

Water Resources Act 1991
as amended by the Environment Act 1995
Consent to Discharge
Certificate of Holder



**ENVIRONMENT
AGENCY**

Part A

To: DWR CYMRU CYFYNGEDIG
CONSENTS REGULATION OFFICER
PLAS-Y-FFYNNON
CAMBRIAN WAY
BRECON LD3 7HP

The Environment Agency ("the Agency") hereby confirm that the above named person is a/the registered holder of consent BG0009701

Nature of Discharge(s); SEWAGE EFF/TREATED EFF/CONTINUOUS
at MATHRY STW

Note: This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else you must pass the consent to them and tell the Agency within 21 days. **Responsibility for the consent cannot be disclaimed by the holder but the registration of holder may be transferred to a successor.** To do this please complete the form below, then tear it off and return it to the address shown. If you fail to transfer the consent, even though you are no longer on the site, you may still be liable for prosecution for pollution. If you transfer the consent but do not tell us, you will be committing an offence. In case of any queries please contact your local Environment Agency office.

Part B Please complete in block capitals or type.

To:

Water Resources Act 1991: Notice of transfer of consent to discharge

Consent:

Name:
Address:

I/We* hereby serve notice on the Agency that I/we* am/are* no longer a/the* Holder of the above consent which will be/was* transferred to:

* delete as appropriate

Name(s) of new holder(s):

Address:

Post Code:

Date of Transfer to new Holder(s):

Signed:

Dated:

Name (block capitals):

Position:

(to be completed when signing
on behalf of corporate bodies)



CONSENT NO.	BG0009701
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ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

WATER RESOURCES ACT 1991

SECTION 88 – SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

VARIATION OF CONSENT TO DISCHARGE

TO: Environment Quality Scientist
Dŵr Cymru Cyfyngedig
Pentwyn Road
Nelson
Treharris
CF46 6LY

In pursuance of an application by the consent holder for variation of consent, the **ENVIRONMENT AGENCY** ("The Agency") in pursuance of its powers under the Water Resources Act 1991 **HEREBY VARIES ITS CONSENT** to the making of a discharge **OF SEWAGE EFFLUENT**, as follows:

Secondary Treated Sewage Effluent incorporating the requirements of the Urban Waste Water Treatment Regulations 1994 (UWWTR)

with respect to Consent No. **BG0009701** issued on the 9th day of January 1982

FROM: MATHRY WASTEWATER TREATMENT WORKS

AT: MATHRY, NEAR FISHGUARD, PEMBROKESHIRE

TO: WESTERN CLEDDAU

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

Secondary Treated Sewage Effluent
UWWT Regulations 1994

Schedule No. BG0009701 01
Schedule No. BG0009701 01 / U

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

This variation of consent is issued on the 31st day of March, 2004 and takes effect on the 31st day of March 2004.

Signed Ged Davies

Ged Davies – Environment Management Team Leader



CONSENT NO.	BG0009701
SCHEDULE NO.	BG0009701 01
DATE ISSUED	March, 2004



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Agency Wales**

CONDITIONS OF CONSENT TO DISCHARGE

Secondary Treated Sewage Effluent ("the Discharge")

**FROM: MATHRY WASTEWATER TREATMENT WORKS, MATHRY, NEAR
FISHGUARD, PEMBROKESHIRE**

NATURE

1. The Discharge shall consist solely of secondary treated sewage effluent, which has been treated by passage through membrane filters.

LOCATION

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 200 millimetre diameter pipe;
 - (b) discharging to the Western Cleddau;
 - (c) at National Grid Reference SM 88339 31395;
 - (d) shown marked 'Consent Point' on Plan BG0009701 attached as Annex 3.

SAMPLE POINT

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference Reference SM 88241 31572, as shown marked 'Sampling Point' on Plan BG0009701, so that a representative spot sample of the Discharge may be obtained. The Consent Holder 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

4. The volume of the Discharge shall not exceed 538 cubic metres per day.
5. The Dry Weather Flow of the Discharge shall not exceed 151 cubic metres per day.

For the purpose of this condition Dry Weather Flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25 millimetres on any one day.

