



ASiantaeth YR
AMGYLCHEDD
ENVIRONMENT
AGENCY

CONSENT NO. CG0366001

pc/1743

WATER RESOURCES ACT 1991

AN10;

SECTION 88 - SCHEDULE 10

CONSENT TO DISCHARGE

TO: Dŵr Cymru Cyfyngedig
Plas y Ffynnon
Cambrian Way
Brecon
Powys LD3 7HP.

The ENVIRONMENT AGENCY ("The Agency") in pursuance of its powers under the Water Resources Act 1991 HEREBY CONSENTS to the making of a discharge OF SEWAGE EFFLUENT as follows:

Biologically Treated Sewage Effluent

FROM: Treborth Sewage Treatment Works

AT: Bangor, Gwynedd

TO: The Menai Strait

SUBJECT TO the conditions set out in the following schedule(s):

Biologically Treated Sewage Effluent Schedule No. CG036600101

Subject to the provisions of Paragraphs 6 and 7 of Schedule 10 of the Water Resources Act 1991, no notice shall be served by the Agency, altering the effect of this consent, without the agreement in writing of the discharger, during a period of 2 years from the date this consent takes effect.

This consent is issued and takes effect on the 13th day of May 1996

Signed
Area Environmental Quality Manager

Dr JOHN STONER Rheolwr Cyffredinol Rhanbarthol / Regional General Manager
Asiantaeth yr Amgylchedd
Llwyn Brain, Ffordd Penlan, Parc Menai, Bangor, Gwynedd LL57 4DE.
Ffôn: (01248) 670770, Ffacs: (01248) 670561, GTN 7-26 X 4000
Environment Agency
Llwyn Brain, Ffordd Penlan, Parc Menai, Bangor, Gwynedd LL57 4DE.
Tel: (01248) 670770, Fax: (01248) 670561, GTN 7-26 X 4000





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SCHEDULE NO.	CG036600101
DATE ISSUED	13/05/96

CONDITIONS OF CONSENT TO DISCHARGE

Biologically Treated Sewage Effluent ("the Discharge")

FROM: Treborth Sewage Treatment Works

1. (a) The Discharge shall not contain any poisonous, noxious or polluting matter or solid waste matter.
- (b) Provided that the Discharge hereby consented is made in accordance with the following conditions of this consent, such discharge shall not be taken to be in breach of condition (a) above by reason of containing substances or having properties identified in and controlled by those conditions.

NATURE

2. The Discharge shall consist solely of biologically treated sewage effluent.

LOCATION

3. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 700mm diameter outfall pipe terminating in two diffuser ports of 350 mm diameter.
 - (b) discharging to the Menai Strait.
 - (c) at National Grid Reference SH 5379 7085.
 - (d) shown marked "Discharge Point" on Plan CG0366001 attached as Annex 3.





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SAMPLE POINT

4. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SH 5430 7030, as shown marked "Sampling Point" on Plan CG0366001, so that a representative sample of the Discharge may be obtained. The discharger shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.

VOLUME

5. The volume of the Discharge shall not exceed 24667 cubic metres per day.
6. The rate of discharge shall not exceed 285.5 litres per second.
7. (a) Flow measurement structure(s) shall be provided by and maintained to enable the daily volume and instantaneous flow rate of the Discharge to be measured or determined as required.
- (b) In addition to the basic measurement structure, a continuous flow recorder, to an agreed specification, with on-site visual display from which readings can be readily obtained, shall be provided by and maintained to enable the daily volume and instantaneous flow of the Discharge to be recorded.
- (c) Copies of the readings shall be maintained by the discharger and kept available for inspection by the Agency.
- (d) The recorder shall be calibrated and maintained on a regular basis to ensure that it is reading to an agreed standard. The discharger shall keep a record of the calibration results available for inspection by the Agency.

COMPOSITION

8. (a) Subject to paragraph (b) below, the Discharge shall not contain more than;





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- (i) 50 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);
- (ii) 60 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.

