

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Dŵr Cymru Cyfyngedig

CSO and EO at Church Road SPS
Church Road
Rhos-on-Sea
Colwyn Bay
LL28 4DJ

Variation application number
PAN-019024

Permit number
CG0366401

CSO and EO at Church Road SPS

Permit Number CG0366401

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The permit has been varied to include event duration monitoring as part of the AMP environmental improvement programme.

This permit is part of the Ganol Sewerage Scheme.

As per table S3.1 in the permit below, 5 or more significant spills in any one bathing season will trigger an investigation by the water company.

The status log of the permit sets out the permitting history, including any changes to the permit reference number. It is not backdated before 6 April 2010.

Status Log of the permit		
Detail	Date	Comments
Regulator-initiated variation Application PAN-019024	Duly Made 18/08/2022	AMP programme EDM variation and addition of spill triggers.
Variation Issued CG0366401	26/10/2022	Varied permit issued to Dŵr Cymru Cyfyngedig.

End of Introductory Note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

CG0366401

Issued to

Dŵr Cymru Cyfyngedig (“the operator”)

whose registered office is

Linea

Fortran Road

St Mellons

Cardiff

CF3 0LT

company registration number **02366777**

to operate a water discharge activity at

CSO and EO at Church Road SPS

Church Road

Rhos-on-Sea

Colwyn Bay

LL28 4DJ

to the extent set out in the schedules.

The notice shall take effect from 26/10/2022.

Name

Date

Emma Jones	26/10/2022
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Authorised on behalf of Natural Resources Wales

Schedule 1

All the conditions have been varied as a result of a regulator-initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

CG0366401

This is the consolidated permit referred to in the variation and consolidation notice for application PAN-019024 authorising

Dŵr Cymru Cyfyngedig (“the operator”)

whose registered office is

Linea

Fortran Road

St Mellons

Cardiff

CF3 0LT

company registration number **02366777**

to operate a water discharge activity at

CSO and EO at Church Road SPS

Church Road

Rhos-on-Sea

Colwyn Bay

LL28 4DJ

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

Name	Date
Emma Jones	26/10/2022

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (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 activities authorised by the permit are the activities specified in schedule 1 table S1.1.

2.2 The site

2.2.1 The discharge activities 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; and the operating techniques that are the subject of conditions prefixed by 2.3, shall be applied at the location shown, or otherwise described, in schedule 7.

2.3 Operating techniques

2.3.1 For activities A1 and A2 referenced in schedule 1, table S1.1, the activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.

2.3.2 For the discharge specified in table S3.3:

- (a) The discharge shall only occur when and only for as long as either:
 - (i) the flow passed forward is equal to or greater than the overflow setting indicated due to rainfall and/or snow melt or
 - (ii) the hydraulic capacity of the sewer network downstream of the combined sewer overflow is reached due to rainfall and/or snow melt and the level of storm sewage in the sewer at the combined sewer overflow is greater than the weir level of the overflow structure which is specified as an overflow setting in table S3.3.

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) Off-line storm storage must be fully utilised before a discharge occurs. It shall only fill when the flow passed forward is equal to or greater than the overflow setting indicated due to rainfall and/or snow melt and shall be emptied and its contents returned to the continuation flow as soon as reasonably practicable. The minimum off-line storm storage required is specified in table S3.3.
- (c) On-line storm storage must be fully utilised before a discharge occurs. It shall only fill with the excess flows due to rainfall and/or snow melt. The storage shall be emptied and its contents returned to the continuation flow as soon as reasonably practicable. The minimum on-line storm storage required is specified in table S3.3.
- (d) 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.
- (e) 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.

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.

3.1.2 Effective from the date of installation of EDM monitoring equipment at the site:

If the measured number of significant block counted spills exceeds the limit specified in Table S3.1 this constitutes a Trigger Exceedance and the operator shall:

- (a) notify Natural Resources Wales of the Trigger Exceedance as soon as reasonably practicable (and no later than 4 weeks from the date of the Trigger Exceedance) in a format agreed by Natural Resources Wales;
- (b) provide a reason for the Trigger Exceedance and a description of any remedial action undertaken or proposed. Where the reason/s for the Trigger Exceedance cannot be identified within the 3 months of the Trigger Exceedance the operator must provide a proposal with timeframes for a full investigation to be carried out to identify the reason/s for the Trigger Exceedance for approval by Natural Resources Wales;
- (c) if a full investigation is required by condition 3.1.2(b), implement the proposal as approved by Natural Resources Wales and provide to Natural Resources Wales a report which identifies the reason/s for the Trigger Exceedance;
- (d) submit a plan with timeframes to resolve the reason/s for the Trigger Exceedance identified in 3.1.2(c) for approval by Natural Resources Wales;
- (e) the operator shall implement the plan as approved in condition 3.1.2(d).

