



ASiantaeth Yr  
Amgylchedd Cymru  
ENVIRONMENT  
AGENCY WALES

# Consent to Discharge

**Water Resources Act 1991**

**(As amended by the Environment Act 1995)**

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**Environment Quality Scientist  
Dŵr Cymru Cyf.  
Pentwyn Road  
Nelson, Treharris.  
CF46 6LY**

**Consent to Discharge from  
Ffairfach STW  
At NGR: SN 61590 21170**

**Consent Number  
BH0065401**





**Consent to Discharge**

Water Resources Act 1991  
Section 88, Schedule 10  
(as amended by the  
Environment Act 1995)

## Consent to Discharge

Consent Number BH0065401

To: Environment Quality Scientist  
Dŵr Cymru Cyf  
Pentwyn Road  
Nelson, Trehamis.  
CF46 6LY

The Environment Agency ("the Agency") in pursuance of its powers under Section 88 of, and Schedule 10 to the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby consents to the making of the following Discharge:

Secondary Treated Sewage Effluent - ("the Discharge")

From: Ffairfach STW

At: NGR: SN 615902 1170

To: Afon Tywi

Subject to the conditions set out in this Consent.

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 in writing of the Consent Holder, during a period of 4 years from the date this consent takes effect.

This Consent is issued on 31<sup>st</sup> day of March 2005

This Consent takes effect on 31<sup>st</sup> day of December 2005

Signed

TEAM LEADER – REGULATORY WATER QUALITY

ON BEHALF OF THE ENVIRONMENT AGENCY WALES



<b>CONSENT NO.</b>	<b>BH0065401</b>
<b>SCHEDULE NO.</b>	<b>BH0065401 01</b>
<b>DATE ISSUED</b>	<b>31<sup>st</sup> day of March 2005</b>

## **CONDITIONS OF CONSENT TO DISCHARGE**

### **Secondary Treated Sewage Effluent ("the Discharge")**

**FROM: Ffairfach STW**

### **NATURE**

1. The Discharge shall consist solely of secondary treated sewage effluent.

### **LOCATION**

2. The Discharge shall be made in the manner and at the place specified as:
  - (a) discharging via a pipe;
  - (b) Afon Tywi;
  - (c) at National Grid Reference SN 61590 21170;
  - (d) shown marked 'Consent Point' on Plan to be submitted by 31 December 2005.

### **SAMPLE POINT**

3. A sample point shall be provided by 31 December 2005 and maintained at National Grid Reference SN 61590 21170, or some other point as agreed in writing with the Agency, 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 being discharged into controlled waters.

### **VOLUME**

4. The volume of the Discharge shall not exceed 1800 cubic metres per day.
5. The Dry Weather Flow of the Discharge shall not exceed 601 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.

## COMPOSITION

6. (a) Subject to paragraph (b) below, the Discharge shall not contain more than:
- (i) 25 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).
  - (iii) 50 milligrammes per litre of ammoniacal nitrogen (expressed as N).
- (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.

## WORKS OPERATION

7. 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

8. (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;
  - (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**

- 9.
  - (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.
- 10. 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**

11. 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.
- 11.1 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.
- 11.2 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.
- 11.3 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.
- 11.4 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**

12. 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.

<b>CONSENT NO.</b>	<b>BH0065401</b>
<b>SCHEDULE NO.</b>	<b>BH0065401 01</b>
<b>DATE ISSUED</b>	<b>31<sup>st</sup> day of March 2005</b>

## **CONDITIONS OF CONSENT TO DISCHARGE**

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

**FROM: FFAIRFACH SEWAGE TREATMENT WORKS**

### **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 ~~other~~ 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).

**ANNEX 1**

**TABLE**

**Column 1**

**Column 2**

**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 (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 phenylmethoxylate	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.

\*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.

# REGISTER OF CONDITIONS

Revision, Consent No. 75, BH0065401  
File Ref:- GS: 351(6) No. 654

OLD CONSENT  
BN0194103

IMPOSED UNDER SECTION 7 OF THE RIVERS (PREVENTION OF POLLUTION) ACT, 1951  
(AS APPLIED BY THE CLEAN RIVERS (ESTUARIES AND TIDAL WATERS) ACT, 1960)  
AND THE RIVERS (PREVENTION OF POLLUTION) ACT, 1961.

CAT. No. R.R.12 SHAW & SHAW LTD., 30, WHITE LANE, E.C.4.

