

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

WRPYLE&KENFIGGOLFCLUB260325

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

No

Is the proposed abstraction going to be aggregated with another existing abstraction?

Yes (Please let us know the licence it will be aggregated with)

21/58/33/0010/R001

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]

20/03/2051

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

Pyle & Kenfig Golf Club have drafted a 25 year lease and therefore wish to have the abstraction for this term to match the Heads of Terms

Abstraction details

Abstraction location name/reference

Pyle & Kenfig Borehole 2 (NEW)

Abstraction point type

Single point

National Grid Reference

Borehole 2 - SS 80985 80285

Do you have any further points of abstraction?

Yes

Abstraction details - Further points

Abstraction location name/reference

Pyle & Kenfig - Borehole 1 - (EXISTING)

Abstraction point type

Single point

National Grid Reference

Borehole 1 - SS 80951 80235

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.

Both boreholes will be pumped by a designated groundwater abstraction pump at rates capable of pumping at 8m³ from Borehole 1 (existing) and at 12 m³ Borehole 2 (new).

Waters will be pumped and stored within an onsite above ground storage tank (500m³) located next to borehole 1. From here a separate pumping system will distribute the water across the golf course to tees, fairways and greens.

We understand that Borehole 1 is installed to a total depth of 40 m below ground level with the borehole installed with a pump capable of pumping at a maximum of 8m³ per hour and the borehole lining which we understand is screened within the Oxwich Head Limestone. As an existing borehole at site we understand these details to be correct.

Borehole 2 drilled to a total depth of 50 m below ground level. UPVC casing is installed to 50m comprising 0 - 10m of plain casing and 10 - 50 m slotted casing. Borehole is lined with a 200mm installation borehole liner.

Boreholes are both installed with 240v submersible borehole pumps which are capable of pumping at the rates as detailed within our pump test report. Boreholes will pump to the above ground storage tank which will have a float switch

Abstraction quantities

Abstraction location name/reference
Pyle & Kenfig Golf Club - Borehole 1 (Existing)

What purpose will the water be used for?
Golf Course Irrigation

Period of abstraction
Will it be all year?
Yes

Maximum quantities (cubic metres)
Annual 70,080
Daily 192
Hourly 8

Peak abstraction rate (in litres per second)
2.22

Number of hours of abstraction per day
24

Add quantities for another location?
Yes

Abstraction quantities - Another location

Abstraction location name/reference
Pyle & Kenfig - Borehole 2 (New)

What purpose will the water be used for?
Golf Course Irrigation

Period of abstraction Will it be all year?

Yes

Maximum quantities (cubic metres)

Annual 105,120

Daily 288

Hourly 12

Peak abstraction rate (in litres per second)

3.33

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.

The following is based on providing sufficient water to irrigate the full 18 hole golf course over a nightly 8 - hour cycle. Water will be pumped to a above ground 500m³ storage tank, from this tank the water will be pumped to the sites irrigation system and outcross the golf course covering tees, greens fairways and in addition practice area.

The maximum daily / nightly water requirement in order to cover the areas of the golf course will be:

Greens Putting Surfaces 91.05

Green Surrounds 4.10

Approaches 39.20

Fairways (close mown area) 288.32

Tees Playing Areas 57.32

Total Daily Max 480

Industry-specific requirements

For golf course irrigation

	Maximum area to be irrigated daily (hectares)	Maximum depth of water to be applied daily (millimetres)
Tees	57.32	-
Greens	95.15	-
Fairways	288.32	-
Others	39.20	-

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.

Other (please specify):

Boreholes are installed with a flow 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.

Water storage 500m³ tank is installed at site, boreholes pump directly to this tank. From here a separate system of pumps and bespoke drainage pipes are installed across the P&K Golf Course

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.

N/A

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 M Willis
Print name Michael Willis
position Director Hydrogeo

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

- File: Hydrogeo LOA.doc - [Download](#)

Date

* 01/05/2026

Submit your application

Enter your email address to get a copy of your application

mike@hydrogeo.co.uk