

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Dŵr Cymru Cyfyngedig

Gresford Wastewater Treatment Works
Gresford
Wrexham
LL12 0HT

Variation application number

CM0040601/V005

Permit number

CM0040601

Gresford Wastewater Treatment Works

Permit number CM0040601

Introductory note

This introductory note does not form a part of the notice.

The following notice gives notice of the variation and consolidation of an environmental permit.

The permit has been varied to amend the current Total Iron as Fe limit from a Maximum of 5000µg/l to a 95%ile LUT limit of 4000µg/l and a Maximum limit of 8000µg/l. This is in line with our change in policy regarding iron limits.

The schedules specify the changes made to the permit.

The status log of a 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		
Description	Date	Comments
Variation determined CM0040601/v001	25/08/2010	First variation issued to Dŵr Cymru Cyfyngedig imposing P limits as part of habitats scheme.
Administrative Variation Application CM0040601/V002	Duly made 14/03/2013	Application to amend start date of V001 to bring forward start date of habitat improvement
Administrative Variation determined CM0040601/V002	28/03/2013	Varied permit issued.
Regulator Initiated variation determined CM0040601/V003	29/04/2016	Varied permit issued to add UT limits on sanitary determinands.
Variation application CM0040601/V004 (variation)	Duly made 08/06/2016	Application to include settled storm discharge on the permit.
Variation determined CM0040601/V004	04/10/2016	Varied permit issued to add settled storm overflow.
Application CM0040601/V005 (variation and consolidation)	Duly made 17/03/2017	Application to amend the Total Iron as Fe limit and update the permit to modern conditions.
Variation determined CM0040601	08/06/2017	Varied and consolidated permit issued in modern condition format.

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
CM0040601

issued to:
Dŵr Cymru Cyfyngedig (“the operator”)

whose registered office is

Pentwyn Road
Nelson
Treharris
Mid Glamorgan
CF46 6LY

company registration number 02366777

to operate a regulated facility at

Gresford Wastewater Treatment Works
Gresford
Wrexham
LL12 0HT

to the extent set out in the schedules.

The notice shall take effect from 08/06/2017

Name

Date

Emily Roe	08/06/2017
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Authorised on behalf of Natural Resources Wales

Schedule 1

The following conditions were varied as a result of the application made by the operator:

Table S3.1 has been amended to change the Total Iron as Fe emission limit from a Maximum limit of 5000µg/l to a 95%ile LUT limit of 4000µg/l and a Maximum limit of 8000µg/l.

The following conditions were varied as a result of an Natural Resources Wales initiated variation:

- Conditions 2.3.5, 3.1.6, 3.3.9,3.3.10, 4.2.3
- Tables S3.1, S4.1 and S4.2.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

CM0040601

This is the consolidated permit referred to in the variation and consolidation notice for application CM0040601/V005 authorising,

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

**Gresford Wastewater Treatment Works
Gresford
Wrexham
LL12 0HT**

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

Name	Date
Emily Roe	08/06/2017

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the 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 points 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 activity A1 referenced in schedule 1, table S1.1 The operator shall comply with the relevant requirements of the Urban Waste Water Treatment (England and Wales) Regulations 1994.

2.3.2 For the activity A2 referenced in schedule 1, table S1.1 The activity 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.

2.3.3 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 snow melt.
- (b) Sewage can only go to storm storage if, and for as long as, the flow of sewage is equal to or greater than the storm overflow setting due to rainfall and/or snowmelt.
- (c) Storm storage must be fully utilised before it can discharge to land or water.
- (d) The storage shall be emptied and its contents returned to the continuation flow as soon as reasonably practical.
- (e) The discharge shall not be comminuted or macerated and shall have passed through screens as specified. All screenings shall be removed from the discharge.
- (f) Where a mechanically cleaned screen is installed, a telemetry alarm system shall be installed and maintained 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.

