

# 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

WRNATURALRESOURCESWALES2705

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
	Cribynau Weir	SN 94441 85520	SN 94433 85507
	-	-	-
	-	-	-

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

The project aims to improve fish passage by removing a redundant weir and associated structures on the River Clywedog, Powys. The weir was previously used for gauging but is no longer in use. These works will provide access to 3.5km of suitable spawning and juvenile salmonid habitat.

The 15m wide, 2m high weir to be removed is a concrete broad crested/ crump weir built in the late 1950s and with no known current impoundment licence.

The proposed design involves 4 elements:

- (1) Removal of existing concrete weir, walls and base to reduce residual barriers to fish passage.
- (2) Localised channel levelling, with limited stream reprofiling upstream to enable construction
- (3) Localised regrading and reinforcement of banks. It is anticipated that most of the weir channel will mostly comprise bedrock, but some scour protection may be required.
- (4) Removal of Gabion Baskets upstream of the weir

The weir is a concrete crump weir and is no longer in use. Its removal has been shown not to increase downstream flood risk. More details are given in the design philosophy and flood consequence assessments appended to this WRE and the WRA form.

Please also refer to the attached drawings and documents, including the Design Philosophy, for further information.

## Description of impoundment

Name of watercourse

Afon Clywedog

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).

Structure to be removed

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

Structure to be removed

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)?

N/A

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.

N/A - existing impoundment (weir) being removed.

## Fish and eel passage

Confirm the fish species present at your site.

Salmon, brown trout, eels, minnow, bullhead

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

Open channel

Please confirm type of downstream fish/eel passage

Open channel

Please confirm proposed flow for fish pass

Natural area average flow velocity

## 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.

No maintenance of the structure will be required following the works as the weir and associated gauging structures are being removed entirely. The stability of the banks may require ongoing monitoring for bankside erosion following large storm events to ensure there are no adverse effects. This is currently being reviewed with consultants.

Sediment and pollution control measures will be place at all times when the works are taking place.

Sampling of the sediment is currently being undertaken, which will allow determination of the waste classification for reuse.

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.

Temporary works for in river working have yet to be identified by the contractor, however it is likely that temporary works using sandbags, legato blocks or similar will be used to create a dry working area for demolition. This will either cover the whole river and require overpumping or half the river and then be switched over. Sediment and pollution control measures will be in place at all times. Temporary works to support the existing banks during demolition will be required.

## Proposed Design of Structure

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

- File: 290013-ARP-IZ-CL-DR-ZX-0001.pdf - [Download](#)
- File: 290013-ARP-IZ-CL-DR-ZX-0002.pdf - [Download](#)
- File: 290013-ARP-IZ-CL-DR-ZX-0003.pdf - [Download](#)
- File: 290013-ARP-IZ-CL-DR-ZX-0004.pdf - [Download](#)
- File: 290013-ARP-CP-CL-RP-CX-0001 Design Philosophy.pdf - [Download](#)
- File: 277161 - ARP - 10 - XX - RP - XX - 1001 Clywedog Geomorphology Report.pdf - [Download](#)
- File: 290013-ARP-XX-CL-RP-NX-0001 WFD.pdf - [Download](#)
- File: 290013-ARP-XX-CL-RP-NX-0002 EAP.pdf - [Download](#)
- File: Clywedog topo survey.pdf - [Download](#)
- File: 290013-ARP-CP-CL-RP-CX-0002 FCA.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: 290013-ARP-CP-CL-PH-CX-0001.pptx - [Download](#)

## Other permissions

Planning permission advice received?

No

Is planning permission required?

No

What is the status of the planning permission?

Not required

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** Gavin Bown

**Print name** Gavin Bown

**Position** Head of Mid Wales Operations

Date

\* 11/07/2022

Would you like a copy of your submission?

Yes

Your email address

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