



**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

## **Permit with introductory note**

The Environmental Permitting (England & Wales) Regulations 2016

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Dŵr Cymru Cyfyngedig

Combined Sewer Overflow at Garndolbenmaen  
Wastewater Treatment Works  
Garndolbenmaen  
Gwynedd  
LL51 9PJ

Permit number

EPR/AB3495FT

# **Combined Sewer Overflow at Garndolbenmaen Wastewater Treatment Works**

## **Permit Number EPR/AB3495FT**

### **Introductory note**

#### **This introductory note does not form a part of the permit**

The main features of the permit are as follows.

The permit regulates an existing, previously un-permitted, combined sewer overflow (CSO) discharge at Garndolbenmaen WwTW. The CSO discharges into the Afon Dwyfor during storm conditions. As there is little performance data currently available for this CSO, the permit includes an improvement condition to provide all of the necessary information by 1<sup>st</sup> January 2020. Event Duration Monitoring will be made available by 1<sup>st</sup> January 2020.

There is an existing permit for the treated final effluent at Garndolbenmaen WwTW under permit number CG0080001.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application PAN-001373	Duly made 10/03/2017	Application for discharge of storm sewage.
Permit determined	06/06/2017	Permit issued to Dŵr Cymru Cyfyngedig.

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2016

## Permit number

**EPR/AB3495FT**

The Natural Resources Body for Wales (“Natural Resources Wales”) hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

**Dŵr Cymru Cyfyngedig** (“the operator”),

whose registered office is

**Pentwyn Road**

**Nelson**

**Treharris**

**Mid Glamorgan**

**CF46 6LY**

company registration number **02366777**

to operate a water discharge activity at

**Garndolbenmaen WwTW**

**Garndolbenmaen**

**Gwynedd**

**LL51 9PJ**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
<b>Emily Roe</b>	<b>06/06/2017</b>

Authorised on behalf of Natural Resources Wales

# Conditions

## 1 Management

### 1.1 General management

1.1.1 The operator shall manage and operate the activity:

- (a) in accordance with a written management system that identifies and minimises risks of pollution so far as is reasonably practicable, including those risks arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of the permit.

## 2 Operations

### 2.1 Permitted activities

2.1.1 The only activity authorised by the permit is the activity specified in schedule 1 table S1.1.

### 2.2 The site

2.2.1 The discharge activity shall take place at the discharge point marked on the site plan at schedule 7 to this permit, and as listed in table S3.2.

### 2.3 Operating techniques

2.3.1 For the discharge(s) specified in table S3.3:

- (a) The discharge shall only occur when and only for as long as the flow passed forward is equal to or greater than the overflow setting indicated due to rainfall and/or snowmelt. The capacity of the sewer network downstream of the combined sewer overflow shall not be altered in any way which would lead to a significant increase in the frequency or volume of the discharge.
- (b) The discharge shall not be comminuted or macerated and shall have passed through screens as specified and shall not contain a significant quantity of solid matter with a particle size greater than any indicated. All screenings shall be removed from the discharge.
- (c) Where a mechanically cleaned screen is installed, a telemetry alarm system shall be installed and maintained, as far as reasonably practicable, so as to give the operator immediate notification of a failure of the screen cleaning mechanism, unless otherwise agreed in writing by Natural Resources Wales. The operator shall take all appropriate measures to return the screen cleaning mechanism to normal operation as soon as reasonably practicable after receipt of notification of the failure.

## **2.4 Improvement programme**

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.2 by the date specified in that table unless otherwise agreed in writing by Natural Resources Wales.
- 2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales the operator shall notify Natural Resources Wales within 14 days of completion of each improvement.

## **3 Emissions and monitoring**

### **3.1 Emissions to water**

- 3.1.1 The limits given in schedule 3 table S3.1 shall not be exceeded.

### **3.2 Monitoring**

- 3.2.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.4.
- 3.2.2 The operator shall maintain records of all monitoring required by this permit.
- 3.2.3 An accessible monitoring point shall be provided and maintained to enable the emissions monitoring programme to be carried out at the monitoring point specified in table S3.4 of schedule 3 and shown marked on the site plan in schedule 7.
- 3.2.4 Effective from the date of installation of EDM monitoring equipment at the Site and no later than 01/01/2020.

The Operator shall take appropriate measures to ensure that the event recorder remains fully operational at all times within the reference period specified in table S3.1. Any failures shall be remedied as soon as reasonably practicable.

## **4 Information**

### **4.1 Records**

- 4.1.1 All records required to be made by schedule 3, 4 and 5 to this permit shall:
- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by Natural Resources Wales, for at least 10 years from the date when the records were made.
- 4.1.2 The operator shall maintain convenient access, in either electronic or hard copy, to the records, plan and management system required to be maintained by this permit.