6. The rate of discharge shall not exceed 6.2 litres per second.



CONSENT NO.	BG0009701
SCHEDULE NO.	BG0009701 01



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ENVIRONMENT
AGENCY WALES

FLOW MEASUREMENT

7. A continuous flow monitoring and recording system, to a specification provided by the Agency, with on-site visual display from which readings can be readily obtained by the Agency, shall be provided and operated to record the daily volume and instantaneous flow of the discharge.
8. As soon as practicable after completion of the flow system installation the Consent Holder shall employ an independent expert to certify that the installation complies with the Agency's specification. The Consent Holder shall satisfy himself as to the professional competence of the expert. A copy of the certifier's report shall be provided to the Agency when it is available.
9. Records of the flow readings shall be maintained by the Consent Holder and shall be provided to the Agency when requested, in a format specified by the Agency.
10. The Consent Holder shall produce and maintain a quality control manual, approved by the independent expert and to the satisfaction of the Agency, specifying procedures for the calibration, operation and maintenance of the flow monitoring system. The flow system shall be calibrated, operated and maintained by the Consent Holder in accordance with the provisions of the manual. The Consent Holder shall keep a record of these procedures available for inspection by the Agency and provide a copy to the Agency on request.
11. The Consent Holder shall record all failures of the continuous flow system and any other breaks in the flow record. The reasons for these failures and breaks shall be recorded and all steps taken to prevent a re-occurrence. The Consent Holder shall ensure that as far as possible the recorder remains fully operational at all times. Any failures shall be remedied as soon as possible.
12. Flows passing forward to full treatment shall be measured at the final effluent sampling chamber, at National Grid Reference SM 88241 31572, or such other point(s) as agreed by the Agency.

COMPOSITION

13. (a) Subject to paragraph (b) below, the Discharge shall not contain more than:
 - (i) 32 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);
 - (ii) 57 milligrammes per litre of suspended solids (measured after drying at 105°C);
 - (iii) 7 milligrammes per litre of ammoniacal nitrogen (expressed as N).



CONSENT NO.	BG0009701
SCHEDULE NO.	BG0009701 01



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Environment
Agency Wales**

- (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.

MAINTENANCE

14. (a) A maintenance programme, including the method and frequency of cleaning and replacement of membrane filters, on-line turbidity meters, and flow meters, shall be undertaken by the Consent Holder. Details of the maintenance programme shall be provided to the Agency for agreement.
- (b) The Consent Holder shall keep records of the maintenance undertaken (both programmed and un-programmed). Copies of these records shall be maintained by the Consent Holder and kept conveniently available for inspection by the Agency's officers at all reasonable times.

WORKS OPERATION

15. The works shall be operated and the effluent shall be treated in a manner which, so far as reasonable practicable, minimises the polluting effects of the discharge made from the works on controlled waters.

This condition does not require -

- (a) any higher standard to be achieved in relation to any characteristic of the discharge which is specifically regulated by condition 13, than is required by that condition;
- (b) any alteration of the works or a change in the type of treatment used.

UNUSUAL WEATHER CONDITIONS

16. (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 13 and 14 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;



CONSENT NO.	BG0009701
SCHEDULE NO.	BG0009701 01



**ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales**

- (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 Consent Holder shall use its best endeavours to mitigate that adverse effect.
- (d) For a sample of the discharge to be considered for the purposes of (a) above, the Consent Holder 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

- 17. (a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.
- (b) On request the Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected effluent quality.

18. (a) Membrane Filtration Process Monitoring And Reporting

Continuous recorders, with on-site visual display from which readings may be readily obtained, shall be provided and maintained by the Consent Holder enabling:

- (i) the instantaneous effluent flow rate to be recorded at hourly, or more frequent intervals to be agreed in writing with the Agency;
- (ii) the instantaneous effluent turbidity after membrane filtration to be measured and recorded at hourly, or more frequent intervals to be agreed in writing with the Agency;
- (iii) Copies of the records shall be maintained by the Consent Holder for a minimum of 2 years (or such time as the Agency may from time to time specify) and be kept at a nominated place available for inspection by the Agency's officers at all reasonable times;
- (iv) The Consent Holder shall supply to the Agency, on a three-monthly basis, records of the turbidity and flow readings, in a format agreed with the Agency.



