



**Cyfoeth
Naturiol
Cymru
Natural
Resources
Wales**

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Dŵr Cymru Cyfyngedig

Combined Sewer Overflow at Sketty Green
Sketty Green
Swansea
SA2 8PY

Permit number

EPR/AB3694FF

Combined Sewer Overflow at Sketty Green

Permit Number EPR/AB3694FF

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The existing Sketty Green CSO (BP0213601) receives unscreened sewage into the surface water network which then flows directly on to Swansea Bay. Dwr Cymru have applied for a permit to replace the existing permit to improve the asset by constructing on-line storage with screening and event duration monitoring and telemetry.

The Combined Sewer Overflow is designed to discharge with no more than 3 spills per bathing season on average over 10 years. 5 or more spills in any one bathing season will trigger an investigation by the water company.

BP0213601 has been surrendered.

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

Status log of the permit		
Description	Date	Comments
Application PAN-001814/A001	Duly made 08/08/2017	Application for discharge of storm sewage from a new combined sewer overflow.
Permit determined	08/12/2017	Permit issued to Dwr Cymru Cyfyngedig.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/AB3694FF

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

Sketty Green

Swansea

SA2 8PY

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

Name	Date
Emily Roe	08/12/2017

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 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 snow melt. 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) 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.
 - (d) 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.

- 2.3.2 The operator shall implement any remedial action specified by Natural Resources Wales as a result of any investigation carried out in accordance with condition 3.1.2, and any remedial actions shall be completed to a reasonable timescale specified by Natural Resources Wales.

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 (a) If the measured number of block counted spills exceeds the limit specified in Table S3.1 then the operator shall:
- i) within 3 months of the trigger breach, submit an initial report to Natural Resources Wales for approval, with reference to the Best Practice Guidance in Schedule 4 Table 4.2, and, where appropriate proposals, including timeframes, for an full investigation into the operation of the overflow including a timetable for the investigation;
 - ii) investigate the reasons for the exceedance in accordance with the approved investigation proposals and timescales;
- (b) An exceedance of the adjusted number of spills limit shall not be recorded as a failure if the operator is meeting the requirements of conditions 3.1.2 (a) and 2.3.5.

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.
- 4.3.4 The operator shall notify the Natural Resources Wales, as soon as practicable after receipt of a telemetry warning, that operation of the combined sewer overflow has taken place.

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

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
Storm sewage via Discharge Point	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	1st 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

Table S3.2 Discharge points			
Effluent Name	Discharge Point	Discharge point NGR	Receiving water
Storm sewage	Discharge Point	SS 62796 91425	Swansea Bay

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 screen capacity flow l/s	Minimum storage capacity m ³ (off-line)
Storm sewage via Discharge Point	Storm sewage	60	No greater than 6 mm in more than 1 dimension	6 mm x 6 mm	141	50

Table S3.4 Monitoring points			
Effluent and discharge point	Monitoring type	Monitoring point NGR	Monitoring point reference
Storm sewage via Outlet 1	Effluent sampling	SS 62796 91425	Effluent sampling point
Storm sewage via Outlet 1	Event duration monitoring		Event duration monitoring point

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.	Event duration monitoring point	Bathing Water season 15 May – 30 September Report to be submitted within 2 months	15 May
Duration of significant spills	Event duration monitoring point	Bathing Water season 15 May – 30 September Report to be submitted within 2 months	15 May
event recorder status operational	Event duration monitoring point	Bathing Water season 15 May – 30 September Report to be submitted within 2 months	15 May
Event recorder status operational	Event duration monitoring point	Annually Report to be submitted within 2 months	1 January
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	Event duration monitoring point	Annually Report to be submitted within 2 months	1 January
Storm sewage discharge start and end times	Event duration monitoring point	Reports to be provided to Natural Resources Wales upon request	As specified 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 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	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 and/or bathing 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.

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/AB3694FF
Name of operator	Dwr Cymru
Location of Facility	Sketty Green CSO, Sketty Green, Swansea
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 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.	

