

CONSENT NO.	NPSWQD004679
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**WATER RESOURCES ACT 1991**

**SECTION 88 - SCHEDULE 10**

**(AS AMENDED BY THE ENVIRONMENT ACT 1995)**

**CONSENT TO DISCHARGE**

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

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:

Secondary Treated Sewage and Trade Effluent incorporating the requirements of the Urban Waste Water Treatment Directive (UWWTD) Regulations

**FROM:** Amlwch Wastewater Treatment Works

**AT:** Amlwch, Ynys Mon, LL68 9DW

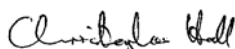
**TO:** Coastal Waters

**HEREAFTER SUBJECT TO** the conditions set out in the following schedule:

Secondary Treated Sewage and Trade Effluent    Schedule No. NPSWQD004679 01

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991(as amended by the Environment Act 1995), no notice shall be served by the Agency, altering this consent, without the agreement of the Consent Holder, during a period of 4 years from the date this notice is issued.

Dated this 2<sup>nd</sup> day of January 2009



Signed .....

Christopher Hall - National Permitting Team Leader

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<b>DATE ISSUED</b>	<b>2/01/09</b>

## **CONDITIONS OF CONSENT TO DISCHARGE**

**Secondary Treated Sewage and Trade Effluent ("the Discharge")**

**FROM: Amlwch Waste Water Treatment Works.**

### NATURE

1. The Discharge shall consist solely of Secondary Treated Sewage and Trade effluent.

### LOCATION

2. The Discharge shall be made in the manner and at the place specified as:
  - (a) discharging via a pipe;
  - (b) discharging to Coastal Waters;
  - (c) at National Grid Reference SH 45017 93771;
  - (d) shown marked 'Outlet' on Site Plan NPSWQD004679 attached to this consent as Annex 3.

### SAMPLE POINT

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SH 44906 93602, as shown marked 'Sample Point' on Site Plan NPSWQD004679 attached to this consent as Annex 3, so that a representative 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 4363 cubic metres per day.
5. The rate of Discharge shall not exceed 50.5 litres per second.
6. The Dry Weather Flow of the Discharge shall not exceed 1946 cubic metres per day

For the purpose of this condition Dry Weather Flow shall mean the average daily flow to the treatment works during five consecutive working 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.

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#### FLOW MEASUREMENT

7. A continuous flow measurement and recording system, to a specification provided by the Agency, shall be provided and operated to record the total daily volume, and the instantaneous or 15-minute integrated flow every 15 minutes of sewage through the treatment works. An on-site visual display from which instantaneous or 15-minute integrated flow readings can be readily obtained by the Agency shall be provided and operated. The Consent Holder shall hold records of the flow readings.
8. As soon as practicable after completion of the flow system installation and subsequently on the expiry of any certificate issued, the Consent Holder shall employ an independent expert to certify that the installation and its quality management system complies with the Agency's specification. The independent expert shall be accredited to a competency scheme approved by the Agency. A copy of the certificate shall be sent to the Agency and the certifier's report shall be provided to the Agency on request. If a certificate issued for a flow system has no expiry date included then the certificate shall be deemed to expire five years after the issue date of the certificate.
9. The Consent Holder shall produce and maintain a documented quality management system, approved by the independent expert and to the satisfaction of the Agency, specifying procedures for the calibration, operation and maintenance of the flow measurement equipment. The flow measurement equipment shall be calibrated, operated and maintained by the Consent Holder in accordance with the provisions of the QMS. 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.
10. The Consent Holder shall record all failures of the continuous flow measurement system and any other breaks in the flow record. The reasons for all significant failures and breaks, which lead to missing or suspect data, and all steps taken to prevent a re-occurrence shall be recorded and details shall be provided to the Agency on request. A failure or break is significant for the purposes of this condition if it prevents the calculation of the total daily volume to the required level of uncertainty. 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.
11. Records of the flow readings or the reasons for any breaks in the record, as described in condition 10 above, shall be provided to the Agency when requested, in a format specified by the Agency.
12. Flows of sewage through the treatment works shall be measured at the inlet flume, or such other point as agreed by the Agency.

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### COMPOSITION

13. (a) Subject to paragraph (b) below, the Discharge shall not contain more than:
- (i) 40 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.
14. The Discharge shall not contain more than:
- (a) 80 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);
  - (b) The Discharge shall not contain a pH value of more than 9.0 pH units or a pH value of less than 6.0 pH units.

### WORKS OPERATION

15. The works shall be operated and the effluent shall be treated in a manner which, so far as reasonably 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 conditions 13 to 14 than is required by those conditions;
- (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 contained in paragraphs 13, 14, and 15 of this consent have been complied with.

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- (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;
  - (ii) 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 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.

#### NOTICE OF CHANGE

- 18. 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 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

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# SUBSTANTIAL CHANGE

19. 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. 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.
21. A Discharge of trade effluent into the works is altered if:
  - (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.
22. 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 13 - 14 of this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.
23. 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.

