

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

Water Resources Act 1991, Environment Act 1995, The Water Resources (Abstraction and Impoundment) Regulations 2006, The Natural Resources Body for Wales (Functions) Order 2012

1. Application type

- New full abstraction licence ☒ Give existing licence serial number and/
New temporary abstraction licence ☐ pre-application reference number
New licence to transfer water ☐
Renewal of a time-limited abstraction licence ☐
Technical variation to an abstraction licence ☐

For hydropower abstractions, specify the capacity (in kilowatts) of your scheme.

25kW or less ☐ >25 to 50kW ☐ >50 to 100kW ☐ >100kW ☐

2. Linked licences

2.1 Does your proposal involve water rights trading?

No ☒ Yes ☐ If yes, provide licence serial number(s)

2.2 Is the licence (to be) aggregated with any other licences?

No ☒ Yes ☐ If yes, provide licence serial number(s)

3. Abstraction details

Provide details of all points of abstraction. Details of abstraction location(s) should correspond with any maps submitted.

If necessary, continue on a separate sheet and tick here to show that you have done this ☐

Abstraction location name / reference	Type (single point / reach)	National Grid Reference (12 digit)	If a reach, downstream National Grid Reference (12 digit)
Wrexham Tank	Single Point	SJ 34659 50641	

4. Means of abstraction

Detail the structure and equipment involved in the abstraction process. If this information is detailed in a supporting document, provide the document reference. For groundwater abstractions, include borehole depth and diameter and provide details of screening and lining. If necessary, continue on a separate sheet and tick here to show that you have done this. ☐

46 no ejector wells at 3m intervals around the excavation perimeter to a depth of 10m screened in the alluvial deposits.

5. Abstraction quantities

Provide details of the abstraction quantities and periods proposed, including any deregulated abstractions (< 20 cubic metres per day) you currently have. Details of abstraction locations should correspond with any maps submitted.

Abstraction location name / reference	Purpose which water will be used for	Abstraction period (state 'all year' or give months)	Maximum annual abstraction volume (cubic metres)	Maximum daily abstraction volume (cubic metres)	Maximum hourly abstraction volume (cubic metres)	Number of hours of abstraction per day	Peak abstraction rate (litres per second)
Wrexham Wynnstay Avenue	N/A	May – September	19584	128	6	24	1.5
Total			19584	128	6		

6. Calculations and supporting information

Please provide further details of your intended use of water, including calculations in support of the quantities you have requested, your operational regime and any management agreements. See Guidance Note WRX for details of what is required. If your proposal involves the provision of a residual flow via a notch or orifice, provide information on how this has been calculated.

If necessary, continue on a separate sheet and tick here to show that you have done this. ☐

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7. Industry-specific requirements

Complete the relevant table in line with the purpose of your proposal to demonstrate a justification of need for the quantities proposed. For uses not covered here or to provide further details, please use a separate sheet and tick here to show that you have done this ☐

7.1 For agricultural use:

Crop type	Soil type (for multiple soil types, indicate approximate split)	Maximum area of crop to be irrigated annually (hectares)	Maximum annual depth of irrigation to be applied (millimetres)
<i>e.g. Carrots</i>	<i>Silty clay</i>	<i>10</i>	<i>90</i>

Livestock type	Number of animals	Maximum daily quantity of water used (cubic metres)	Comments
<i>e.g. Sheep</i>	<i>200</i>	<i>0.005 per animal</i>	<i>Drinking water</i>
Provide details of any additional requirements (washing / cleaning)			

7.2 For golf course irrigation:

Feature	Maximum area to be irrigated daily (hectares)	Maximum depth of water to be applied daily (millimetres)
<i>e.g. Greens</i>	<i>0.9</i>	<i>220</i>
Tees		
Greens		
Fairways		
Others		

7.3 For industrial use:

Industry sector or process type	Water use per unit produced (state units)	Maximum units produced per year
<i>e.g. Ice cream</i>	<i>1.9 cubic metres per tonne of ice cream</i>	<i>10,000 tonnes</i>

7.4 For hydropower:

If you have submitted this information as part of your pre-application enquiry and no changes have been made to your proposal in the meantime, you are not required to provide these details again.

