tarf Water.		
Catchment	Tarf Water		
Crossing Type	New pipe culvert, sized to allow continuous flow		
Water Crossing 18			
Location Description	Track leading east to Turbine 6		
Grid Co-ordinates	224620, 570401		
Watercourse	Loch Strand		
Description	Watercourse is very small at this point, difficult to identify within surrounding vegetation.		
Catchment	Tarf Water		
Crossing Type	New pipe culvert, sized to allow continuous flow		
Water Crossing 19			
Location Description	West of Turbine 1		
Grid Co-ordinates	224711, 569907		
Watercourse	Loch Strand		
Description	Same watercourse as WX18, slightly downstream. Burn is slightly larger than at WX18 point but is still shallow and narrow (photograph is ~180 m upstream of crossing point).		
Catchment	Tarf Water		
Crossing Type	New pipe culvert, sized to allow continuous flow		


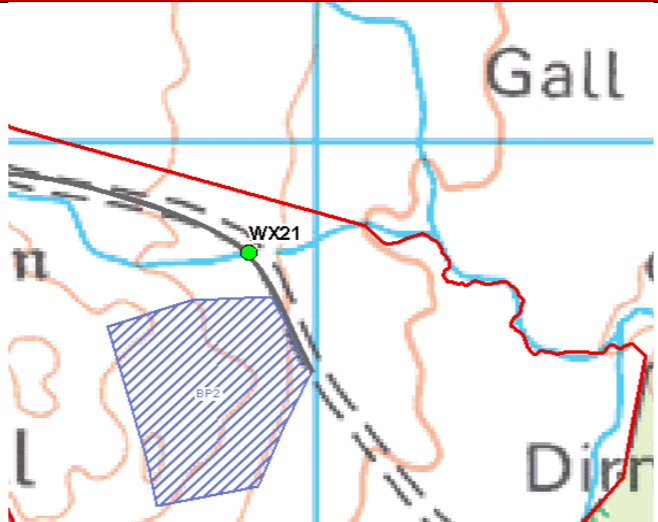
Water Crossing 20	
Location Description	Track leading towards Turbine 1 from the south east
Grid Co-ordinates	225007, 569387
Watercourse	Tributary of Loch Strand
Description	Within High Eldrig enclosure. A fording point is upstream, which appears to be used by the farmer. The watercourse is fairly small and straight (photographs are ~50 m upstream and ~300 m downstream of crossing point).
Catchment	Tarf Water (via Loch Strand)
Crossing Type	New pipe culvert, sized to allow continuous flow
	
Water Crossing 21	
Location Description	On existing track leading into the Site from the south east.
Grid Co-ordinates	225908, 568833
Watercourse	Tributary of March Burn
Description	Small ditch, not very distinct. Existing piped culvert.
Catchment	Black Burn
Crossing Type	Existing piped culvert will need to be extended to accommodate track widening. Detailed design to include consideration of increased culvert size given anecdotal reports of flooding of the track in this area.
	

Table 7.3.1: Water Crossing Schedule



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