

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

WRWELSHWATERBM1709

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

removal of an impoundment

Impoundment detailsAll 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
	Brithdir Mawr Reservoir	SJ1791462707	SJ1789262632
	-	-	-
	-	-	-

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

Discontinuance of Brithdir Mawr Reservoir by the removal of the main embankment dam.

This reservoir is no longer required as part of Dwr Cymru Welsh Water's (DCWW) water resources. The reservoir in its current form presents a significant inundation flood risk in the event of dam failure. If the reservoir is to be retained extensive remedial and improvement works will be required to the dam to satisfy current reservoir safety standards and to ensure ongoing compliance with the Reservoirs Act 1975. The preferred option for this reservoir is to remove the dam which will result in the full discontinuance of the reservoir.

Description of impoundment

Name of watercourse

Aber Eilun

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).

8700

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

244.2 mAOD

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 - zero storage

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 - removal of an existing impoundment.

Fish and eel passage

Confirm the fish species present at your site.

Ecological Assessment Report from 2019 states: 'Data returned from COFNOD did not include any records for fish within 2km of the site. The reservoir is not known to stock fish, however as a large waterbody well connected via channels upstream and downstream, there is the potential that fish such as common minnow, *Phoxinus phoxinus*; stickleback, *Gasterosteidae*; eel, *Anguilliformes* or roach, *Rutilus rutilus* could be present.' The Report concludes that 'The [discontinuance] proposals have potential for improvements for fish in terms of fish passage.'

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

Removal of the dam will remove a potential barrier to fish / eel passage

Please confirm type of downstream fish/eel passage

Removal of the dam will remove a potential barrier to fish / eel passage

Please confirm proposed flow for fish pass

Removal of the dam will remove a potential barrier to fish / eel passage

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.

The discontinuance works will commence with lowering of the reservoirs by the controlled release of water using the existing low-level outlet valve. This will be carried out taking appropriate precautions to prevent the movement of silt downstream.

Once the reservoir has been emptied silt along the route of the original watercourse, through the reservoir basins, will be pumped into silt tubes laid either side, and following the route of the new reinstated watercourse, set back from the watercourse. Coir rolls and matting will be used to contain the silt as it dewater and stabilises. The retained silt will be allowed to revegetate naturally.

Throughout the execution of the discontinuance works incoming flows will be diverted around the reservoir basin using large diameter twinwall plastic pipes. The flows will be discharged into the existing spillways until completion of discontinuance. The spillways will be the last structures to be removed.

Upload documents here

- File: Brithdir Mawr Reservoir - Discontinuance Option Details.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.

Throughout the execution of the discontinuance works incoming flows will be diverted around the reservoir basin using large diameter twinwall plastic pipes. The flows will be discharged into the existing spillways until completion of discontinuance. The spillways will be the last structures to be removed.

Proposed Design of Structure

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

- File: Brithdir Mawr Reservoir - GIS Plan.pdf - [Download](#)
- File: Brithdir Mawr Reservoir - Land Plan.pdf - [Download](#)
- File: Brithdir Mawr Reservoir - Discontinuance Option Details.pdf - [Download](#)
- File: Brithdir Mawr - Photo Record.pdf - [Download](#)
- File: 190329 Brithdir Mawr Discontinuance - Flood Assessment [Appendix 4].pdf - [Download](#)
- File: 190329 Brithdir Mawr Discontinuance - Engineering Details [Appendix 8].pdf - [Download](#)
- File: 210902 Brithdir Mawr Scheme Summary v2 [NRW].pdf - [Download](#)
- File: Brithdir Mawr Reservoir - Water Framework Directive report.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: DCWW Brithdir Mawr - Photo Record [text file].txt - [Download](#)

Other permissions

Planning permission advice received?

Yes

Is planning permission required?

No

What is the status of the planning permission?

Not required

Planning permission reference

Confirmed as Permitted Development

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

Would you like a copy of your submission?

Yes

Your email address

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