

# FORM WRA: Applicant details and proposal outline

## Application type and fee

Please generate a reference number. It should start with "WR" followed by your organisation or company name and today's date in four-digit format (DDMM) without spaces or punctuation.

Example: WRNATURALRESOURCESWALES1101

Please use this use this number throughout this application. This reference number can also be used for your BACS reference if paying electronically.

WRGLANDWRMILL2011

For the application types listed, complete this form and/or the relevant additional forms named below. Tick the type of application you are applying for. Please refer to our Find out if you need a licence web-page for an explanation for the different licence types. If your proposal involves multiple licence types, tick all that apply.

See our Charges for abstraction and impoundment applications web page for details of application fees and how to pay.

New full abstraction licence. Also complete form WRD.

New impoundment licence. Also complete form WRE.

Please indicate how you wish to pay your application fee. If paying by BACS, please quote the reference number created in question 1 when setting up the bank transfer.

If paying by cheque, please ensure you add the six digit cheque number below.

BACS

Please add your BACS reference below

WRGLANDWRMILL2011

## Applicant details

Applicant type

Individual

Applicant details

**Full Name** Stephen Cochrane

**Company, Charity or Trading Name** -

**Company or Charity Registration Number** -

#### Applicant Registered Address

**Line 1** Glandwr Mill

**Line 2** Barmouth

**Line 3** -

**Line 4** -

**Postcode** LL42 1TG

#### Applicant Contact details

**Office Telephone Number** 01341 281165

**Mobile Telephone Number** 01341 281165

**Email Address** cochrane@aol.com

Please indicate who we should contact regarding operation of your site, this should be the person responsible for the day to day running of the operation.

	Applicant	Agent
Site operations contact	X	

For applications for abstraction licences, please also specify who we should contact for invoices and abstraction records (returns).  
Not necessary for temporary or transfer licence applications.

	Applicant	Agent
Invoice address	X	
Abstraction records contact	X	

### Details of agent or individual authorised to act as application contact

#### Use applicant contact details

No

#### Application details

**Full Name** Liam Brown

**Company, Charity or Trading Name** Greenerth Hydro Limited

**Position in Company** Managing Director

#### Applicant Registered Address

**Line 1**      The Cottage

**Line 2**      Rhiw

**Line 3**      Pwllheli

**Line 4**      -

**Postcode**   LL53 8AE

#### Applicant Contact details

**Office Telephone Number**   01691648378

**Mobile Telephone Number**   07980670046

**Email Address**                liam@greenearthhydro.co.uk

### Entitlement to apply (not required for impoundment licence applications)

Does the applicant have a legal right of access to the point of abstraction?

Owner

Site map showing abstraction points

- File: 210327LB01-V2 Site layout.pdf - [Download](#)

For abstraction licence applications where you are the landowner, provide a map with the land boundary and all abstraction and discharge point(s) marked.

Please tick here to show that you have done this.

### Pre-application number

Have you undertaken a pre-application enquiry or had any previous discussions with us?

Yes

Provide reference number or staff member's name

Gideon Carpenter

### Remediation work

Is this proposal as a result of a Restoring Sustainable Abstraction programme or other work requested by us?

No

## Source of supply

State where you intend to abstract from

Surface Water. e.g. Stream, leat, spring

Provide a 12 digit National Grid Reference for the proposed or existing abstraction or impoundment point (e.g. ST 19057 76826)

SH 63384 17585

Source of supply (name of watercourse or aquifer)

Afon Dwyntant

Site name / reference  
(e.g. Tŷ Mawr Farm)

Glandwr Mill

## Proposal summary

Please provide an outline of your proposal, including any sketches.

As a guide, you should include: a description of the activities which (will) take place at your site, the means of abstraction/impoundment proposed, if the proposal is related to another licence or permit (i.e. an Environmental Permit to Discharge Water) and details of any survey work undertaken. For changes to existing licences, summarise the changes proposed. Sketches or photographs that will aid our understanding of your proposal can be uploaded below.

The proposal is to reinstate a disused 9kW hydropower scheme. This will be an off-grid scheme providing domestic hot water and space heating for the house. The existing Gilkes Francis turbine is supplied by a leat, linked to a stone weir, and by a plastic penstock (pipe). The existing stone weir is in good repair and only requires minor modifications so that the abstraction can be controlled in accordance with NRW guidelines. A coanda screen will be installed at the stone weir to prevent fish entering the leat. The turbine needs renovating and the leat wall needs repair.

A 'hands off flow' (HOF) channel will be cut into the stone weir and until the HOF has been satisfied, no water will be abstracted. In addition to this the proportional take, in excess of the HOF, is proposed to be 70%. The HOF channel's width will be such that it will also control this proportional take.

The turbine's gross head is 13.59m, net head 12.90m.

It is intended that abstraction take place all year round.

Maximum instantaneous flow (Design flow): 90 l/s

Max hourly abstraction (Design flow x 3600 sec): 324 cubic metres

Max daily abstraction (Max hourly abstract x 24h): 7,776 cubic metres

Max Annual abstraction (Max Daily Abstraction x 365 days): 2,838,240 cubic metres

## 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**       Stephen Cochrane  
**Print name**   STEPHEN COCHRANE  
**Position**     Owner

**Date**

\*   21/11/2021

**Would you like a copy of your submission?**

Yes

**Your email address**

cochranest@aol.com