- 2.3.4 For the activity A2 referenced in schedule 1, table S1.1 where the discharge results in unsatisfactory solid matter being visible in the receiving waters or on the banks or shoreline, in the vicinity of the outfall, the operator shall take all reasonable steps to collect and remove such matter as soon as reasonably practicable.
- 2.3.5 The operator shall implement any remedial action specified by Natural Resources Wales as a result of any investigation carried out in accordance with condition 3.1.6, 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 The limits in schedule 3 table S3.1 to which this condition applies may be exceeded where: in any series of samples of the discharge taken at regular but randomised intervals in any period of twelve consecutive months as listed in column 1 of schedule 3A, no more than the relevant number of samples, as listed in column 2 of schedule 3A, exceed the applicable limit for that relevant parameter. For relevant parameters subject to schedule 3C the assessment is based on a fixed calendar year from 1 January to 31 December inclusive.
- 3.1.3
- (a) For the emission limits in schedule 3 table S3.1 to which this condition applies, no sample of the discharge taken at a time when unusual weather conditions are adversely affecting the operation of the waste water treatment works, shall be taken into account in deciding whether or not the emission limit has been complied with.
 - (b) On any occasion where unusual weather conditions adversely affect the operation of the waste water treatment works, the operator shall use its best endeavours to mitigate that adverse effect.
 - (c) For any sample of the discharge taken to be considered for the purposes of (a) above, the operator shall notify Natural Resources Wales in writing within 14 days of becoming aware that an emission limit has been exceeded. That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.
- 3.1.4
- (a) For the emission limits in schedule 3 table S3.1 to which this condition applies, no sample of the discharge taken at a time when abnormal operating conditions are adversely affecting the operation of the waste water treatment works, shall be taken into account in deciding whether or not the emission limit has been complied with.
 - (b) On any occasion where abnormal operating conditions adversely affect the operation of the waste water treatment works, the operator shall use its best endeavours to mitigate that adverse effect.
 - (c) For any sample of the discharge taken to be considered for the purposes of (a) above, the operator shall notify Natural Resources Wales in writing within 14 days of becoming aware that an emission limit has been exceeded. That notification shall include a full description of the abnormal operating conditions and their impact on the operation of the works.
- 3.1.5
- (a) If the measured Dry Weather Flow exceeds the permitted Dry Weather Flow limit then the operator shall, as soon as is practicable, investigate the reasons for the exceedance. The operator shall report the reasons for the exceedance to Natural Resources Wales and the steps that it proposes to take to restore compliance. An exceedance of the Dry Weather Flow limit shall not be recorded as a failure if the operator takes appropriate steps to restore compliance;

- (b) If the measured Dry Weather Flow exceeds the permitted Dry Weather Flow limit because of unusual rainfall during the 12-month period, then it will not be recorded as a failure of the Dry Weather Flow limit. For the purposes of this condition, unusual rainfall shall mean rainfall that causes significantly higher sewage flows during the three-month period that normally records the lowest flows;
- (c) The permitted Dry Weather Flow limit is set at the operator's planned annual 80% exceeded flow;
- (d) For compliance with this permit, the measured Dry Weather Flow is that total daily volume that is exceeded by 90% of the recorded measured total daily volume values in any period of 12 months; and
- (e) For unusual rainfall to be considered, the operator shall notify Natural Resources Wales and provide supporting evidence as part of the normal specified data returns.

3.1.6 Effective from the date of installation of EDM monitoring equipment at the Site:

- (a) If the measured number of block counted significant spills exceeds the limit specified in Table S3.1 then the operator shall:
 - (i) within 2 months of the end of the reporting period, submit to Natural Resources Wales for approval, with reference to the Best Practice Guidance in Schedule 4 Table 4.2, proposals for an 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;
 - (iii) within 12 months of the start of the investigation submit to Natural Resources Wales for approval a report on the reasons for the exceedance and the steps that it proposes to take to restore compliance.
- (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 3.1.6 (a) and 2.3.5.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 For the activity A1 referenced in schedule 1, table S1.1 The operator shall take appropriate measures to minimise so far as reasonably practicable the polluting effects of the emissions of substances in the discharge not controlled by emission limits (excluding odour).

3.3 Monitoring

- 3.3.1 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;
 - (b) inlet quality specified in tables S3.1 and S3.4.
- 3.3.2 The operator shall maintain records of all monitoring required by this permit.
- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.3.4 Accessible monitoring points shall be provided and maintained to enable the emissions monitoring programme to be carried out at the monitoring points specified in table S3.4 of schedule 3 and shown marked on the site plan in schedule 7.
- 3.3.5 The monitoring programme for the parameters subject to schedule 3B shall be:
- (a) pre-scheduled to cover a calendar year and the programme recorded before the start of a calendar year sample period; and

