

Form WRD: Application for a new abstraction licence or a technical variation to an abstraction licence

Application type

Reference number (The number you generated in form WRA). Example: WRNATURALRESOURCESWALES1101
WRENGLOBE3006

Are there any applications currently being assessed by us that are linked to this application?
Yes

Is the proposed abstraction going to be aggregated with another existing abstraction?
No

Linked applications

Please confirm how this application is linked to the other application(s) Example: this application could be one of multiple abstractions and/or impoundment licence applications at the same site. The proposal could involve water rights trading, or this application could be linked to another application for a previously exempt activity. The abstraction consent is being requested for construction related activities to enable development of the Llanelli Wellness Village Zone 1 Pentre Arwel. Surface runoff and water from excavations will be recovered and treated under Environmental Permit (MTL) prior to discharge to groundwater at the site under consent.
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Linked application numbers
Environmental Permit EPR/AP3195FG Reinjection Pentre Arwel Effluent - - -

Are any applications, at the same site; being assessed by the Environment Agency?
No

Tell us when you want your abstraction licence to end: [DD/MM/YY]
01/03/2024

If you require a shorter or longer duration licence, please provide details and your justification

The license relates to construction activities that will be complete by this time. However, we have tried to be conservative with this estimate.

Abstraction details

Abstraction location name/reference

Pentre Awel Zone 1

Abstraction point type

Area

National Grid Reference

SS 50892 98582

Downstream National Grid Reference (If abstracting from a reach), or corners of the area.

SS 50945 98644

SS 50940 98511

SS 50804 98533

SS 50799 98628

Do you have any further points of abstraction?

No

Means of abstraction

Provide full details of the equipment you propose to use to abstract water, such as maximum pump capacity and any relevant dimensions, e.g. pipe diameter. For groundwater abstractions, include details about the borehole (depth and diameter) and details of screening and lining.

Pumping will be undertaken from open excavations using standard suction pumps. Details of the key excavation for the swimming pool are provided in the attached document.

If necessary, continue on a separate sheet and upload below.

- File: P23556_R1_HIA_Final.pdf - [Download](#)

Abstraction quantities

Abstraction location name/reference
Pentre Awel Zone 1

What purpose will the water be used for?
Excavation water control for construction. Water will be treated and returned to the aquifer

Period of abstraction Will it be all year?
No

Start Date: [DD/MM/YY]
01/09/2023

End Date: [DD/MM/YY]
01/03/2024

Maximum quantities (cubic metres)
Annual 156,680
Daily 432
Hourly 18

Peak abstraction rate (in litres per second)
5

Number of hours of abstraction per day
24

Add quantities for another location?
No

Calculations and supporting information

Use this section to show us how you have calculated the amount of water you require. This should include details of your operational regime (for example, number of hours and days you intend to abstract, number of units produced or area to be irrigated). We use this information to determine if the volumes you propose to abstract are appropriate for the purpose. Depending which industry you are in, you may need to provide additional information below.

If your proposal involves the provision of a residual flow via a notch or orifice, provide information on how this is being calculated. This should include details of the equation being used.

There is no requirement for a volume of water only that sufficient to control water in the excavations will be required. All water will be returned to the aquifer following treatment so there will be no net loss if water to the aquifer.

Very unlikely that the maximum quotes extraction rates will be achieved, abstraction required for specific and localised excavation works only for short term duration. Only 'worstcase' extraction volumes calculated.

Means of measurement

State how you intend to measure the quantity of water you abstract. You do not need to do this for a temporary or transfer licence.

Meter

Water efficiency

Provide details of what measures you provide or intend to implement, to ensure efficient use of water. This could include water storage, re-use or recirculation, monitoring and checking for leaks, undertaking water audits or other industry specific good practice.

Only sufficient water to control water ingress in the excavations will be abstracted. All water will be returned to the aquifer following treatment so there will be no net loss if water to the aquifer. Water will be directly pumped to a settlement lagoon and then directly to the treatment system which will be operated under a standard rules permit which requires the necessary management of the system including monitoring, maintenance and leak checking as detailed in the permit management controls.

Discharge details

If you intend to return any of the abstracted water to the environment, provide details below. Details of discharge location(s) should correspond with any maps submitted. Do not include discharges to a public sewage system.

	Discharge location name / reference	National Grid Reference of discharge point (12 digit)	Total volume to be discharged (cubic metres)	Environmental Permit for Water Discharge Activity number (if applicable)
	Pentre Awel Zone 1	SS 50946 98615	156,680	TBC (currently being applied for)
	-	-	-	-
	-	-	-	-
	-	-	-	-

Provide a description of the structure and equipment involved in discharge.

Dwr Cymru have refused a discharge top sewer for treated water on the basis of capacity and risk of sewer flooding. All water recovered will be discharged via infiltration back to the the aquifer. A discharged consent has been applied for.
The discharge structure will comprise 2 slotted 450 to 600 mm borehole casings to ~2 to 3 m bgl in an infiltration trench containing permeable clean graded material

Other abstractors / water users

Provide details of nearby abstractors or users of water who could be affected by your proposal. This should include deregulated users (exempt activities or abstractions < 20 cubic metres per day), anglers and canoeists.
Your local authority's environmental health will hold details of exempt domestic abstractors.

There are no abstractions with 40 m of the site which is the maximum calculated zone of influence. No other nearby abstractors or users of water will be affected by the proposal

Planning application

Have you sought advice on your planning 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 Julia Roberts
Print name Julia Roberts
position Managing Director / Company Secretary

If an agent is to sign on behalf of the Licence Holder, a letter of authorisation from the Licence Holder is required.

- File: National Resource Wales - Abstraction Permit Application - 07 06 23.pdf - [Download](#)

Date

* 30/06/2023

Would you like a copy of your submission?

Yes

Your email address

rhys.davies@englobecorp.com