



# Technical Appendix: Schedule of Watercourse Crossings

## Dupplin Solar EIA Report

### TRIO Dupplin Solar LLP

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## Basis of Report

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## 1.0 Introduction

SLR Consulting Limited (SLR) has been appointed by TRIO Dupplin Solar LLP to provide consulting services to support a Section 36 application for a proposed solar photovoltaic (PV) array development ('the Proposed Development') within Dupplin Estate, north of the A9, in Tibbermore, Perth.

This technical appendix presents photographs and dimensions for proposed watercourse crossing points as shown on the 1:10,000 Ordnance Survey (OS) mapping. The report also details the likely form of the new track crossing solutions (e.g., culvert, arch culvert, or bridge). The final design of each crossing solution would be agreed with the Scottish Environment Protection Agency (SEPA) prior to construction as part of the detailed site design.

A survey of the proposed new watercourse crossings was undertaken in October 2025 by experienced SLR hydrologists.

The locations of the watercourse crossings are shown in **Figure 8.1** of the Section 36 application and details of the hydrological setting of the Proposed Development are outlined in **Chapter 8** of the Environmental Impact Assessment (EIA) Report.

### 1.1 Relevant Legislation

The Water Framework Directive (2000/60/EC) (WFD) has been transposed into Scottish legislation as the Water Environment and Water Services (Scotland) Act 2003 (or WEWS) and has given Scottish ministers powers to introduce regulatory controls over activities in order to protect and improve Scotland's water environment. The water environment includes wetlands, rivers, lochs, transitional waters (estuaries), coastal waters and groundwater.

These regulatory controls, previously known as the Water Environment (Controlled Activities) (Scotland) Regulations 2011 (CAR) came into force in 2011 and have since been amended in 2013, 2017, and 2021. In November 2025, the Environmental Authorisations (Scotland) Regulations (EASR)<sup>1</sup> was extended to include water activities and will replace the CAR regulatory regime.

With respect to watercourse crossings, EASR outlines that engineering activities (except culverting for land-gain, dredging and permanent diversions or realignments) on minor watercourses do not require an authorisation<sup>2</sup>. A minor watercourse is one that is not shown on the 1:50,000 scale Ordnance Survey maps (Landranger series).

The EASR authorisation process for watercourse crossings<sup>3</sup> operates under several authorisations:

- General Binding Rules (GBR6):
  - installation crossing a watercourse or loch where:
    - a crossing where no part of the crossing is on the bed or banks of a river, burn, ditch or loch.
- General Binding Rules (GBR7):

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<sup>1</sup> Scottish Government (2018) Environmental Authorisations (Scotland) Regulations (EASR)

<sup>2</sup> Details on activities that do not require an authorisation, available online at [Activities that do not require an authorisation | Beta | SEPA | Scottish Environment Protection Agency](#)

<sup>3</sup> Details on activities that involve the installation of a crossing to a watercourse and the authorisation required, available online at [Crossings | Beta | SEPA | Scottish Environment Protection Agency](#)





- installation of temporary crossings, structures or works where:
  - temporary crossings and temporary structures in a river, burn, ditch or loch; or
  - any temporary works associated with the undertaking of any other activity specified in this GBR or for the purpose of maintaining an existing man-made structure in a river, burn, ditch or loch.
- Registration (EASR-SC-054):
  - installation of a crossing across a watercourse or loch where:
    - a crossing where no part of the crossing is on the bed; and
    - part of the crossing is on the bank, and the total cumulative length of all banks is less than or equal to 50 m.
- Registration (EASR-SC-055):
  - installation of a crossing (excluding crossings with piers, causeways and fords) across a watercourse that has a bed width of 2 m or less, or a loch where:
    - part of the crossing is on the bed;
    - the total cumulative length of channel affected is less than or equal to 15 m; and
    - the total cumulative length of all banks affected is less than or equal to 50 m.
- Permit:
  - installation of all other crossings across a watercourse or loch (this includes all fords, causeways and bridges with piers). This includes:
    - installation of a new permit level crossing (those that do not meet the registration or GBR activity thresholds);
    - alteration of an existing permit level crossing which does not meet the maintenance criteria;
    - removal of an existing permit level crossing; and
    - installation or removal of a crossing which cannot comply with GBR or registration standard conditions.




## 2.0 Watercourse Crossing Details

Review of 1:10,000 scale OS mapping indicates that two new permanent watercourse crossings are required to establish the Proposed Development. It is noted that no watercourse crossings are shown on the 1:50,000 scale OS mapping.

Watercourse Crossing ID	WXC01
Watercourse Crossing Details	<p><b>National Grid Reference:</b> NO 05057 21970</p> <p><b>Status:</b> New</p> <p><b>Watercourse Width:</b> N/A</p> <p><b>Watercourse Depth:</b> N/A</p> <p><b>Notes:</b> No flowing water was recorded during the survey. Watercourse comprises of a drainage channel which is approximately 1 m wide and 1 m deep.</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
Potential Crossing Type Likely Authorisation	<p>Bottomless arch culvert or equivalent                      GBR</p>



Watercourse Crossing ID	WXC02
Watercourse Crossing Details	<p><b>Grid Reference:</b> NO 04116 21871</p> <p><b>Status:</b> New</p> <p><b>Watercourse Width:</b> N/A</p> <p><b>Watercourse Depth:</b> N/A</p> <p><b>Notes:</b> No flowing water was recorded during the survey. Watercourse comprises of a drainage channel which is approximately 0.5 m wide and 0.3 m deep.</p>
Photograph Looking Upstream	
Photograph Looking Downstream	
Potential Crossing Type Likely Authorisation	<p>Bottomless arch culvert or equivalent                      GBR</p>



### 3.0 Summary and Recommendations

Two new watercourse crossings are required to establish the Proposed Development, the locations of which are shown on **Figure 8.1** of the Section 36 application.

As stated in the **Chapter 8** of the EIA Report new crossings would be designed to pass the 200-yr flood event plus an allowance for climate change. Crossing design and construction details would be agreed with SEPA and Perth and Kinross Council as part of the final CEMP.

Good practice methods which will be adopted during construction and operation of the Proposed Development are outlined in **Chapter 8** of the **EIA Report**.





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