- (b) spot samples collected at approximately equal intervals during the year, including samples from different days of the week and different times. Approximately 10% of samples should be outside the normal sampling window which is 9am-3pm, Monday to Friday.
- 3.3.6 After becoming aware, or following a notification that a sample has not been taken on the schedule 3B Monitoring Programme pre-scheduled date, or is lost, or a result for that sample cannot be reported, the operator shall record the details and reschedule the sample.
- 3.3.7 The monitoring programme for the parameters subject to schedule 3C shall be:
 - (a) pre-scheduled before each calendar year;
 - (b) Unless otherwise agreed in writing by Natural Resources Wales, the operator shall submit the monitoring programme for the following calendar year to Natural Resources Wales before the 1st of December; and
 - (c) samples must be collected at approximately equal intervals during the year from different days of the week and approximately 10% of samples should be taken at weekends.
- 3.3.8 Unless otherwise agreed in writing by Natural Resources Wales, after becoming aware, or following notification that a sample has not been taken on the schedule 3C Monitoring Programme pre-scheduled date, or is lost, or a result for that sample cannot be reported, the operator shall notify Natural Resources Wales of the missed even and the reschedule date as soon as reasonably practicable.
- 3.3.9 Effective from the date of installation of EDM monitoring equipment at the Site. 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.
- 4.2.3 On request, the Operator shall supply Natural Resources Wales with written details of individual spill event(s).

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:
- (a) 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; and
 - (b) any breach of a limit specified in schedule 3 table S3.1 including individual exceedances of limits which are covered by condition 3.1.2.

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 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling specified in schedule 3B/3C, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 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.

- 4.3.5 For the activity A1 referenced in schedule 1, table S1.1 where the operator proposes to make a change in the nature of the activity by increasing the concentration of, or the addition of, or allowing the introduction of, a substance to the activity to an extent that the operator considers could have a significant adverse environmental effect on the receiving waters, and the change is not permitted by emission limits specified within schedule 3 table S3.1 or the subject of an application for approval under the EP Regulations or under the terms of this permit:

- (a) Natural Resources Wales shall be notified in writing at least 14 days before the increase or addition or allowing the introduction; and
 - (b) the notification shall contain a description of the proposed change.
- 4.3.6 For the activity A1 referenced in schedule 1, table S1.1 the operator shall inform Natural Resources Wales in writing of any change, or proposed change, to the population equivalent such as would make a material change to the application of the Regulations and shall, on request, inform the Natural Resources Wales in writing of the actual population equivalent.

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 secondary treated sewage effluent with nutrient removal via Outlet 1	N/A
A2	Discharge of settled storm sewage via Outlet 2	N/A

Table S1.2 Operating techniques

Activity reference	Description of documentation	Parts	Date Received
A2	Gresford FR0466 Form	Asset Structural Description	16/06/2016

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

Effluents and discharge points	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
A1 Secondary treated sewage effluent with nutrient removal via Outlet 1	Dry weather flow	3590 m ³ /day	Total daily volume	N/A	Continuous	Condition 3.1.5 applies
	15-minute instantaneous or averaged flow	No limit set. Record as l/s	15 minute	N/A	Continuous	N/A
	ATU-BOD as O ₂	30 mg/l	Instantaneous (spot sample)	1 st April to 30 th October	As specified in schedule 3B	Look up table (Conditions 3.1.2 and 3.1.3 apply)
	ATU-BOD as O ₂	50 mg/l	Instantaneous (spot sample)	31 st October to 31 st March	As specified in schedule 3B	Look up table (Condition 3.1.2 and 3.1.3 apply)
	ATU-BOD as O ₂	64 mg/l	Instantaneous (spot sample)	1 st April to 30 th October	As specified in schedule 3B	Maximum (Condition 3.1.3 applies)
	ATU-BOD as O ₂	100 mg/l	Instantaneous (spot sample)	31 st October to 31 st March	As specified in schedule 3B	Maximum (Condition 3.1.3 applies)
	Ammoniacal nitrogen (expressed as N)	7 mg/l	Instantaneous (spot sample)	1 st April to 30 th October	As specified in schedule 3B	Look up table (Conditions 3.1.2 and 3.1.3 apply)
	Ammoniacal nitrogen (expressed as N)	10 mg/l	Instantaneous (spot sample)	31 st October to 31 st March	As specified in schedule 3B	Look up table (Conditions 3.1.2 and 3.1.3 apply)
	Ammoniacal nitrogen (expressed as N)	27 mg/l	Instantaneous (spot sample)	1 st April to 30 th October	As specified in schedule 3B	Maximum (Condition 3.1.3 applies)
	Ammoniacal nitrogen (expressed as N)	37 mg/l	Instantaneous (spot sample)	31 st October to 31 st March	As specified in schedule 3B	Maximum (Condition 3.1.3 applies)
	Suspended solids (measured after drying at 105°C)	45 mg/l	Instantaneous (spot sample)	1 st April to 30 th October	As specified in schedule 3B	Look up table (Conditions 3.1.2 and 3.1.3 apply)
	Suspended solids (measured after drying at 105°C)	75 mg/l	Instantaneous (spot sample)	31 st October to 31 st March	As specified in schedule 3B	Look up table (Conditions 3.1.2 and 3.1.3 apply)

