

Denny to Wishaw Network Upgrade

Environmental Impact Assessment Report

Volume 3 Appendices

Appendix 9.2 Watercourse Crossings

May 2026



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Volume 3, Appendix 9.2 Watercourse
Crossings



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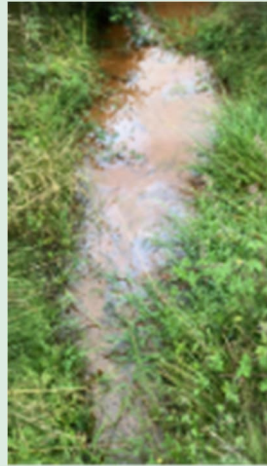
Appendix 9.2 Watercourse Crossings

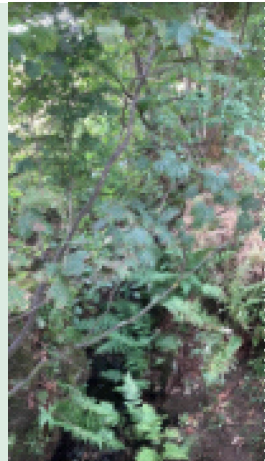
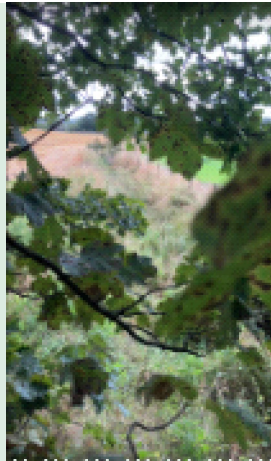
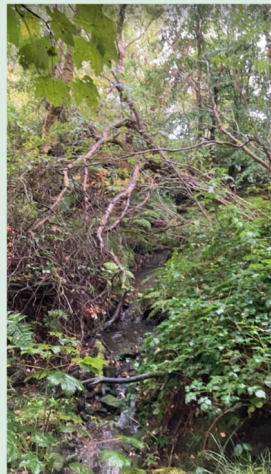
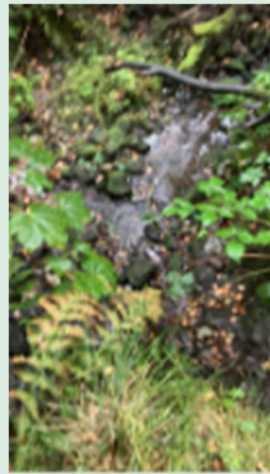
1.1 Introduction

This appendix details the existing and proposed watercourse crossings within the study area, following field and desktop surveys.

Mapping of watercourse crossings was undertaken using Geographic Information Systems (GIS) software at the intersections of mapped watercourses on Ordnance Survey 1:50,000 scale mapping. A walkover survey was undertaken on 27-29 August 2025 to identify approximate dimensions, flow conditions, geomorphological characteristics and other features of the watercourses at the relevant locations. Table 8-1 details these features, with the National Grid Reference (NGR) and photographs provided where available.

Table 8-1 Watercourse Crossings

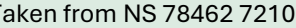
Crossing ID	Watercourse ID	Location (NGR)	Weather and Flow Conditions	Channel Form and Riverbed Material	Estimated Channel Width and Depth	Existing WCC and Morphological Impacts	Vegetation/ Habitat and Poaching	Proposed Crossing Type and Proposed Mitigation	Photograph Upstream	Photograph Downstream	Photograph of Riverbed
Cr1	RC1-1	NS 82409 84312	Dry, mild, overcast.	Artificial drainage channel.	Width 0.5 m Depth undetermined due to vegetation growth.	No visible crossing at assessment point.	Grass, moss and a few conifers.	New temporary culvert to be installed. To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			
			No Flow.	Riverbed material obscured by dense vegetation and limited access.			No evidence of poaching.				
									Taken from NS 82632 84347	Taken from NS 82632 84347	Taken from NS 82632 84347
Cr2	PB-5	NS 84130 83785	Dry, mild, overcast.	Artificial drainage channel.	Width 2 m Depth 2 m	Concrete culvert under road.	Grass, gorse, brambles and nettles.	Existing – none required.			
			No Flow.	Riverbed material obscured by dense vegetation and limited access.			No evidence of poaching.				
									Taken from NS 84141 83790	Taken from NS 84141 83790	Taken from NS 84141 83790