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 and the environmental or other monitoring 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 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		
Activity reference	Description of activity	Limits of specified activity
A1	Discharge of storm sewage via Point of Discharge	N/A
A2	Discharge of sewage in emergency via Point of Discharge	An emergency shall be defined as the period when the sewage pumping station is inoperative as a result of one or more of the following, which is not due to the act or default of the operator, its agents, representatives, officers, employees or servants; • electrical power failure; • mechanical breakdown of duty and standby pumps; • rising main failure; • blockage of the downstream sewer. Discharge may also occur when pumping forward to the sewage treatment works is inhibited if it is inoperative

Table S1.2 Operating techniques			
Activity reference	Description of documentation	Parts	Date Received
A1 and A2	Ganol Sewerage Scheme Strategy	All	01/04/1998
A2	Pumping station key protection measures	All	01/08/2022

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 and discharge point	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
A1 Storm sewage via Point of Discharge	Discharge start and end times	N/A	N/A	N/A	Whenever a discharge occurs	N/A
	Block-counted significant spills	5 spills	15 th May to 30 th September inclusive	N/A	15 minutes	Condition 3.1.2 applies - the spills threshold is a trigger for investigation only and not a statistic for use in compliance of asset
	Block-counted spills	N/A	15 th May to 30 th September inclusive	N/A	15 minutes	N/A
	Block-counted spills	N/A	1 st January to 31 st December inclusive	N/A	15 minutes	N/A
	Event recorder status operational	N/A	N/A	N/A	15 minutes	N/A
A2 Sewage in an emergency via Point of Discharge	Discharge start and end times	N/A	N/A	N/A	Whenever a discharge occurs	N/A

Table S3.2 Discharge points			
Effluent Name	Discharge Point	Discharge point NGR	Receiving water / Environment
A1 Storm sewage	Point of Discharge	SH 83553 81389	Penrhyn Bay
A2 Sewage in an emergency	Point of Discharge	SH 83553 81389	

Table S3.3 Storm sewage discharge settings					
Effluent and discharge point	Description of discharge	Overflow setting l/s	Maximum size of solid matter	Screen aperture size	Minimum storage capacity m ³
A1 Storm sewage via Point of Discharge	Storm sewage	217	No greater than 6 mm in more than 1 dimension	6 mm x 6 mm	6960

Table S3.4 Monitoring points			
Effluent and discharge point	Monitoring type	Monitoring point NGR	Monitoring point reference
A1 Storm sewage via Point of Discharge	Effluent sampling	SH 83521 80919	Point of Overflow
A1 Storm sewage via Point of Discharge	Event duration monitoring	SH 83521 80919	
A2 Sewage in an emergency via Point of Discharge	Effluent sampling	SH 83521 80919	

Schedule 4 – Reporting.

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

Table S4.1 Reporting of monitoring data			
Parameter	Monitoring point reference	Reporting period	Period begins
Combined sewer overflow performance, including block-counted significant spills	Point of Overflow	Bathing Water season 15 th May – 30 th September Report to be submitted within 2 months	15 th May
Duration of significant spills		Bathing Water season 15 th May – 30 th September Report to be submitted within 2 months	15 th May
Event recorder status operational		Bathing Water season 15 th May – 30 th September Report to be submitted within 2 months	15 th May
Event recorder status operational		Annually Report to be submitted within 2 months	1 st January
CSO performance, including total number of block-counted spills		Annually Report to be submitted within 2 months	1 st January
Duration of total spills		Annually Report to be submitted within 2 months	1 st January
Storm sewage discharge start and end times		Reports to be provided to Natural Resources Wales upon request	As specified by Natural Resources Wales
Reason/s for the Trigger Exceedance and a description of any remedial action undertaken or proposed		Bathing Water season 15 th May – 30 th September Report to be submitted within 3 months of the date of a trigger exceedance	15 th May
Proposals with timeframes for any full investigation		Bathing Water season 15 th May – 30 th September Report to be submitted within 3 months of the date of a trigger exceedance	15 th May
Full investigation which identifies the reason/s for the Trigger Exceedance		Report to be submitted within the time period as agreed by NRW	15 th May
Plan with timeframes to resolve the reason/s for the Trigger Exceedance		Plan to be submitted within 24 months of the report identifying the reason/s for the Trigger Exceedance	15 th May

Table S4.1 Reporting of monitoring data			
Parameter	Monitoring point reference	Reporting period	Period begins
Operation of the emergency overflow		Reports to be provided to Natural Resources Wales upon request Report to be submitted within 28 days unless otherwise specified in writing by Natural Resources Wales	Upon request by Natural Resources Wales
Emergency discharge start and end times		Reports to be provided to Natural Resources Wales upon request Report to be submitted within 28 days unless otherwise specified in writing by Natural Resources Wales	Upon request by Natural Resources Wales

Table S4.2 Reporting forms	
Parameter	Reporting format
Combined sewer overflow performance including number and duration of block-counted spills	Annual water summary report or other form as agreed in writing by Natural Resources Wales
Combined sewer overflow performance including number and duration of block-counted significant spills	Annual and bathing water 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 water 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.
Reason/s for the Trigger Exceedance and a description of any remedial action undertaken or proposed	Electronic format as agreed in writing by Natural Resources Wales.
Proposals with timeframes for any full investigation	Electronic format as agreed in writing by Natural Resources Wales.
Full investigation which identifies the reason/s for the Trigger Exceedance	Electronic format as agreed in writing by Natural Resources Wales.
Plan with timeframes to resolve the reason/s for the Trigger Exceedance	Electronic format as agreed in writing by Natural Resources Wales.
Operation of the emergency overflow	Annual summary report or other form as agreed in writing by Natural Resources Wales
Emergency discharge start and end times	Spill event, time and duration reporting format spreadsheet or other form 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	CG0366401
Name of operator	Dŵr Cymru Cyfyngedig
Location of Facility	CSO and EO at Church Road SPS, Church Road, Rhos-on-Sea, Colwyn Bay, LL28 4DJ
Time and date of the detection	

(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	
To be notified within 24 hours of detection or unless otherwise agreed in writing by Natural Resources Wales	
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	

Name*	
Post	
Signature	
Date	

* 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.

“minimum screen capacity flow” means the minimum flow passed through the screens to the outfall when the screen bypass operates.

“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 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 1st January, 1st April, 1st July or 1st 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 m³ in volume.

“SOAF” means Storm Overflow Assessment Framework.

“year” means calendar year ending 31st 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