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements

Effluents and discharge points	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
	Suspended solids (measured after drying at 105°C)	100 mg/l	Instantaneous (spot sample)	N/A	As specified in schedule 3B	Maximum (Condition 3.1.3 applies)
	Total phosphorus as P	1 mg/l	Instantaneous (spot sample)	Up until 31 st December 2017	As specified in schedule 3B	Annual mean (Condition 3.1.3 applies)
		1mg/l	24 hour composite	Effective from 1 st January 2018	As specified in schedule 3B	Annual mean (Condition 3.1.3 applies)
	Total iron as Fe	4000 µg/l	Instantaneous (spot sample)	N/A	As specified in schedule 3B	Look up table (Conditions 3.1.2 and 3.1.3 apply)
	Total iron as Fe	8000 µg/l	Instantaneous (spot sample)	N/A	As specified in schedule 3B	Maximum (Condition 3.1.3 applies)
	Total Aluminium	1000 µg/l	Instantaneous (spot sample)	N/A	As specified in schedule 3B	Maximum (Condition 3.1.3 applies)
	Visible oil or grease	No significant trace present so far as is reasonably practicable	Instantaneous (visual examination)	N/A	N/A	No significant trace (Condition 3.1.3 applies)
	ATU-BOD as O ₂ (UWWTR)	Minimum of 70 % removal compared to influent	24 hour composite	To be compliant a sample has to meet the 70% removal standard or the 25 mg/l limit not both	As specified in schedule 3C	Look up table (Conditions 3.1.2 and 3.1.4 apply)
	ATU-BOD as O ₂ (UWWTR)	25 mg/l				
	ATU-BOD as O ₂ (UWWTR)	50 mg/l	24 hour composite	This limit does not apply if a sample has met the 70% removal standard	As specified in schedule 3C	Maximum (Condition 3.1.4 applies)
	COD as O ₂ (UWWTR)	Minimum of 75 % removal compared to influent	24 hour composite	To be compliant a sample has to meet the	As specified in schedule 3C	Look up table

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements

Effluents and discharge points	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
	COD as O ₂ (UWWTR)	125 mg/l	24 hour composite	75% removal standard or the 125 mg/l limit not both	As specified in schedule 3C	(Conditions 3.1.2 and 3.1.4 apply)
	COD as O ₂ (UWWTR)	250 mg/l	24 hour composite	This limit does not apply if a sample has met the 75% removal standard	As specified in schedule 3C	Maximum (Condition 3.1.4 applies)
	Total phosphorus as P (UWWTR)	2mg/l	24 hour composite	To be compliant the discharge has to meet the 80% removal standard or the 2 mg/l limit not both	As specified in schedule 3C	Annual mean (Condition 3.1.4 applies)
	Total phosphorus as P (UWWTR)	Minimum of 80% removal compared to influent				
A2 Settled storm sewage via Outlet 2	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 st December inclusive	N/A	15 minutes	N/A
	Event recorder status operationa	N/A	N/A	N/A	15 minutes	N/A

Table S3.2 Discharge points

Effluent Name	Discharge Point	Discharge point NGR	Receiving water
A1 Secondary treated sewage effluent with nutrient removal	Outlet 1	SJ 34880 55780	River Alyn
A2 Settled storm sewage	Outlet 2	SJ 34866 55530	River Alyn

Table S3.3 Storm sewage discharge settings

Effluent and discharge point	Description of discharge	Overflow setting l/s	Screen aperture size	Minimum storage capacity m³ (off-line)
A2 Settled storm sewage via Outlet 2	Settled storm sewage	112	12mm	643

