

Ordinary Watercourse Consent

Land Drainage Act 1991

Mr Joel Scott
Corwen Electricity Co-operative
The Owain Glyndwr Hotel
The Square
Corwen
Denbighshire
LL21 0DL

Consent applying to
**Temporary and permanent works related to the intake structure for the 100kW
Bonwm mini-hydro project.**

Consent Number
DCC2021LD125

Effective from
30th September 2021

Consent Expires
30th September 2024

Introduction

This Note does not form part of the Certificate of Authorisation.

Denbighshire County Council Ordinary Watercourse Consents are required by virtue of the Land Drainage Act 1991. The following activities on an Ordinary (non-main) Watercourse require Lead Local Flood Authority Consent:

Under Section 23 of the Land Drainage Act 1991;

The erection or alteration of any mill dam, weir or other like obstruction to the flow of any watercourse

The erection or alteration of any culvert that would be likely to affect the flow of any watercourse

Under Sections 17 and 20(2) of the Land Drainage Act 1991

Any drainage works carried out by a local authority against flooding in connection with any watercourse

Under Section 61F Land Drainage Act 1991 (Inserted by Schedule 22 Environment Act 1995)

The operation of any drainage works, under the control of any Internal Drainage Board or local authority, so as to manage the level of water in a watercourse for the purposes of facilitating spray irrigation.

Note: Consent under the above legislation is required irrespective of whether the works are permanent or temporary.

Contraventions

In relation to Ordinary Watercourses, Denbighshire County Council can, under Section 24 of the Land Drainage Act 1991, serve a legal notice requiring the person to abate the nuisance within a specified time. Failure to abide by such a notice can result in Denbighshire County Council carrying out the necessary remedial work and seeking to recover costs.

Consent DCC2021LD125

Land Drainage Act 1991

Ordinary Watercourse Consent

Control of Works Affecting Watercourses and/or Flood Defences

Consent number DCC2021LD125

To: Mr Joel Scott (on behalf of Corwen Electricity Co-operative)

Denbighshire County Council, in exercise of its powers under Section 23 of the Land Drainage Act 1991 and subject to the conditions attached, hereby grants its consent in relation to the works or operations described in this Consent.

Watercourse: Nant Llechog

Location: Bonwm, Corwen, LL21 9EN

Map reference: SJ 09885 42370

Description of works: Intake structure for hydro-electric project

This Consent shall come into effect on

Date 30th September 2021

Signed on behalf of Denbighshire County Council



Wayne Hope
Flood Risk Manager

Conditions

This consent is granted with the following conditions:

Site Specific

None.

General

It is the grantee's responsibility to ensure they obtain the consent / permission of any land owners and occupiers affected by the works.

This Consent does not remove from the applicant the necessity to obtain other licences, consents, approvals or permissions (including Planning Permission or Street Works) which may be required in law or in order to comply with any duties or responsibilities for conservation or protection of the environment.

This Consent does not confer any rights of entry or rights over property.

Timing

The Construction of the works described in the application must be completed within three years from the date of issue of this consent. Works not completed within this time and/or any additional works will require a new consent.

Other Information

This Consent does not free you from the need to obtain other licences, consents, approvals (including bye-law consents) or permissions (including planning permission) which may be required in law or in order to comply with any duties or responsibilities for conservation or protection of the environment. In addition you should ensure that you obtain the consent of any owners or occupiers of land if necessary. This Consent does not confer any rights of entry or rights over property.

You should ensure that the works are carried out in a proper manner so as not to adversely affect the watercourse and you are advised to consult and comply with any special requirements issued by Denbighshire County Council for your use. Work should be completed as quickly as possible once started. Pollution Prevention Guidance (PPG5) from Natural Resources Wales should be followed during the works to ensure there is no adverse impact upon the watercourse and surrounding habitats (which are of principle importance to the conservation of biological diversity in Wales under Section 42 of the Natural Environment and Rural Communities Act 2006.) Good practice with regards to biosecurity should be employed to prevent the import, export or spreading on site of problem species / diseases (i.e. clean equipment, material and boots before deployment to site and before removal from site, avoid areas known to be contaminated etc.).



Application for Ordinary Watercourse Consent

Please read through these guidance notes and the application form carefully before you fill in the form.

Before completing the application form you are recommended to contact us for advice on your proposal.

There is a charge of £50 per an application for Ordinary Watercourse Consent applications made under the *Land Drainage Act 1991*. Under this act you need consent if you wish to build a culvert or structure (such as a weir) to control the flow of water on any Ordinary Watercourse.

If you are not sure about anything in the application form, please don't hesitate to contact us.

