

CONSENT NO.	BG0029501
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WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

TO: Dŵr Cymru Cyfyngedig ("the Consent Holder")
c/o Environment Quality Scientist
Pentwyn Road
Nelson
Treharris
CF46 6LY

Following a review of the conditions of its consent, the **ENVIRONMENT AGENCY** ("the Agency") in pursuance of its powers under the Water Resources Act 1991 **HEREBY MODIFIES ITS CONSENT** to the making of a discharge **OF SEWAGE EFFLUENT**, as follows:

Secondary Treated Sewage and Trade
with respect to Modification No. BG0029501 served on the 25th day of September 2009.

FROM: Clynderwen Sewage Treatment Works

AT: Clynderwen

TO: Pont Shan Brook

FROM NOW ON the consent is modified as follows:

Addition of the following new conditions 4, U0, U1 and U2:

4. VOLUME

- (a) The Dry Weather Flow of the Discharge shall not exceed 182.8 cubic metres per day. The consented Dry Weather Flow limit is set at the Consent Holder's planned annual 80%-exceeded flow.
- (b) In determining compliance with this Consent, 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.
- (c) The numeric value of the measured Dry Weather Flow shall not exceed the numeric value of the consented Dry Weather Flow limit.
- (d) If the measured Dry Weather Flow exceeds the consented Dry Weather Flow limit then the Consent Holder shall as soon as is practicable investigate the reasons for the exceedance. The Consent Holder shall report the reasons for the exceedance to the Agency 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 Consent Holder takes appropriate steps to restore compliance.

- (e) If the measured Dry Weather Flow exceeds the consented 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.
- (f) For unusual rainfall to be considered, the Consent Holder shall notify the Agency and provide supporting evidence as part of the normal specified data returns.

And;

Substitution of condition 2 by the following new condition 2:

2. COMPOSITION

- (a) Subject to paragraph (b) below the discharge shall not contain more than;
 - (i) 13 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20⁰ C with nitrification suppressed by the addition of allyl-thiourea)
 - (ii) 17 milligrammes per litre of suspended solids (measured after drying at 105⁰C);
- (b) The limit for any of the relevant parameters set out in paragraph (a) above 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 the table at Annex 1 to this consent, no more than the relevant number of samples, as listed in Column 2 of the said table, exceed the applicable limit for that relevant parameter.

And;

Substitution of Schedule BG0029501 01/F by the following new condition:

F1. FLOW MEASUREMENT

- (a) A continuous flow measurement and recording system (“the flow system”) that complies with the MCERTS Flow Monitoring scheme shall be provided by a date specified by the Agency and operated to record the total daily volume of the discharge;
- (b) The flow system shall also measure and record either the instantaneous flow at least every 15 minutes or the 15-minute average flow every 15 minutes. The Consent Holder shall provide and operate an on-site visual display from which the Agency can readily obtain the instantaneous or 15-minute averaged flow readings;
- (c) The Consent Holder shall hold records of the total daily volume and the 15-minute flow readings;
- (d) As soon as reasonably practicable after installation of the flow system and before the expiry of any certificate issued, the Consent Holder shall employ an independent expert to certify that the flow system complies with the MCERTS Flow Monitoring scheme;

- (e) The Consent Holder shall immediately on issue provide a copy of the MCERTS certificate to the Environment Agency and shall provide a copy of the independent expert's report to the Environment Agency on request;
- (f) The Consent Holder shall ensure that the flow system is always subject to a current MCERTS certificate;
- (g) The Consent Holder shall produce and maintain documented procedures for the calibration, operation and maintenance of the flow system ("maintenance procedures");
- (h) The Consent Holder shall employ an independent expert to certify that the maintenance procedures comply with the MCERTS requirements;
- (i) The Consent Holder shall calibrate, operate and maintain the flow system in accordance with the maintenance procedures. The Consent Holder shall keep a record of the maintenance procedures and maintenance records available for inspection by the Agency and provide a copy to the Agency on request;
- (j) The Consent Holder shall produce and maintain a formal Quality Management System ("QMS") for the management of the flow system and the implementation of the maintenance procedures. An appropriate independent certifier shall certify the QMS;
- (k) The Consent Holder shall record all failures of the flow system and any other breaks in the flow record. The reasons for all failures and breaks that lead to missing or suspect total daily volume records and all steps taken to prevent a re-occurrence shall be recorded.
- (l) The Consent Holder shall ensure that the flow system remains fully operational at all times and shall remedy any failures as soon as reasonably practicable;
- (m) The Consent Holder shall provide records of the flow readings and the reasons for any significant breaks in the record when requested, in a format specified by the Agency;
- (n) Flows of sewage through the treatment works shall be measured at the outlet, or such other point as is agreed by the Environment Agency.