CONSENT NO.	BG0009701
SCHEDULE NO.	BG0009701 01



ASiantaeth Yr
Amgylchedd Cymru
ENVIRONMENT
AGENCY WALES

(b) Records Of Maintenance And Incidents Of Failure of Membrane Filtration

- (i) The Consent Holder shall supply to the Agency, on a three-monthly basis, records of the maintenance undertaken, including any details and an explanation of the circumstances where the agreed maintenance programme was not met;
- (ii) The Consent Holder shall supply to the Agency, on a three-monthly basis, a written report detailing all occurrences when at any time:
 - there were any failures of any measurement system used to control the membrane filtration system;
 - the external power supply to the membrane filtration system was interrupted;
 - where effluent turbidity exceeded 30 NTU (nephelometric turbidity units);
 - A discharge of sewage effluent was made which had not been subjected to treatment by membrane filtration.

The report shall detail the reasons why the situation occurred, and the actions taken by the Consent Holder. The report shall include an assessment of what measures can be adopted in the future to minimise such occurrences.

19. The Consent Holder shall notify the Agency in writing if any known or planned 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 from time to time and notified to the Consent Holder in writing), and any other substance considered by the consent holder as having or likely to have a significant effect on the receiving waters.

SUBSTANTIAL CHANGE

20. 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.
 - 20.1 A discharge of trade effluent into the works is new if -
 - (a) 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
 - (b) it is made by a third party and the discharge is authorised on or after that date.
 - 20.2 A discharge of trade effluent into the works is altered if –



CONSENT NO.	BG0009701
SCHEDULE NO.	BG0009701 01



**ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales**

- (a) 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
 - (b) it is made by a third party and the alteration of the discharge is authorised on or after that date.
- 20.3** 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 condition 13 of this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.
- 20.4** 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.

UNAUTHORISED DISCHARGES

- 21.** A discharge made from the works shall not contain any poisonous, noxious or polluting matter or solid waste matter which is attributable to any unauthorised discharge into the works.
- (a) A discharge into the works is unauthorised if it is made by a third party and either there is no obligation to receive it or conditions subject to which there is an obligation to receive it are not observed.
 - (b) Nothing in this, or any other, condition of this consent prevents anyone from relying on any defence available to them under section 87 of the Water Resources Act 1991.

TELEMETRY

- 22.** A telemetry alarm system connected to a 24-hour manned station shall be provided and maintained by the Consent Holder to provide a warning in the event that:
- (a) the external power supply to the treatment system has been interrupted;
 - (b) there has been a mechanical or control system breakdown;
 - (c) the effluent turbidity exceeds 30 NTU (nephelometric turbidity units)



CONSENT NO.	BG0009701
SCHEDULE NO.	BG0009701 01



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Environment
Agency Wales**

EMERGENCY NOTIFICATION

- 23.** The Consent Holder shall notify the Agency in the event of a Discharge of sewage effluent which has not been subjected to the required membrane filtration process. Such notification must be made as soon as practicable and no later than 24 hours after the event.

POWER

- 24.** Full stand-by power generation facilities shall be provided and maintained by the Consent Holder in good working order to enable automatic resumption of power to the membrane filtration system in the event of external power supply failure.



CONSENT NO.	BG0009701
SCHEDULE NO.	BG0009701 01 / U
DATE ISSUED	March, 2004



**ASiantaeth Yr
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Environment
Agency Wales**

CONDITIONS OF CONSENT TO DISCHARGE

Secondary Treated Sewage Effluent ("the Discharge")

**FROM: MATHRY WASTEWATER TREATMENT WORKS, MATHRY, NEAR
FISHGUARD, PEMBROKESHIRE**

URBAN WASTE WATER TREATMENT REGULATIONS

- U0**
 - (a) The Consent Holder shall comply with the Urban Waste Water Treatment (England and Wales) Regulations 1994 ('the Regulations').
 - (b) For the purpose of conditions U1 below, interpretations and references to a numbered regulation or Schedule shall have the meaning as in the Regulations, unless otherwise indicated.
- U1**
 - (a) The Discharge derives from an agglomeration with a population equivalent of less than 2,000, discharging to freshwaters.
 - (b) The Consent Holder shall inform the Agency 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 Agency in writing of the actual population equivalent.
 - (c) The Discharge shall be subject to Regulation 5(7) and shall satisfy the requirements of Regulation 5(8)(a).