1.0 Location of the Proposed Works

To accurately identify where the proposed works will be carried out. Please give details of:

The location of the site; and post code if known.
The name of the watercourse;
The National Grid Reference (12 figures)

Location: Bonwm, Corwen, LL21 9EN

Name of Watercourse (if known): Nant Lechog

National Grid reference of the site (12 figures): SJ 09885 42370

LLFA Office Use Only

Date App received: _____

No. of structures: _____

Delegated officer: _____

Application Ref No: _____

Date Fee Received: _____

Fee Applicable: Yes / No

Date App complete: _____

2.0 Contact details

To enable us to process your application as promptly as possible, we need to have a named individual who can be contacted to clarify any aspects of the application (it may be yourself or a representative acting on your behalf such as an agent, contractor, etc).

Title: Mr

Second Name: Oliver

First Name(s): Paish

Organisation:

Derwent Hydro Developments Ltd

Postal Address:

40 Holloway Rd
Duffield
Derbyshire

Post Code: DE56 4FE

Email: oliver.paish@derwent-hydro.co.uk

Contact Telephone: 01332 842242

Mobile: 07545-990824

3.0 Applicant

If you are applying as a:

Company (go to 3.1)
Individual (go to 3.2)
Group (go to 3.3)
Public Body (go to 3.4)

3.1 Applying as a company

You should fill in this section if you would like to apply for Consent as a Company. You must be a registered company formally registered with Companies House. Any Consent you get will be in the company name registered with Companies House. Please ensure that the details you provide are those which are registered with Companies House.

Company name:

Company registration number:

Company registration address:

.....
.....
.....
.....

Postcode:

Country:

Email address:

Telephone:

Mobile:

Fax:

Company Director (Full Name):

Official Position:

3.2 Applying as Individual

You should fill in this section if you are not the contact named in Section 2 of this application, please provide your details below. The name you will give will be the name on any consent we grant.

Title:

First Name:

Last Name:

3.3 Applying as a Group

You should fill in this section if you would like to apply as a charity, group of individuals, club or partnership. If the group's main representative is named in Section 2. You will need to complete the name of the group and its status (i.e. is the group a charity, a club etc). Please ensure that the name of the group is provided as this is the name which will appear on the Consent we grant.

Title: Mr

First Name: Joel

Last Name: Scott

Position: Director

Name of group:

Corwen Electricity Co-operative

3.4 Applying as a Public Body

You should fill in this section if you would like to apply for consent as a public body such as an NHS Trust. Please indicate the type of body.

Name of public body:

What type of public body are you:

3.5 Address

You should fill in this section only if the applicant's main UK business address is not the same as the address given in Section 2. There is no need to complete this section if it's the same. The address you will provide will be the address your consent will be registered to and will be shown on any Consent we grant.

Address:

.....
.....
.....
.....

Post Code:

Country:

Contact Details:

Email address:

Telephone:

Mobile:

Fax:

4.0 Interest in the Land

What interest do you have in the land (for example whether you are the landowner or a tenant). If any work will be carried out on land that you do not own, you will need permission from whoever owns the land.

Are you the landowner? Yes ☐ No ☒

If you're not the landowner, please specify the name of the landowner:

Rhug Estate

Please specify what your interest is, if you are not the landowner:

Corwen Electricity Co-operative are leasing the relevant land from the Rhug Estate (CEC already operate an existing hydro abstraction on Rhug Estate land).

5.0 Description and Purpose of the proposal

It is vital that you accurately describe the proposals for the application being made. Please detail the purpose of the works and the number of structures you need consent for.

Please provide a description of the proposed Works:

This application covers the temporary and permanent works related to the intake structure for the 100kW Bonwm mini-hydro project.

A design drawing covering both temporary and permanent works is included with the Construction Methodology appended to this application, together with site photographs and montages of the proposed works.

The proposed intake location is at Grid Ref. SJ 09885 42370 at the base of a steep waterfall where there is an abundance of exposed bedrock on which to found the structure. A 1m high concrete weir will be constructed between 2 exposed masses of bedrock. Flow overspilling this weir will be screened by a 2mm 'overwash' Coanda screen; this allows the abstracted flow to drop into a sump below which then supplies the pipeline to the turbine. The new weir will create a negligible net impoundment due to the natural 1m drop in the bedrock immediately upstream.

Flow entering the sump will travel sideways into a small settling tank set into the riverbank. This chamber allows any air bubbles to settle out and is accessible via a small man-hole cover. This allows a 'pig' to be inserted into the pipe for future cleaning of the pipe.

A manual sluice to the side of the intake weir allows the area behind the weir to be de-watered for maintenance. The sluice includes a notch for providing the compensation flow into the stream.