9. The Discharge shall not contain more than:

- (i) 100 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);
- (ii) 150 milligrammes per litre of suspended solids (measured after drying at 105°C).

10. As far as is reasonably practicable the works shall be operated so as to prevent:

- (a) any matter being present in the Discharge, other than matter specifically covered by numerical conditions in this consent, to such an extent as to cause the receiving waters, or any waters of which the receiving waters are a tributary, to be poisonous or injurious to fish in those waters, or to the spawning grounds, spawn or food of fish in those waters, or otherwise cause damage to the ecology of those waters; and





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- (b) the Discharge from having any other adverse environmental impact.

MAINTENANCE

11. (a) The discharger shall maintain the outfall pipe and diffusers in an efficient operational condition, so as to minimise the probability of blockages or other failures, and shall implement periodic inspections of the integrity and performance of the diffusers and outfall pipe.
- (b) On request the discharger shall supply the Agency with a written report on the maintenance and all non-routine actions undertaken.

UNUSUAL WEATHER CONDITIONS

12. (a) No sample of the discharge, taken at a time when unusual weather conditions are adversely affecting the operation of the sewage treatment works, shall be taken into account in deciding whether or not the conditions contained in paragraphs 8, 9 and 10 of this consent have been complied with.
- (b) For the purpose of this condition "unusual weather conditions" shall include:
- (i) low ambient temperatures as evidenced by effluent temperatures of 5°C or less, or by the freezing of mechanical equipment in the works;
 - (ii) significant snow deposits;
 - (iii) tidal or fluvial flooding;
 - (iv) weather conditions causing unforeseen loss of power supply to the sewage treatment which could not be ameliorated by the reasonable provision and operation of standby generation facilities.
- (c) On any occasion where unusual weather conditions adversely affect the operation of the sewage treatment works, the discharger shall use its best endeavours to mitigate that adverse effect.





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- (d) For a sample of the discharge to be considered for the purposes of (a) above, the discharger shall notify the Agency by telefax or telephone as soon as unusual weather conditions are known to have adversely affected operations and shall confirm the circumstances in writing as soon as possible thereafter (and in any event within 14 days of the occurrence of such conditions). That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.

RECORDING AND REPORTING

13. The discharger shall notify the Agency in writing if any known introduction or material change, in respect of discharges from trade premises to the sewerage system, occurs that may increase or introduce into the effluent any "dangerous substance" included on Lists I, II or Red List (set out in Annex 2 to this notice as updated by the Agency from time to time, and notified to the discharger in writing), or any other substance considered by the discharger as having or likely to have a significant effect on the receiving waters.

START DATE

14. There shall be no discharge under the terms of this consent until the 31st December 1997 or the end of commissioning of the works whichever is the sooner. The discharger shall give the Agency at least 28 days written notice before making the discharge.





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ANNEX 1

TABLE

<u>Column 1</u>	<u>Column 2</u>
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





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ANNEX 2

SUBSTANCE

Mercury
Cadmium
g-Hexachlorocyclohexane
DDT
Pentachlorophenol
Hexachlorobenzene
Hexachlorobutadiene
Aldrin
Dieldrin
Endrin
Polychlorinated Biphenyls
Dichlorvos
1,2 Dichloroethane
Trichlorobenzene
Atrazine
Simazine
Tributyltin compounds
Triphenyltin compounds
Trifluralin
Fenitrothion
Azinphos-methyl
Malathion
Endosulphan
Carbon tetrachloride
Chloroform
Trichloroethylene
Tetrachloroethylene
Lead
Chromium
Zinc
Copper
Nickel
Arsenic
Iron
pH
Boron

Vanadium
PCSDs
Cyfluthrin
Sulcofuron
Flucofuron
Permethrin
Cyanide
Azinphos-ethyl
Fenthion
Parathion
Parathion-methyl
Trichloroethane
Dioxins
Isodrin



PLAN
CQ 6366001