CONSENT NO.	BG0009701
SCHEDULE NO.	BG0009701 01



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Environment
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ANNEX 1

TABLE

Column 1

Number of samples
taken in any period
of 12 months

4-7
8-16
17-28
29-40
41-53
54-67
68-81
82-95
96-110
111-125
126-140
141-155
156-171
172-187
188-203
204-219
220-235
236-251
252-268
269-284
285-300
301-317
318-334
335-350
351-365

Column 2

Maximum number of samples
permitted to exceed limit
for given determinand

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
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25

CONSENT NO.	BG0009701
SCHEDULE NO.	BG0009701 01



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ENVIRONMENT
AGENCY WALES

ANNEX 2

- | | |
|--|------------------------------|
| 1. Mercury and its compounds | 2. Cadmium and its compounds |
| 3. Hexachlorocyclohexane
(lindane and related compounds) | 4. Carbon tetrachloride |
| 5. DDT (the isomers of 1,1,1-trichloro-2,2 bis{p-chlorophenyl} ethane) | 7. Aldrin |
| 6. Pentachlorophenol (PCP) | 9. Endrin |
| 8. Dieldrin | 11. Hexachlorobenzene (HCB) |
| 10. Isodrin | 13. Chloroform |
| 12. Hexachlorobutadiene (HCBd) | 15. Dichlorvos |
| 14. Polychlorinated biphenyls | 17. Trichlorobenzene |
| 16. 1,2-Dichloroethane | 19. Simazine |
| 18. Atrazine | 21. Triphenyltin compounds |
| 20. Tributyltin compounds | 23. Fenitrothion |
| 22. Trifluralin | 25. Malathion |
| 24. Azinphos-methyl | 27. Lead |
| 26. Endosulfan | 29. Zinc |
| 28. Chromium | 31. Nickel |
| 30. Copper | 33. *Iron |
| 32. Arsenic | 35. *Boron |
| 34. *pH outside range 5.5 to 9.0 | 37. PCSD'S |
| 36. Vanadium | 39. Sulcofuron |
| 38. Cyfluthrin | 41. Permethrin |
| 40. Flucifuron | 43. 2-Chlorophenol |
| 42. 4-Chloro-3-methyl-phenol | 45. 2,4-D (ester) |
| 44. 2,4-D (non ester) | 47. 1,1,1-Trichloroethane |
| 46. 2,4-D (non ester) | 49. Bentazone |
| 48. 1,1,2-Trichloroethane | 51. Biphenyl |
| 50. Benzene | 53. Demeton |
| 52. Chloronitrotoluenes | 55. Linuron |
| 54. Dimethoate | 57. Mecoprop |
| 56. MCPA | 59. Napthalene |
| 58. Mevinphos | 61. Toluene |
| 60. Omethoate | 63. Xylene |
| 62. Triazophos | 65. Azinphos-ethyl |
| 64. Cyanide | 67. Parathion |
| 66. Fenthion | 69. Trichloroethylene |
| 68. Parathion-methyl | 71. Dioxins |
| 70. Tetrachloroethylene | 73. Nonyl phenol |
| 72. PAHs | 75. Di-ethylhexyl phthalate |
| 74. Nonyl phenyl ethoxylate | 77. Diazinon |
| 76. Bisphenol-A | 79. Chlorotoluron |
| 78. Chlorfenvinphos | 81. Diuron |
| 80. Isoproturon | 83. Flumethrin |
| 82. Propetamphos | 85. High-Cis Cypermethrin |
| 84. Amitraz | 87. Deltamethrin |
| 86. Cyromazine | |
| 88. Cypermethrin | |

This list is applicable as at 1 December 1998 and will be updated as and when changes to the relevant legislative requirements occur.

*Notification to the Agency by the Consent holder is only required in respect of changes to trade effluents likely to cause significant changes to the pH value, and/or iron or boron concentrations, of the crude sewage.



ANNEX 3

BG0009701

MATHRY WwTW FE, MATHRY, NEAR FISHGUARD, PEMBROKESHIRE