The intake works have already been approved by an NRW Impoundment License (ref: WA/067/0005/0028) and Full Planning Permission (ref. 05/2018/0790/PFHY).

6.0 Detailed Proposals

To consider your proposals we may need to receive plans and drawings, drawn by a competent engineer or surveyor and showing Ordnance Datum Newlyn (height above sea level). It should be noted that we are not designing the work for you. You have to ensure that you comply with all current requirements of Construction Design & Management Regulations. You will need to provide two copies of all relevant drawings. The drawings should be no larger than A0 size and they should include the following:

Location plans

This must be at an appropriate scale and be based on an Ordnance Survey map. It must clearly show the general location of the site where the proposed work will be carried out and include general features and street names. It must also identify the watercourse or other bodies of water in the surrounding area.

Site Plan (general arrangement)

You must provide a plan of the site showing:

The existing site, including any watercourses; your proposals; the position of any structures which may influence local river hydraulics, including bridges, pipes and ducts, ways of crossing the watercourse, culverts and screens, embankments, walls, outfalls and so on, including existing fish passes or structures intended to allow fish to pass upstream and downstream. The plan should be drawn to an appropriate scale which must be clearly stated.

Cross Sections

Where works encroach into any watercourse, you should provide cross sections both upstream and downstream of the proposed works. Cross sections should be drawn as if looking downstream on the watercourse and should include details of existing and proposed features and water levels.

Longitudinal Sections

Longitudinal sections taken along the centre line of the watercourse are needed. These must show the existing and proposed features including the water levels, bed levels and structures. They should extend both upstream and downstream of the proposed work.

Detailed Drawings

These are to show details of the existing and proposed features such as the following: The materials to be used for any structures; the location of any proposed service pipes or cables which may affect the future maintenance of the watercourse;

Details of any tree, shrub, hedgerow, pond, or wetland area that may be affected by the proposed works;

Details of any planting or seeding; Dams and weirs, we need a plan showing the extent of the water impounded (held back) under normal and flood conditions so that we can assess the possible effect on the land next to the river. The plans must also show any surrounding land drains to be affected.

Calculations

Where appropriate drainage and structural design calculations shall be submitted for the structure/s.

Photographs

Where appropriate labelled photographs can be submitted to show the site / location to further clarify the works proposed.

6.1 Reference Number of all Plans, Sections and Photographs Submitted

(a) Location Plan *SEE (b) BELOW*

Reference Number(s):

(b) Site Plan Bonwm Hydro - Site Layout - Sept21.pdf

Reference Number(s): 21471-010-A

(c) Cross Section / Longitudinal Drawings *SEE (d) BELOW*

Reference Number(s):

(d) Detailed Drawings

Bonwm Hydro – Intake Works - Sept21.pdf ;

Reference Number(s): 21471-020-A ;

(e) Photographs

Bonwm Hydro – Construction Methodology.pdf

References Number(s)

7.0 Construction Details

You will require separate consents for the permanent and temporary works that do not form part of the permanent works. Temporary works might consist of, for example; cofferdams (watertight enclosures) across a watercourse, or temporary diversions of water while work is carried out. For any temporary work we need to know how you are proposing to carry out the work. So you need to send us a method statement that includes details of the specific measures you plan to take to keep disruption to a minimum and limit any unwanted effects while the work is being carried out. We need to know when you are proposing to carry out the work and how long you think it will take. When you are planning the work you need to make sure that you have allowed enough time for us to consider your application.

Are the works Permanent or Temporary:

Permanent: ☒

Temporary: ☒

If temporary, approximately what is the estimated duration of the work?

A stone-concrete bund will divert the stream for the full duration of the intake works, expected to be no more than 3 months (Oct-Dec 2021).

Date construction work will start: (dd/mm/yyyy)

01/10/2021

8.0 Planning approvals

Please complete this section if you have been given planning permission for the proposed works or if the works form part of a pre-existing planning application.

Planning Authority: Denbighshire County Council

Application Number: 05/2018/0790/PFHY

Date Submitted: (dd/mm/yyyy) 10/08/2018

Planning Permission Approved:

☒ Yes: (if yes approval date **8/11/2018**)

☐ No: awaiting decision

☐ No: rejected

9.0 Additional licenses or consents

Please consider if your plan will involve or could affect any of the following. If you answer 'yes' to any of the questions, you will probably need extra licenses or consents from the relevant authority before construction starts.

Do the planned works involve or impact upon the following?