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#### UNAUTHORISED DISCHARGES

24. 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.
25. 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.
26. 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.

#### MAINTENANCE

27. The sewage works shall be operated and maintained in accordance with good operational practice such that:
  - (a) it remains fully operational except at times of unavoidable mechanical or electrical breakdown which shall be attended to, and the Agency informed of the failure, as soon as practicable after the failure;
  - (b) following a failure all equipment shall be returned to normal operation as soon as practicable;
  - (c) tanks shall be desludged at sufficient frequency and in such a manner to prevent excessive carryover of suspended solids.

#### URBAN WASTE WATER TREATMENT REGULATIONS

28.
  - (a) The Consent Holder shall comply with the Urban Waste Water Treatment (England and Wales) Regulations 1994 ('the Regulations').
  - (b) For the purpose of condition 29 below, interpretations and references to a numbered regulation or Schedule shall have the meaning as in the Regulations, unless otherwise indicated.
29.
  - (a) The Discharge derives from an agglomeration with a population equivalent of less than 10,000 discharging to coastal waters.
  - (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 satisfy the requirements of Regulation 5(8)(a).

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START DATE

30. There shall be no discharge under the terms of this consent until the 31<sup>st</sup> December 2008 or the start of commissioning of the combined sewage overflow whichever is the sooner.



## ANNEX 1

TABLE

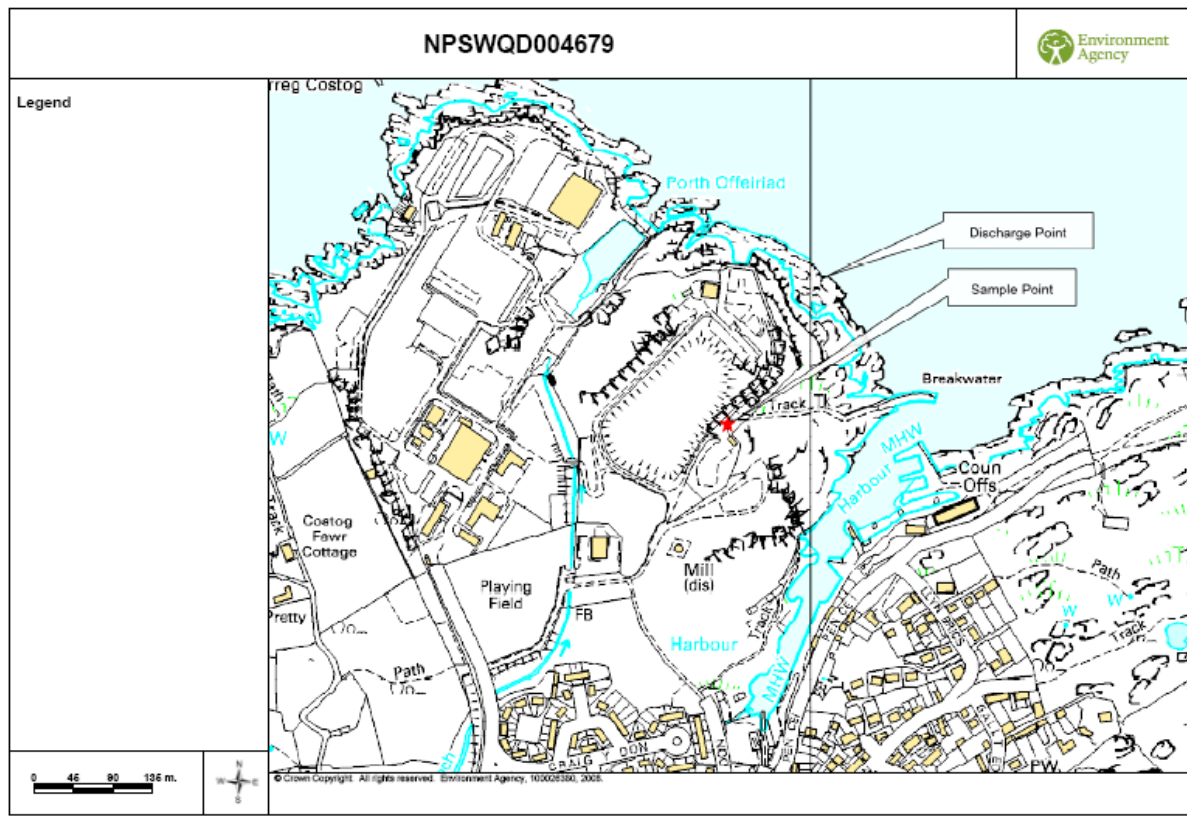
<u>Column 1</u>	<u>Column 2</u>
Number of samples taken in any period of 12 months	Maximum number of samples permitted to exceed limit for given determinand
4-7	1
8-16	2
17-28	3
29-40	4
41-53	5
54-67	6
68-81	7
82-95	8
96-110	9
111-125	10
126-140	11
141-155	12
156-171	13
172-187	14
188-203	15
204-219	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

## ANNEX 2

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

### ANNEX 3 - SITE PLAN NPSWQD004679



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