

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/
pre-application reference number
- New temporary abstraction licence
- 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)
WEPA Paper Mill Dept C	Area	Corner 1: SS 87835 87078 Corner 2: SS 87926 87071 Corner 3: SS 87921 87012 Corner 4: SS 87830 87019	
WEPA Paper Mill Dept B	Area	Corner 1: SS 88017 87054 Corner 2: SS 88049 87054 Corner 3: SS 88049 86997 Corner 4: SS 88012 86997	

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.

Abstraction will be undertaken from an array of wells installed around two excavations. 12 No wells will be installed around the proposed excavation for Department C and 8 No wells will be installed around the proposed Department B. Wells will be installed by rotary drilling techniques at 250 mm dia to between 14 and 20 m depth, with a 140 mm dia PVC liner installed. Liner will have a slotted section and granular backfill in order to filter any fines from the water. Discharged groundwater will be free of suspended solids.

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)
WEPA Abstraction area Dept B + Dept C	Dewatering	December to May	488,160.00	2160	90	24	25
		Total	488,160.00	2160	90		

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.

The purpose of the dewatering is to lower groundwater sufficiently in the bedrock to prevent the risk of uplift. The empirical calculations have been undertaken to estimate the flowrates required to lower water levels sufficiently to prevent the risk of uplift during the excavation. Water may be either discharged into WEPA’s filtration plant for reuse or to the effluent plant on site (operated by WEPA).

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	<input style="width: 100%;" type="text"/>
Q10	<input style="width: 100%;" type="text"/>
Qmean	<input style="width: 100%;" type="text"/>
What is the ratio of Q95:Qmean?	<input style="width: 100%;" type="text"/>
What is the ratio of Q10:Qmean?	<input style="width: 100%;" type="text"/>

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.

Water will not be stored; it will be either discharged into WEPA's filtration plant for reuse or to the effluent plant on site (operated by WEPA).

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.

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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)
Existing on site treatment plant	SS 87941 87247	488,160.00	

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

Water from the dewatering system will be collected via 6" pipework and discharged via v-notch tank or a siltbuster type tank into the existing combined sewer network on site. Water will then be either discharged into WEPA's filtration plant for reuse or to the effluent plant on site (operated by WEPA), on the basis that the water is uncontaminated and silt free.

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.

Water feature survey was undertaken on site and the report attached to this form. We have also contacted a local council and they confirmed that no groundwater abstractions are located within 1 km of the site.

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

Print name

Position

Date

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
- Map showing applicant's land boundary with all abstraction and discharge point(s) clearly marked
- Evidence of negotiations of expected access rights, if applicable
- State number of continuation sheets (enter 0 if none included)

Where relevant:

- Letter of authorisation from the applicant, allowing the agent to act as signatory
- Form WRE completed, if your proposal also requires an impoundment licence
- Further information requested in our pre-application response letter to you
- 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
- Planning Authority response, where available
- Additional supporting information - please list below:



Notes:

- 1) Well installation and location details are for indicative purposes only.
- 2) Others to check that indicated locations are free from services and underground structures.

Rev No	Drawn by	Check by	Date	Reason for revision	Project Name:
00	UM	NC	06/10/2020	Issue for review	WEPA Paper Mill, Bridgend
01	UM	NC	08/12/2020	Issue for review	Drawing Title: Proposed Abstraction Points
					Drawing No: P2764/006 Scale: As Shown

T4S4

Construction Contract

Relating to a Development at Bridgend Paper Mill

Dated 2020

- (1) **WEPA UK Ltd**
- (2) **Andrew Scott Ltd**

BETWEEN:

- (1) **WEPA UK Ltd** (company number 08347876) whose registered address is Bridgend Paper Mills, Llangynwyd, Maesteg, CF34 9RS (the "**Employer**"); and
- (2) **Andrew Scott Ltd** (company number 00406516 whose registered office is at The Grange, Margam, Port Talbot, SA13 2SP (the "**Contractor**").

Whereas the Employer wishes to engage the Contractor for the execution and completion of extension works at Bridgend Paper Mill.