As from 31st March 2015 the consent is modified as follows:

Substitution of condition 2 by the following new condition 2:

2. COMPOSITION

- (a) Subject to paragraph (b) below the discharge shall not contain more than;
 - (i) 13 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20⁰ C with nitrification suppressed by the addition of allyl-thiourea)
 - (ii) 3.5 milligrammes per litre of ammoniacal nitrogen (expressed as N)

- (iii) 17 milligrammes per litre of suspended solids (measured after drying at 105°C);
- (b) The limit for any of the relevant parameters set out in paragraph (a) above 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 the table at Annex 1 to this consent, no more than the relevant number of samples, as listed in Column 2 of the said table, exceed the applicable limit for that relevant parameter.
- (c) The discharge shall not contain more than;
 - (i) 5 milligrammes per litre of total Iron (Fe)
 - (ii) 1 milligrammes per litre of total Aluminium (Al)

And;

Addition of the following new conditions 5, 6, 7, 8, 9, 10, 11 and 12:

5. PHOSPHORUS REMOVAL

- (a) The Consent Holder shall analyse and record total phosphorus in all samples of the discharge taken for the purposes of assessing compliance with the Urban Waste Water Treatment Regulations 1994. The sample results shall be supplied to the Agency with the Urban Waste Water Treatment Regulations sample results or on request.
- (b) The mean concentration of total phosphorus expressed as P in the samples of the Discharge taken as required by paragraph (a) above in any period of twelve consecutive months shall not exceed 1 milligrammes per litre.

6. DOSING CONDITION

- (a) Subject to paragraph (c) below, the chemical dosing material(s) employed in the phosphorus removal process shall be of an iron or polyaluminium salt formulation as notified to the Environment Agency in writing prior to use.
- (b) The chemical dosing material shall at all times conform to the British Standards specification(s) relating to potable products or other equivalent specification as agreed in writing with the Environment Agency prior to use. Copies of the documentation of the quality assurance system shall be made available for inspection by officers of the Environment Agency at all reasonable times.
- (c) The chemical formulation of the chemical dosing material shall not be changed without the prior written agreement of the Environment Agency and such agreement shall only given if the Environment Agency considers that the relevant chemical formulation is unlikely to have an appreciable effect on controlled waters in the locality of the discharge.

7. DOSING TELEMETRY

A telemetry alarm system connected to a 24 hour response system shall be provided and maintained to provide notification of failure or breakdown of the iron or polyaluminium dosing plant.

8. THE DANGEROUS SUBSTANCE LIST II CONDITION

Unless the concentration is specifically regulated by conditions 2 the Discharge shall not contain a concentration of any List II Substance (as defined in the Dangerous substances Directive 76/464/EEC) such as to cause any of the relevant Environmental Quality Standards set out in DoE Circular 007/89, SI 1997 No2560 and SI 1998 No389 to be exceeded in the receiving water.

9. SUBSTANTIAL CHANGE

- (a) A Discharge shall not be made from the works if it would cause a significant increase in the polluting effects of the Discharge on controlled waters as a result of a new or altered Discharge of trade effluent into the works.
- (b) A Discharge of trade effluent into the works is new if -
 - (i) it is made by the sewerage undertaker and is of a kind not made into the works by the undertaker immediately before the date of effect of this consent; or
 - (ii) it is made by a third party and the Discharge is authorised on or after that date.
- (c) A Discharge of trade effluent into the works is altered if -
 - (i) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of effect of this consent; or
 - (ii) it is made by a third party and the alteration of the Discharge is authorised on or after that date
- (d) An increase in the polluting effects of the Discharge on controlled waters is not significant for the purposes of this condition if it relates to any characteristic of the Discharge which is specifically regulated by conditions 25 to 28 inclusive of this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.
- (e) For the purposes of this condition “trade effluent” means -
 - (a) any Discharge by the sewerage undertaker other than:
 - (i) domestic sewage from premises connected directly or indirectly to the works; or
 - (ii) surface water run-off;
 - (b) any Discharge by a third party which is authorised under Chapter III of Part IV of the Water Industry Act 1991 or which is only accepted as a result of a contract with the sewerage undertaker.

10. NOTICE OF CHANGE CONDITION

The Consent Holder shall notify the Agency in writing if any known or planned introduction or material change occurs, in respect of discharges from trade premises to the sewerage system, that may increase or introduce into the effluent any "dangerous substance" included on Lists I, II or Red List (set out in the 'List of dangerous substances' attached to this consent, as updated by the Agency from time to time and notified to the Consent Holder in writing), or any other substance considered by the Consent Holder as having or likely to have a significant effect on the receiving waters.

11. OPERATIONAL SURVEILLANCE CONDITION

The Consent Holder shall devise and implement documented procedures for the purpose and effect of maintaining awareness of the presence of dangerous substances in;

- (a) trade effluent into the collecting / sewerage system served by the works, and;
- (b) matter received directly at the works from trade premises

and shall make and maintain records of the application of such procedures, which shall be open to inspection by the Agency on reasonable notice.

12. INVESTIGATE AND MONITOR CONDITION

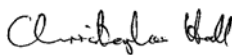
If the Agency has reasonable grounds to believe that concentrations of any dangerous substance (as defined in the Dangerous Substances Directive 76/464/EEC) in the discharge have increased, or may increase, such that there is a risk of causing pollution in the receiving water then on the written request of the Agency, the Consent Holder shall as soon as practicable investigate and provide a written assessment of the source and the concentration or quantity within the discharge of the specified substance(s).

NOTE. All other conditions of this consent remain unaltered and in force. This modification of consent should be read in conjunction with, and attached to Consent No. BG0029501.

Under the provisions of Paragraphs 7 and 8 of Schedule 10 to the Water Resources Act 1991, no notice shall be served by the Agency, which alters the effect of modifications made by this notice, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this notice is served.

This modification is served on 31st day of March 2010

This modification takes effect on 30th day of June 2010



Signed

Christopher Hall
Team Leader – National Permitting

Annex 1
Look-up Table

Number of samples taken in any period of 12 months	Maximum number of samples permitted to exceed limit for given determinand
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