## 4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 Within the time period after the end of the reporting period specified in schedule 4 table S4.1 the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and monitoring points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

## 4.3 Notifications

- 4.3.1 Natural Resources Wales shall be notified as soon as reasonably practicable following detection, within the site of the regulated facility of any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution. Any other significant adverse environmental effects, which may have been caused by the activity, shall also be notified to Natural Resources Wales as soon as reasonably practicable following detection.
- 4.3.2 The information provided under condition 4.3.1 shall be supported by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

## 4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "as soon as reasonably practicable", in which case it may be provided by telephone.

# Schedule 1 – Operations

Table S1.1 Activities	
Description of activity	Limits of specified activity
Discharge of storm sewage via Outlet 1	N/A

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
Discharge of storm sewage via outlet 1	<p>The operator shall provide the following in writing:</p> <ul style="list-style-type: none"> <li>• Weir setting and basis of calculation.</li> <li>• Storage provision and whether on or offline if relevant</li> <li>• Details of any screening, telemetry or monitoring e.g. pff/fft, discharge to environment, powered screen failure</li> </ul>	1 <sup>st</sup> January 2020

## **Schedule 2 – Waste types, raw materials and fuels**

Schedule 2 not in use.

## Schedule 3 – Emissions and monitoring

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
Storm sewage via Outlet 1	Discharge start and end times	N/A	N/A	N/A	Whenever a discharge occurs	N/A
	Block counted spills	N/A	1st January to 31 <sup>st</sup> December inclusive	N/A	15 minutes	N/A
	Event recorder status operational	N/A	N/A	N/A	15 minutes	N/A

Table S3.2 Discharge points			
Effluent Name	Discharge Point	Discharge point NGR	Receiving water/Environment
Storm sewage	Outlet 1	SH 49655 42838	Afon Dwyfor

Table S3.3 Storm sewage discharge settings					
Effluent(s) and discharge point(s)	Description of discharge	Overflow setting l/s	Maximum size of solid matter	Screen aperture size	Minimum storage capacity m <sup>3</sup>
Storm sewage via Outlet 1	Storm sewage	2.1	No greater than 10 mm in more than 2 dimensions	10mm	Not less than the volume available on the date this permit was authorised.

Table S3.4 Monitoring points			
Effluent(s) and discharge point(s)	Monitoring type	Monitoring point NGR	Monitoring point reference
Storm sewage via Outlet 1	Effluent sampling	SH 49632 42899	Effluent sampling point
Storm sewage via Outlet 1	Event duration monitoring	SH 49632 42899	Event duration monitoring point

## Schedule 4 – Reporting

Effective from the date of installation of EDM monitoring equipment at the Site and no later than 01/01/2020:

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Monitoring point reference</b>	<b>Reporting period</b>	<b>Period begins</b>
CSO performance, including total number of block counted spills	Event duration monitoring point	Annually Report to be submitted within 2 months	1 January
Duration of total spills		Annually Report to be submitted within 2 months	1 January
Event recorder status operational		Annually Report to be submitted within 2 months	1 January
Storm sewage discharge start and end times		Reports to be provided to Natural Resources Wales upon request	As specified by Natural Resources Wales

<b>Table S4.2 Reporting forms</b>	
<b>Parameter</b>	<b>Reporting format</b>
Combined sewer overflow performance including number and duration of block counted spills	Annual summary report or other form as agreed in writing by Natural Resources Wales
Storm sewage discharge start and end times	Form as agreed in writing by Natural Resources Wales
Event recorder status	Annual summary report or other form as agreed in writing by Natural Resources Wales Percentage of time in the recording period that event duration monitoring equipment is operational
Investigation into the operation of the overflow	Electronic format as agreed in writing by Natural Resources Wales.

# Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

## Part A

Permit Number	EPR/AB3495FT
Name of operator	Dŵr Cymru Cyfyngedig
Location of Facility	Garndolbenmaen WwTW, Garndolbenmaen, Gwynedd, LL51 9PJ
Time and date of the detection	

<b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b>	
<b>To be notified within 7 days of detection unless otherwise agreed in writing by Natural Resources Wales</b>	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released/type or nature of sewage released	
Best estimate of the quantity or rate of release of substances and/or duration of discharge	
Best estimate of the environmental impact of the discharge	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

**Part B – to be submitted as soon as reasonably practicable unless otherwise agreed in writing by Natural Resources Wales**

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident/breach/exceedance	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“block counted spill” one or more overflow events within a period of 12 hours or less will be considered to be one spill, one or more overflow events extending over a period of greater than 12 hours up to 36 hours will be considered to be 2 spills. Each subsequent 24 hour duration counts as 1 additional spill and the whole of the 24 hour block is included.

“event recorder” a recorder which records the start time and end time of individual overflow events

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the permitted activities, which are not controlled by an emission limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“monitoring frequency” as used in Table S3.1 in the context of event duration monitoring is the temporal interval at which a change in state between no discharge and discharge is to be detected.

“Natural Resources Wales” means the Natural Resources Body for Wales established by article 3 of the Natural Resources Body for Wales (Establishment) Order 2012. The Natural Resources Body for Wales (Functions) Order 2013 transferred the relevant functions of the Countryside Council for Wales, and functions of the Environment Agency and the Forestry Commission in Wales to the Natural Resources Body for Wales.

