

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

WRCardiffcouncil2211

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

a new 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
	Pentwyn Lake ST 20645 80749	ST 20645 80749	ST 20863 80636
	-	-	-
	-	-	-

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

Lake has been created by excavation and lining with a butyl liner. There is a dam constructed in concrete, at the western end of the lake, with a wear as an outflow. The lake is used by local fishing clubs and is set within a community park. Water is fed into the lake from the adjacent Nant Glandulas.

Description of impoundment

Name of watercourse

NANT GLANDULAS

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)

Yes

Will the ponded area created by the impoundment be lined?

Yes

Give details on how the ponded area created by the impoundment be lined.

The lake is lined with a butyl liner

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).

1.1m

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

10.32

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)?

3800m³

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.

Yes

Tell us what the proposed flow at the outlet will be and how you intend to measure this. If the works involve monitoring of levels or flows, include details of this.

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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.

Topped up with water from Nant Glandulais

Fish and eel passage

Confirm the fish species present at your site.

Carp

Please confirm type of fish screen

Intake Grill

Outfall Grill

Please confirm screen height and width - intake (millimetres)

Width 450mm

Height 450mm

Please confirm screen height and width - outfall (millimetres)

Width N/A

Height N/A

Please confirm screen aperture size (millimetres)

Intake 14mm

Outfall N/A

Please confirm type of upstream fish/eel passage intake

Metal frame grid

Please confirm type of downstream fish/eel passage

Metal frame grid

Please confirm proposed flow for fish pass

0.0011m³/sec

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 site will be maintained by Cardiff Councils Parks department. Oxygen levels will be monitored on a weekly basis by parks rangers. Survey has been carried out by Cardiff Council to determine depth of silt at bottom of lake. This will be removed by suitable means.

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

No

Proposed Design of Structure

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

- File: Parc Y Nant_ 2022-17-SCL001_ B.pdf - [Download](#)
- File: ESP 8599.3920 - Pentwyn Lake (Draft).pdf - [Download](#)

Other permissions

Planning permission advice received?

No

Is planning permission required?

No

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.Whittington
Print name Geoff Whittington
Position Landscape Architect

Date

* 23/11/2023

Would you like a copy of your submission?

Yes

Your email address

geoffwhittington4@gmail.com