Table S3.4 Monitoring points

Effluents and discharge points	Monitoring type	Monitoring point NGR	Monitoring point reference
A1 Secondary treated sewage effluent with nutrient removal via Outlet 1	UWWTR influent sampling	SJ 34894 55604	UWWTR influent sampling point
	UWWTR effluent sampling	SJ 34884 55778	UWWTR discharge sampling point
	Flow monitoring point	SJ 34870 55599	Flow monitoring point
A2 Settled storm sewage via Outlet 2	Settled storm sewage effluent sampling	SJ 34866 55530	Settled storm discharge point
A2 Settled storm sewage via Outlet 2	Event duration monitoring	SJ 34889 55577	Event duration monitoring point

Schedule 3A - Look up table

Look up table	
Number of samples taken in any period of 12 months	Maximum number of samples permitted to exceed limit for given parameter
4–7	1
8–16	2
17–28	3
29–40	4
41–53	5
54–67	6
68–81	7
82–95	8
96–110	9
111–125	10
126–140	11
141–155	12
156–171	13
172–187	14
188–203	15
204–219	16
220–235	17
236–251	18
252–268	19
269–284	20
285–300	21
301–317	22
318–334	23
335–350	24
351–365	25

Schedule 3B - OSM tier 3 sampling frequency

Parameter	'Normal frequency' of samples per year	Reduced Sampling frequency after 12 consecutive months of numeric permit compliance, samples per year or pro rata over the remainder of a year	On numeric limit failure return to normal frequency as soon as reasonably practicable, samples per 12 months	Out of hours samples
Sanitary	24	12	24	For 24 samples 2 out of hours samples per annum
Non sanitary	12	12	12	For 12 samples 1 out of hours sample per annum

Schedule 3C – Urban Waste Water Treatment Regulations sampling frequency

Population equivalent	Samples per year	Reduced sampling frequency after a year without an UWWTR exceedance or failure, samples per year	Following an UWWTR exceedance or failure return to the higher frequency in the year that follows, samples per year
2,000 to 9,999	12	4	12
10,000 to 49,999	12	N/A	N/A
50,000 or over	24	N/A	N/A

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
Dry Weather Flow (daily flows total)	Flow monitoring point	Annually Report to be submitted within 2 months of the end of the calendar year	1 January
15-minute flow	Flow monitoring point	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
UWWTR - ATU-BOD as O ₂ , COD as O ₂ , total phosphorus as P	UWWTR influent sampling point and UWWTR discharge sampling point	Monthly Report to be submitted within 2 months	1st of month
Operator Self Monitoring - ATU-BOD as O ₂ , ammoniacal nitrogen (expressed as N), suspended solids (measured after drying at 105°C), total phosphorus as P, total iron as Fe, total aluminium.	UWWTR discharge sampling point	Quarterly Report to be submitted within 2 months	1st of month
Operator Self Monitoring summary report - ATU-BOD as O ₂ , ammoniacal nitrogen (expressed as N), suspended solids (measured after drying at 105°C), total phosphorus as P, total iron as Fe, total aluminium.	UWWTR discharge sampling point	Annually Report to be submitted within 2 months of the end of the calendar year	1st January
CSO performance, including adjusted number of total 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
Event recorder status operational	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
Dry Weather Flow (daily flows total)	WISKI electronic format specified by Natural Resources Wales
15-minute flow	WISKI electronic format specified by Natural Resources Wales
UWWTR – ATU-BOD as O ₂ , COD as O ₂ , total phosphorus as P	Electronic format specified by Natural Resources Wales
OSM - ATU-BOD as O ₂ , ammoniacal nitrogen (expressed as N), suspended solids (measured after drying at 105°C), total phosphorus as P, total iron as Fe, total aluminium	Quarterly - Electronic format specified by Natural Resources Wales
OSM - ATU-BOD as O ₂ , ammoniacal nitrogen (expressed as N), suspended solids (measured after drying at 105°C), total phosphorus as P, total iron as Fe, total aluminium	Annually - Summary report of compliance with the monitoring programme specified in Table 3.1 and schedule 3B in a format specified by Natural Resources Wales
Combined sewer overflow performance including number and duration of block counted spills	Annually 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	Annually 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	CM0040601
Name of operator	Dŵr Cymru Cyfyngedig
Location of Facility	Gresford Wastewater Treatment Works
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 unless otherwise agreed in writing by the 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 breach of a limit specified in schedule 3 table S3.1 including individual exceedances of limits which are covered by condition 3.1.2

The information specified below is to be notified to Natural Resources Wales as soon as reasonably practicable following detection.