% abstraction and zone applied for (see HGN2)	Average gradient of depleted reach (%)	Catchment size above abstraction point (kilometres square d)	Net head between abstraction and discharge points (metres)
Turbine efficiency (%)	System efficiency (%)	Maximum power output (kilowatts)	Annual capacity (kilowatt hours)

State the length of depleted reach (in metres)

Provide the flow data (in cubic metres per second) & ratios specified below:

Q95	
Q10	
Qmean	
What is the ratio of Q95:Qmean?	
What is the ratio of Q10:Qmean?	

Please send us a copy of the full flow duration curve for the site and confirm the method used to derive this. If you have used modelling software such as LowFlows, please provide us with a copy of the output (graph, data and catchment map) including the Long Term Average rainfall.

What low flow protection* do you propose to maintain in the depleted reach when the hydropower scheme is operating (in m³/s)?

* Low flow protection is the flow rate above which abstraction can begin and is separate to the abstraction % take, see HGN2 for details.

8. Means of measurement

State how you intend to measure abstracted quantities at each abstraction point.

Meter ☒ Power Generated ☐ Other ☐

If other, please specify

9. Water efficiency

Describe all steps you have taken or intend to introduce to ensure efficient use of water, such as water storage, re-use or conservation provision. If necessary, continue on a separate sheet and tick here to show that you have done this. ☐

10. Fish and eel considerations (surface water abstractions only)

10.1 Confirm the fish species present at your site. If you are submitting a survey or report with your application, please tick here to show that you have done this. ☐

Not applicable

10.2 Does your proposal include measures to safeguard fish and eels? Only provide details of outfall screening if abstracted water is to be discharged back into a watercourse.

	Intake	Outfall
Type of fish screen		
Screen aperture size (mm)		

11. Discharge details

11.1 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.

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)
Discharge Point1	SJ 34669 50651	19584	
Discharge Point 2	SJ 34580 50580	19584	

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

Discharged into DCWW existing manholes feeding into the Foul water network.
The total 19584m³ will be discharged between the 2 manholes to suit construction needs. We will only discharge into a single manhole at any time and not both simultaneously.
The discharge will be pumped into a settlement tank located adjacent to the manhole and gravity fed through flexible pipework into the existing foul water network owned by DCWW.

12. 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.

13. Planning application

Have you sought advice on your planning application?

No ☒ Yes ☐

If yes, submit a copy of the Planning Authority's response.

14. Declaration

Please see Guidance Note WRX for details of who can sign this section and note the information in that document relating to the Data Protection Act 1998.

By signing below, you are declaring that as far as you know and believe the information given in this form, on any map and in any supporting or additional information, is true.

Signed

David Stacey

Print name

DAVID STACEY

Position

FRAMEWORK DIRECTOR

Date

21/10/19

Application Checklist

Please tick the following checklist items to indicate that you have included the required information. If any sections of the form are left blank and no supporting information submitted, where we have insufficient information to make a decision on your application, we will return your application to you.

Essential:

- | | |
|--|--|
| Form WRA completed | <input checked="" type="checkbox"/> |
| Map showing applicant's land boundary with all abstraction and discharge point(s) clearly marked | <input checked="" type="checkbox"/> |
| Evidence of negotiations of expected access rights, if applicable | <input checked="" type="checkbox"/> |
| State number of continuation sheets (enter 0 if none included) | <div style="border: 1px solid black; padding: 2px; display: inline-block;">0</div> |

Where relevant:

- | | |
|---|-------------------------------------|
| Letter of authorisation from the applicant, allowing the agent to act as signatory | <input checked="" type="checkbox"/> |
| Form WRE completed, if your proposal also requires an impoundment licence | <input type="checkbox"/> |
| Further information requested in our pre-application response letter to you | <input type="checkbox"/> |
| For hydropower applications, full flow duration curve for the site, confirmation of the method used to derive this and a copy of the output (graph, data and catchment map) including the Long Term Average rainfall, where available | <input type="checkbox"/> |
| Planning Authority response, where available | <input type="checkbox"/> |
| Additional supporting information - please list below: | |