	YES	NO	Authority to contact for consent
Impounding (Holding back a watercourse):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Natural Resources Wales
Abstracting (removing water):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Natural Resources Wales
Fish or fisheries:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Natural Resources Wales
Disposing of waste material:	<input type="checkbox"/>	<input type="checkbox"/>	Natural Resources Wales
Third Party Land:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Land owner
Public Highway / verge	<input type="checkbox"/>	<input type="checkbox"/>	Denbighshire County Council Highways
Public Right of Way:	<input type="checkbox"/>	<input type="checkbox"/>	Denbighshire County Council Highways

10.0 Maintenance

Please detail who will be responsible for the maintenance of the structure both during construction work and after the work has finished. Please include full addresses and suitable contact details.

Construction

Name: Gwyn Roberts Construction

Address:

Gwyn Roberts Construction a'i Fab
Dolhendre Isa
Llanuwchllyn
Bala, Gwynedd

Post Code: LL23 7TD

Email: lowri.rees@btinternet.com

Telephone: 01678 540348

Mobile: 01678 540348

Fax:

Post Construction

Name: Joel Scott

Address:

Corwen Electricity Co-operative
The Owain Glyndwr Hotel
The Square
Corwen
Denbighshire

Post Code: LL21 0DL

Email: joelonscott@btinternet.com

Telephone: 01490 430323

Mobile: 07774587654

Fax:

11.0 Effects on the Environment

We have a legal duty to protect and improve the environment, so we must consider the environmental effects of your proposal.

You may need to carry out an environmental appraisal to assess the effects of your work. You should contact us before you send us your application so that we can give you advice on this. If you don't your application could be delayed.

The environmental appraisal should identify and consider all likely effects on the environment. You should consider the direct and indirect effects the work has on sites and features of interest and species of particular value.

Include any specific measures you plan to keep disruption to a minimum and reduce any unwanted effects while the work is being carried out.

Set out any opportunities for you to improve the environmental value of the site. This may include creating water features, planting trees and shrubs that would normally grow at the site, providing bird nesting boxes or creating sustainable places for wildlife to live. If, as part of a planning permission we have asked for an environmental appraisal, you must send it to us with all the other supporting documents we need.

If your site falls within, is next to or is linked to a nature conservation site, contact us as soon as possible to discuss your proposals before you send us your application.

Under the European Habitats Regulations, we must make sure that Ordinary Watercourse Consent does not have a direct or indirect negative effect on any site specified in the regulations, including:

- Sites of Specific Scientific Interest (SSSIs);
- Designated Special Areas of Conservation (SACs);
- Special Protection Areas (SPAs);
- Listed RAMSAR sites; and
- Scheduled Ancient Monuments

Under the Habitat Regulations, we must consult Natural Resources Wales (or CADW in the case of ancient monuments).

You may wish to contact these organisations yourself to get their views on your proposal.

Please provide brief details of the environmental impacts the planned works may have (including any proposals for amelioration, detailing any action you will take to compensate for the effects

The conclusions from two Ecological Surveys, and the measures and good-practice principles to be employed during construction of the scheme, are provided in the Construction Methodology appended to this application..

12.0 Fee/s

The fee for Ordinary Watercourse Consent is £50 per structure. An acceptable form of payment is via cheque made payable to 'Denbighshire County Council'. Please do not send cash.

Ordinary Watercourse Consent fees are applicable to this application:

Number of proposed structures
(Section 4.0)

1

X (multiplied by)

£50.00

Total Fee enclosed

£50.00

Fee enclosed:

Yes:

No: ☒

The fee will be paid by BACS (or credit card). Please contact Oliver Paish on:

oliver.paish@derwent-hydro.co.uk (01332-842242)

13.0 Checklist

Please read through this list and confirm the items you are sending with this application. If application is being sent electronically it is only necessary to provide one set of supporting documents.

Completed form



Copies of supporting drawings/documents/photographs



Method Statement



Environmental/Ecological Reports



Applicable fee



14.0 Declaration

Please confirm that the information you have provided in the application, as far as you know, is true. Note: Denbighshire County Council, by granting Consent under the Land Drainage Act 1991 accepts no liability for any loss or damage which may arise out of design, construction, maintenance or use.

Signature:



Date: 15/9/2021

Title: Mr

Position: Project Manager

First Name: Oliver

Last Name: Paish

OFFICIAL USE ONLY

ORDINARY WATERCOURSE
RECEIVED

FEE RECEIVED
RECEIVED

FILE REFERENCE

YES	NO

DATE

DATE FEE

Next steps

When you have completed the application form please return this form together with any supporting documents and the applicable fee to us.

Denbighshire County Council
PO Box 62
Ruthin
LL15 9AZ

Email:

wayne.hope@denbighshire.gov.uk