(b) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

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 1 January, 1 April, 1 July or 1 October.

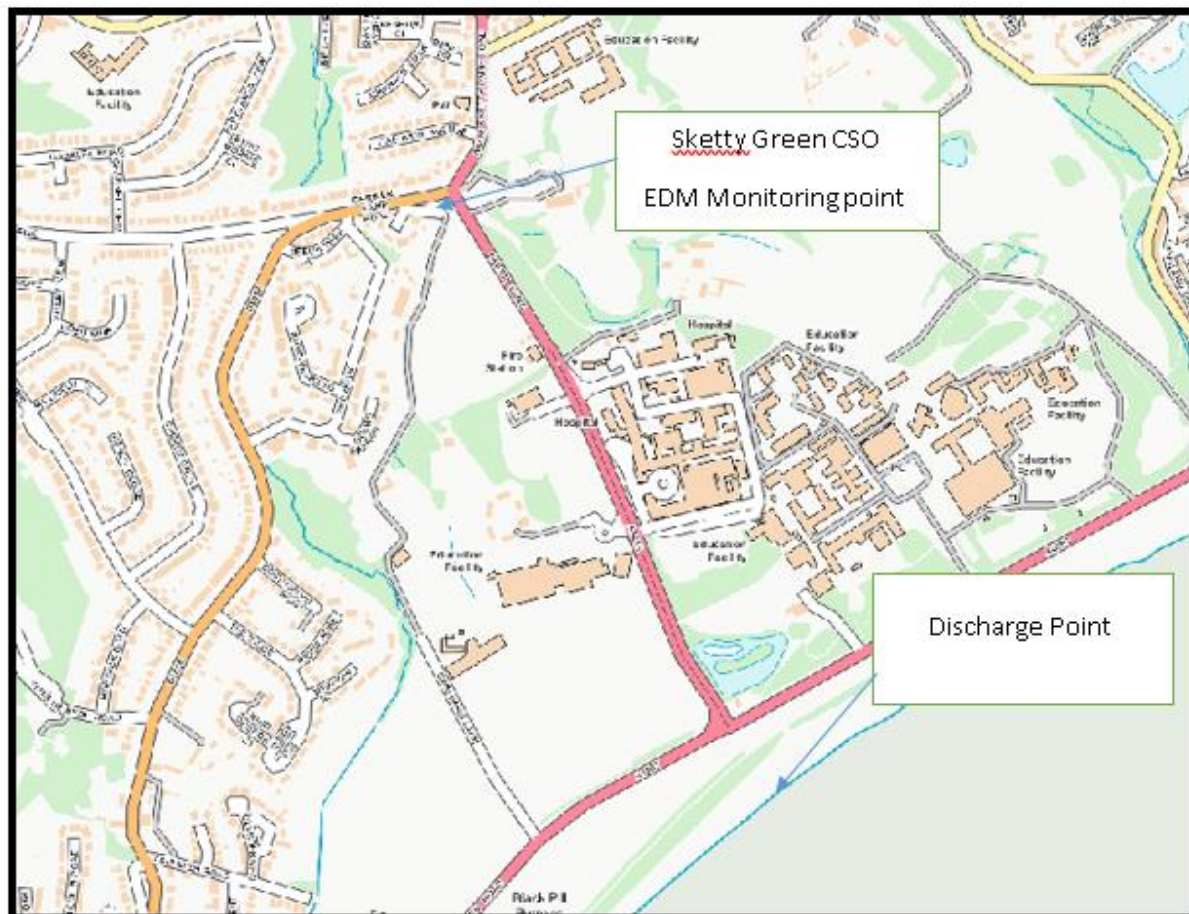
“significant pollution” means a high-level impact incident as indicated by NRW incident classification system.

“significant spill” any spill that has not been demonstrated to have been, or measured as being, less than 50 m³ 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



© Crown Copyright and database right 2017. Ordnance Survey licence number 100019741.

END OF PERMIT