“overflow” for the purposes of schedule 7, overflow means the weir or orifice or other control which directs excess flow away from the continuation sewer when the flow exceeds the overflow setting due to rainfall and/or snowmelt.

“overflow setting” means the minimum flow passed forward to the continuation flow when the overflow operates.

“overflow event” any individual operation, of any duration, of the event recorder or any recorded discharge of sewage from the outfall

“overflow setting” means the minimum flow passed forward to the continuation sewer when the overflow operates.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

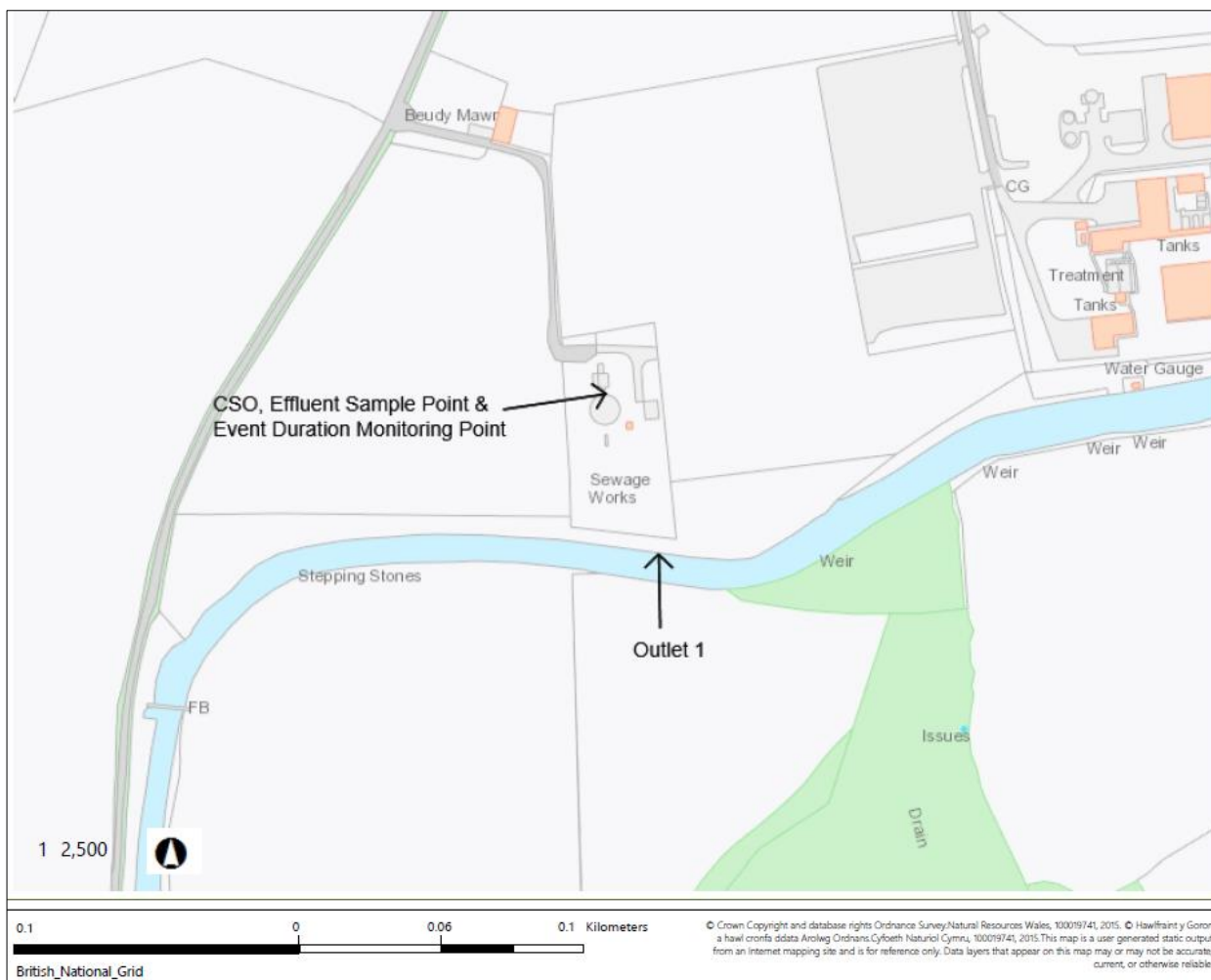
“significant pollution” means a high-level impact incident as indicated by NRW incident classification system.

“significant spill” any spill that has not been demonstrated to have been, or measured as being, less than 50 m<sup>3</sup> in volume.

“year” means calendar year ending 31 December.

“Formula A” is defined as  $(PG+I+E) + 1360P + 2E$  litres/day. Where P = population served, G = water consumption per head per day (litres/head/day) I = infiltration (litres/day) E = trade effluent flow to sewer (litres/day)

## Schedule 7 – Site plan



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END OF PERMIT