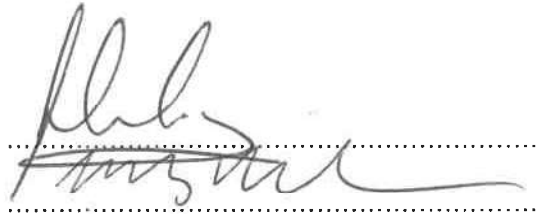
THE EMPLOYER AND THE CONTRACTOR AGREE as follows -

- 1 In this Contract Agreement words and expressions shall have the meaning assigned to them in the Conditions of Contract hereinafter referred to.
- 2 The following documents shall be deemed to form and be read and construed as part of this Contract Agreement:
 - 2.1 the Particular Conditions Part A - Contract Data attached hereto as Schedule 1;
 - 2.2 the table of Critical Milestone Dates attached hereto as Schedule 2;
 - 2.3 the FIDIC 2017 Conditions of Contract for Construction General Conditions as amended by the Particular Conditions Part B – Special Provisions attached hereto as Schedule 3;
 - 2.4 the Pricing Schedule attached hereto as Schedule 4; and
 - 2.5 the other documents defined in the Schedule of Contract Documents attached hereto as Schedule 5; (copies of which have been issued to the Contractor electronically via email on or before the date of this contract and which by initialling the attached Schedule of Documents the Employer and Contractor hereby agree form part of the contract);
- 3 In consideration of the payments to be made by the Employer to the Contractor as mentioned in the Contract, the Contractor covenants with the Employer to execute and complete the Works and remedy any defects therein, in conformity with the provisions of the Contract.
- 4 Any disputes, differences or questions arising out of or relating to this contract are to be resolved in accordance with the adjudication and/or litigation provisions of the Contract.
- 5 This Contract and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and construed in accordance with the law of England and Wales.

This Contract has been executed as a deed and is delivered and takes effect on the date stated at the beginning of it.

Executed as a deed by the **Employer** acting by the Managing Directors in the presence of the COO and the CEO.

Managing Directors' signature:



Managing Directors' name:

Docker
Curtis

COO of Wepa Group signature:



COO of Wepa Group name:

H. Oth

CEO of Wepa Group:

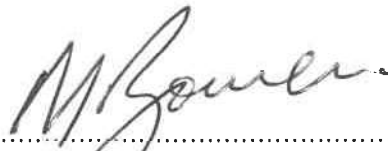


CEO of Wepa Group name:

P. Kerley

Executed as a deed by the **Contractor** acting by a director in the presence of a witness.

Director signature



Director Name

MARK BOWEN

Witness signature:



Witness name:

JULIAN DAVIES

Witness occupation:

DIRECTOR

Witness address:

26, CEMABE Rd, CROESPENMAEN
CRUMLIN, NP11 5GQ

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Schedule 1
Contract Data

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CONTRACT DATA

Sub-Clause	Data to be given	Data
1.1.1	Accepted Contract Amount	£
1.1.4	Base Date	22 nd May 2020
1.1.7	Commencement Date	21 st September 2020
1.1.19	where the Contract allows for Cost Plus Profit, percentage profit to be added to the Cost:.....	
1.1.27.....	Defects Notification Period (DNP):	12 months
1.1.31.....	Employer's name and address:	WEPA UK LTD, Bridgend Paper Mills, Llangynwyd, Maesteg CF34 9RS
1.1.35.....	Engineer's name and address:	BHM INGENIEURE - Engineering & Consulting GmbH Runastrasse 90 6800 Feldkirch Austria
1.1.84.....	Time for Completion of the Works :	72 weeks 2 days – 8 February 2022
	Time for Completion of Section 1 (The whole of Dept A+B Pulp Storage Area, Bale Handling and Stock Preparation, and external hardstanding and weighbridge Including road marking.) (see reference dwg "overview section completion")	28th October 2021
	Time for Completion of Section 2 (The whole of Dept C , including related south side external hardstanding Incl. M&E commissioning.)	18th January 2022