Cr3	RC2-1	NS 83931 81896	Dry, mild, overcast.	Artificial drainage channel.	Width 0.7 m Depth 1 m	Stone culvert under road.	Trees, ferns and grass.	Existing – none required.			
			No Flow.	Cobbles and vegetation.			No evidence of poaching.				
Cr4	UC (Union Canal)	NS 85246 80042	Rain, cold.	Artificial canal.	Width 6 m Depth 1.5 m	Tunnel to the South and rotating lock to the North.	Trees, grass.	Existing – none required.			
			Normal flow, normal energy.	Undetermined due to water level.			No evidence of poaching.				
Cr5	BW-6	NS 84490 78777	Rain.	Step-pool river.	Width 2 m Depth 1 m	Plastic culvert under road.	Trees, brambles, ferns.	New temporary culvert to be installed. To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			
			Moderate energy, moderate flow.	Cobbles and boulders.			No evidence of poaching.				
									Taken from NS 83931 81896	Taken from NS 83931 81896	Taken from NS 83931 81896
									Taken from NS 85246 80009	Taken from NS 85246 80009	Taken from NS 85246 80009
									Taken from NS 84518 78783	Taken from NS 84518 78783	Taken from NS 84518 78783

Cr6	BW-6	NS 84489 78762	Rain.	Artificial drainage channel.	Width 1 m	No visible crossing at assessment point.	Grass.	New temporary culvert to be installed.			
			No flow.	Riverbed material obscured by dense vegetation and limited access.	Poaching likely as in pasture field.		To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.				
			Taken from NS 84523 78756				Taken from NS 84523 78756				
Cr7	BW-9	NS 82980 78350	Rain.	Artificial drainage channel.	Width 1 m	No visible crossing at assessment point.	Grass, ferns, trees.	New temporary culvert to be installed.			
			No flow.	Boulders and vegetation.	No evidence of poaching.		To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.				
			Taken from NS 83204 78404				Taken from NS 83204 78404				
Cr8	BW-10	NS 82573 77942	Dry, overcast.	Artificial drainage channel.	Width 0.5 m	No visible crossing at assessment point.	Reeds, gorse, grass, ferns.	New temporary culvert to be installed.			
			No flow.	Riverbed material obscured by dense vegetation and limited access.	Poaching likely as in pasture field.		To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.				
			Taken from NS 82879 77296				Taken from NS 82879 77296				
Cr9	BW-1	NS 83256 77325	N/A	Artificial drainage channel.	Width <1m Depth unknown.	No visible crossing on arial imagery.	Aerial imagery shows trees and	New temporary culvert to be installed.	No associated photographs		

							agricultural fields.	To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			
Cr10	BW-11	NS 82176 77255	Overcast, mild.	Artificial drainage channel.	Width 2 m Depth 1 m	No visible crossing at assessment point.	Grass, gorse, thistles.	Existing – none required.			
			No flow.	Riverbed material obscured by dense vegetation and limited access.							
									Taken from NS 82171 77286	Taken from NS 82171 77286	Taken from NS 82171 77286
Cr11	BW-11 (Skipperton Burn)	NS 82171 77056	Overcast, mild.	Artificial drainage channel.	Width 1.5 m Depth 1.5 m	Not confirmed if there is an existing crossing at crossing point.	Grass, ferns, gorse.	Existing – none required.			
			No flow.	Riverbed material obscured by dense vegetation and limited access.							
									Taken from NS 82207 77060	Taken from NS 82207 77060	Taken from NS 82207 77060
Cr12	BW-11 (Skipperton Burn)	NS 82279 76829	N/A	Artificial drainage channel.	Width 1 m Depth unknown.	No visible crossing on aerial imagery.	Aerial imagery shows grass and forestry land.	New temporary culvert to be installed. To be constructed during dry period where possible, and flow over pumped where		No associated photographs	