Monitoring point reference/ source	
Self monitoring regime (where relevant)	e.g. OSM/UWWTR
Type of failure	e.g. LUT failure/LUT exceedance/upper tier/other
Date of sample/event	
Parameter	
Result and units	
Limit and units	

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

“abnormal operating conditions” include but are not limited to, the circumstances described in Regulation 40(1) of, or paragraph 6(5) of Schedule 21 to, the Environmental Permitting Regulations 2016 (illegal discharge to sewer), unusual weather, or during a defined period where the permit authorising the permitted activity has been varied for reasons such as capital works construction.

“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.

For the activities A1 referenced in schedule 1, table S1.1 “appropriate measures” for the purposes of the emission of substances not controlled by emission limits condition (condition 3.2.1) do not require the operator to undertake treatment to a level beyond that specified in schedule 1 table S1.1, or to carry out routine monitoring for substances not controlled by emission limits.

“ATU-BOD as O₂” means the biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allylthiourea).

“COD as O₂” means the chemical oxygen demand (measured using the standard dichromate procedure).

“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.

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

“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)

“MCERTS” means the Natural Resources Wales’ Monitoring Certification Scheme.

“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 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.

“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.

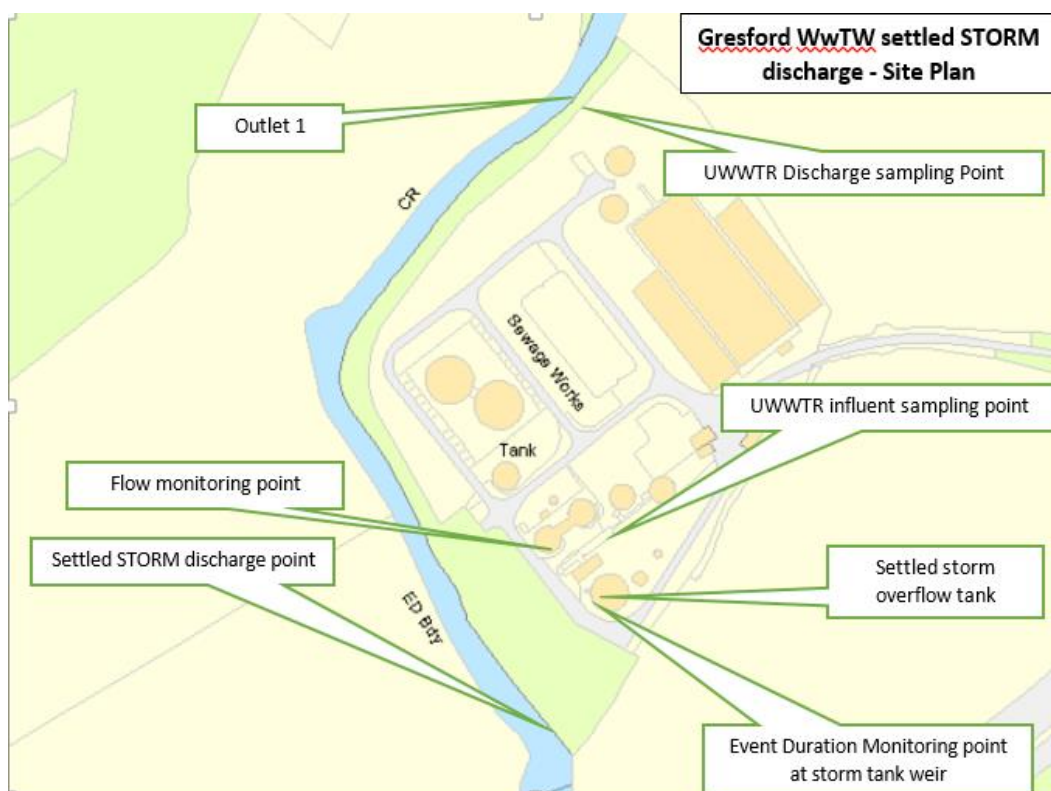
“unusual weather conditions” includes, but is not limited to:

- low ambient temperatures, or the freezing of mechanical equipment in the works;
- significant snow deposits;
- tidal or fluvial flooding;
- weather conditions causing unforeseen loss of power supply to the sewage treatment that could not be ameliorated by the reasonable provision and operation of standby generation facilities.

“Urban Waste Water Treatment (England and Wales) Regulations 1994 (UWWTR)” means Urban Waste Water Treatment (England and Wales) Regulations 1994 SI 2841 and the words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



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END OF PERMIT