

Form WRE: Application for a new impoundment licence, technical variation to an impoundment licence or the removal of an existing impoundment

Reference number (The number you generated in form WRA). Example: WRNATURALRESOURCESWALES1101

WRWELSHDEETRUST0103

Are you applying for a licence for a new impoundment or an existing impoundment

removal of an impoundment

Impoundment details

All information should correspond with any maps and drawings submitted with this application

	Impoundment location name/reference	Left bank National Grid Reference	Right bank National Grid Reference
	Felin Puleston weir	SJ 32570 49301	SJ 32561 49298
	-	-	-
	-	-	-

Provide details about the type of impoundment you propose to construct at the points specified above and how the works will operate. This should include a description of any existing works and how your proposal will affect the flow of inland water.

Tell us the purpose of the works. If the water is to be impounded for more than one purpose, list both the primary and secondary purpose

Works to remove redundant weir to improve fish passage and restore more natural river function. The stepped concrete weir will be removed, along with gabion walling to the left bank. The channel will be widened, maintaining a low flow channel, with a series of four bed check structures (3 of which are referred to as rapids in the attached design documentation) to ensure river bed upstream remains stable. Following works, trees will be planted on both banks to help stabilise and protect. Additional detail on construction is included in the attached method statement and risk assessment.

Description of impoundment

Name of watercourse

Clywedog (Wrexham)

Will your proposed impoundment result in a change to the submerged area (downstream) or new submerged areas behind (upstream of) the impounding works?
(If yes, ensure this is shown on any map or drawings submitted)

No

Will the ponded area created by the impoundment be lined?

No

Give the height of the impoundment structure, from the downstream toe to crest or top of spillway (in metres above Ordnance Datum). If the proposal involves an existing impoundment, state the change in height (in millimetres).

1300mm - Full removal but bed check structures retain bed height upstream

What is the overflow or crest level of the impoundment (in metres above Ordnance Datum)?

71.3 m a.o.d. (existing)

Will the proposal create a raised reservoir?

(A raised reservoir is one where water is stored at a level above the natural level of the lowest level of the surrounding area.)

No

What is the proposed capacity of the impoundment when full to spillway level (in cubic metres)?

0

Does the proposal involve the controlled release of water to safeguard downstream flows?

This could be the release of flood attenuation flows, reservoir compensation flows or a residual flow via a notch or orifice.

No

Is the impounded water to be used for a subsequent purpose?

No

How will the impounded area be filled initially, and subsequently refilled if applicable?

Example: by rainwater, overland flow or pumped from another source.

Impoundment is being removed.

Fish and eel passage

Confirm the fish species present at your site.

Electrofishing surveys upstream of the weir only revealed brown trout present, although downstream of the weir, along with brown trout, a single European eel and several stone loach were found.

Please confirm type of fish screen

Intake n/a

Outfall n/a

Please confirm screen height and width - intake (millimetres)

Width n/a

Height n/a

Please confirm screen height and width - outfall (millimetres)

Width n/a

Height n/a

Please confirm screen aperture size (millimetres)

Intake n/a

Outfall n/a

Please confirm type of upstream fish/eel passage intake

Natural

Please confirm type of downstream fish/eel passage

Natural

Please confirm proposed flow for fish pass

Natural

Construction, maintenance and operation

Provide details of maintenance or activities relating to the operation of the impoundment. Include the extent and frequency of activities. This could include the operation of scour valves or maintenance of a fish pass.

Describe any sediment management plan associated with the impoundment.

Impoundment is to be removed and natural processes, as far as possible, encouraged across the widened channel. Land on both sides of the weir is owned by National Trust.
Construction risk assessment, method statement and bill of quantities are uploaded.
Email consultation with Clwyd and Powys Archeological Trust (CPAT) attached (although in text format as unable to upload Outlook item).

Upload documents here

- File: Designers Risk Register Felin Puleston Weir v1.0 _Nov2022_Issued.pdf - [Download](#)
- File: Felin Puleston Weir Method Statement v1.0_Nov2022_Issued.pdf - [Download](#)
- File: CPAT email Re Felin Puleston weir.txt - [Download](#)
- File: Felin Puleston Weir BoQ v1.0_Nov2022_Issued.pdf - [Download](#)

Do you intend to divert the flow of the inland water while you are building, changing or removing the impounding works?

Yes

How do you intend to divert the flow of the inland water while you are building, changing or removing the impounding works. Give details.

Flow will be temporarily diverted to enable a dry working area. Cofferdam will be used to enable working from one bank at a time, see attached method statement.

Proposed Design of Structure

Upload design drawings and calculations here. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)

- File: Clywedog Felin Puleston Weir_Design_Drawings sheet1 WDT clarification.jpg - [Download](#)
- File: Clywedog Felin Puleston Weir_Design_Drawings sheet4 WDT clarification.jpg - [Download](#)
- File: Clywedog Felin Puleston Weir_Design_Drawings sheet6 WDT clarification.jpg - [Download](#)
- File: Felin Puleston Weir Optioneering and Design Report v1.0 Nov2022_Issued.pdf - [Download](#)
- File: Clywedog Felin Puleston Weir_Design_Drawings_v1.0_Nov22_Issued.pdf - [Download](#)

Please upload your stage 1 geomorphology photosurvey. Find out more on how to complete your survey on our Geomorphology Photosurveys for Hydropower developments page

- File: Geomorphology Survey reduced.pdf - [Download](#)

Other permissions

Planning permission advice received?

Yes

Is planning permission required?

Yes

What is the status of the planning permission?

Not Submitted

Have you applied for or do you hold a Flood Risk Activity Permit (FRAP) for the proposed works?

No

Commercial confidentiality and national security

Are you applying for Commercial Confidentiality?

No

Have you applied to the Welsh Ministers for national security for your application?

No

Declaration

By signing below, you are declaring that, to the best of your knowledge; the information given in this form, on any map and in any supporting or additional information; is true.

Signed G.H.Evans
Print name Gareth Huw Evans
Position Company Secretary

Date

* 12/03/2024

Would you like a copy of your submission?

Yes

Your email address

chris@welshdeetrust.com