Cr13	BW-11 (Skipperton Burn)	NS 82024 76715	Overcast, mild.	Artificial drainage channel.	Width 0.5 m Depth 0.5 m	No visible crossing at assessment point.	Grass, nettles, trees.	necessary to mitigate contamination.			
			No flow.	Riverbed material obscured by dense vegetation and limited access.			No evidence of poaching.	To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			
Cr14	BW-12 (Walton Burn)	NS 80699 75823	Overcast, hot.	Bedrock channel.	Width 0.8 m Depth 1.2 m	No visible crossing at assessment point.	Grass, trees, gorse.	New temporary culvert to be installed.			
			Low energy, low flow.	Low gradient passively meandering.			No evidence of poaching.	To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			
				Gravel, cobbles, vegetation.							
Cr15	BW-27 (Glencryan Burn)	NS 78116 73877	Rain.	Bedrock channel.	Width 1.5 m Depth 0.4 m	Not confirmed if there is an existing crossing at crossing point.	Trees, ferns, moss.	New temporary culvert to be installed.			
			Low flow, moderate energy.	Boulders, cobbles, bedrock.			No evidence of poaching.	To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			
									Taken from NS 81958 76775	Taken from NS 81958 76775	Taken from NS 81958 76775
									Taken from NS 80602 75858	Taken from NS 80602 75858	Taken from NS 80602 75858
									Taken from NS 776237 397615	Taken from NS 776237 397615	Taken from NS 776237 397615

Cr16	LW-13	NS 78250 71828	Rain, cold.	Bedrock channel.	Width 1 m Depth 0.8 m	Culvert under road.	Grass.	New temporary culvert to be installed.			
			Low flow, low energy.	Low gradient passively meandering.		Not confirmed if there is an existing crossing at crossing point.	Poaching likely as in pasture field.	To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			
				Riverbed material obscured by dense vegetation and limited access.							
Cr17	LW-7	NS 76670 70665	N/A	Bedrock channel.	Width 1.5 m Depth unknown.	Existing road crossing.	Aerial imagery shows trees and agricultural fields.	Existing – none required.			
				Potentially low gradient passively meandering.							
Cr18	LW-4 (Shank Burn)	NS 76100 69946	Rain, cold.	Bedrock channel.	Width 3 m Depth 4 m	Walled banks and bridge.	Trees, ferns.	New temporary culvert to be installed.			
			Moderate.	Bedrock, cobbles.		Not confirmed if there is an existing crossing at crossing point.	No evidence of poaching.	To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			

Cr19	NCW1 (North Calder Water)	NS 79044 65898	Overcast, mild.	Low gradient passively meandering.	Width 4 m Depth 1 m	Not confirmed if there is an existing crossing at crossing point.	Grass, reed, trees.	Existing – none required.			
			Normal flow, moderate energy.	Boulders.	No evidence of poaching.						
							Taken from NS7891165794	Taken from NS7891165794	Taken from NS7891165794		
Cr20	SB-10	NS 75005 68257	N/A	Agricultural drainage channel.	Width <1m Depth unknown.	Existing road crossing.	Aerial imagery shows to be in an agricultural ditch.	New temporary culvert to be installed.	<i>No associated photographs</i>		
								To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			
Cr21	ShirrelB (Shirrel Burn / Thankerton Burn / Legbranock Burn)	NS 79065 60676	Sunny, dry.	Artificial drainage channel.	Width 2.5 m Depth 1 m	Existing road crossing.	Trees, grass.	New temporary culvert to be installed.			
			No flow.	Riverbed material obscured by dense vegetation and limited access.	No evidence of poaching.		To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.				
								Taken from NS7872660748	Taken from NS7872660748	Taken from NS7872660748	

Cr22	TB (Tillan Burn)	NS 80243 60164	Sunny, dry, hot.	Low gradient passively meandering.	Width 1 m Depth 1 m	No visible crossing at assessment point.	Grass, trees. Poaching likely as in pasture field.	New temporary culvert to be installed. To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			
			Low flow, low energy.	Gravel, sand.							
									Taken from NS8024060210	Taken from NS8024060210	Taken from NS8024060210
Cr23	AW-9	NS 84747 56901	Sunny, dry.	No watercourse identified at location.	Unknown.	No visible crossing at assessment point.	Grass, reeds. No evidence of poaching.	New temporary culvert to be installed. To be constructed during dry period where possible, and flow over pumped where necessary to mitigate contamination.			
			No flow.								
									Taken from NS8474556898	Taken from NS8474556898	Taken from NS8474556898
Cr24	AW (Auchter Water)	NS 83511 54989	Sunny, dry.	Low gradient passively meandering.	Width 1.5 m Depth 1.5 m	Bridge at road. Aerial imagery shows there to be an existing crossing at crossing point.	Trees, grass, nettles. No evidence of poaching.	Existing – none required.			
			Low flow, low energy.	Gravel, boulders.							
									Taken from NS8329354932	Taken from NS8329354932	Taken from NS8329354932