DATE ON WHICH CONDITION CAME INTO FORCE AND PERIOD OF EFFECT	FULL ADDRESS OR OTHER SUFFICIENT DESCRIPTION OF LAND OR PREMISES TO WHICH THE TERM OR CONDITION RELATES
14th October, 1966	<u>Llandefello Rural District Council.</u> <u>Discharge of treated effluent Llandefello Sewage Treatment Works.</u> <u>Review of Consent.</u>
USE OF NEW OR ALTERED OUTLET	DISCHARGE OF TRADE OR SEWAGE EFFLUENT
<p>CONDITIONS IMPOSED WITH RESPECT TO:-</p> <p>(i) PRECISE LOCATION OF OUTLET</p> <p>Outlet to be located on left bank of River Towy, map reference O.S. 2½" O.S. 2½" SW/62. Grid reference 6160 2115.</p> <p>(iii) CONSTRUCTION OF OUTLET (OTHER THAN CONDITIONS TO BE SATISFIED BEFORE OUTLET IS BROUGHT INTO USE)</p> <p>12" diameter cast iron pipe and to be accessible for sampling at all times.</p> <p>(iii) USE OF OUTLET</p> <p>restricted to sewage effluent</p> <p>(iv) USE OF ANY OTHER OUTLET FOR TRADE OR SEWAGE EFFLUENT FROM THE SAME LAND OR PREMISES</p> <p>REMARKS-</p>	<p>CONDITIONS IMPOSED WITH RESPECT TO:-</p> <p>(ii) NATURE AND COMPOSITION OF DISCHARGE</p> <p>pH value between 6 and 8.5 Suspended solids not more than 30 p.p.m. 5 day B.O.D. at 20°C not more than 20 p.p.m. Ammoniacal nitrogen (as N) not more than 8 p.p.m. To pass the methylene blue stability test (5 days at 20°C).</p> <p>(iii) TEMPERATURE OF DISCHARGE</p> <p>not to exceed 21°C. for stream water overflows max 16.0°C.</p> <p>(iii) VOLUME OR RATE OF DISCHARGE OF EFFLUENT FROM LAND OR PREMISES</p> <p>132,000 g.p.d. (a.w.f.) 396,000 g.p.d. (3 x a.w.f.) maximum</p> <p>* (iv) PROVISION OF FACILITIES FOR TAKING SAMPLES</p> <p>(iv) DATE OF EXPIRATION OF PERIOD SPECIFIED UNDER S.5(2) OF 1961 ACT</p> <p>31st October, 1968.</p> <p>REMARKS-</p>

Welsh Off Ref

Form SS.RW2

WWA HQ Ref

RW/0533/1/1

Sheet 1  
of 1

LOCAL GOVERNMENT ACT 1972      WATER ACT 1973  
RIVERS (PREVENTION OF POLLUTION) ACTS 1951-1961  
WATER AUTHORITIES (CONTROL OF DISCHARGES) ORDER 1978

NOTIFICATION OF VARIATION OF CONSENT  
for a discharge of treated sewage effluent

To : WELSH WATER AUTHORITY

This Notice is issued under the above-mentioned Acts and Order and all other enabling powers as a NOTICE DEEMED TO HAVE BEEN GIVEN BY THE SECRETARY OF STATE FOR WALES, in respect of the existing discharge of treated sewage effluent from the Authority's :

FFAIRFACH SEWAGE TREATMENT WORKS

via an existing outlet and subject hitherto to a previous consent as specified below.

THE EXISTING OUTLET is to : the Afon Tywi

at National Grid Reference : SN 6159 2117

and has been shown marked : Discharge Point

on the attached Plan, No. : RW/0533/1/1

THE PREVIOUS CONSENT was : the Consent      Reference No. -

granted on : 14th October 1966

by : South West Wales River Authority

to : Llandeilo Rural District Council

The Authority submitted this Notification of Variation on : 19th August 1981 to the Secretary of State for Wales in the form of a draft and the Secretary of State has NOT, within the relevant period, given notice of his intention to determine this matter. This discharge is therefore (in substitution for all the conditions hitherto in force) subject only to the following conditions as from : 19th November 1981

CONDITIONS

1. The discharge shall consist only of treated sewage effluent from the above works.
2. The quality and quantity of effluent shall not exceed the following maximum values:

<u>Determinand</u>	<u>Value</u>	<u>Unit</u>
Biochemical Oxygen Demand (+ATU) over 5 days at 20°C	30	milligrams per litre
Suspended Solids dried at 105°C	40	milligrams per litre
Ammoniacal Nitrogen as N	8	milligrams per litre

Rate of discharge	20.9	litres per second
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Volume during any period of 24 consecutive hours	1800	cubic metres
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Volume discharged under 'dry weather conditions' during any period of 24 consecutive hours	601	cubic metres
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3. Adequate facilities shall be provided for the taking of samples of the effluent at: the outlet from humus tank.

The terms of this Notice will not, without the consent in writing of the person to whom this Notice is given, (or his successor), be altered before the expiration of the period ending with the Nineteenth day of November 19 83.

This Notification is issued by the Directorate of Scientific Services, Headquarters, Welsh Water Authority, Cambrian Way, Brecon, Powys.

WEP/24/D5

3 Nov 84

CONSENT VARIATION

RIVERS (CONTROL OF POLLUTION) ACTS 1951-1961

THE WATER AUTHORITIES (CONTROL OF DISCHARGES) ORDER 1978

I am directed by the Secretary of State for Wales to refer to the discharge consent in respect of the .FEARFACH..... sewage treatment works dated .19... NOVEMBER. 1981.

The Secretary of State for Wales, having consulted with the Welsh Water Authority, hereby gives notice that in exercise of his powers under Articles 4(8) and 8 of the Water Authorities (Control of Discharges) Order 1978 (SI 1978 No 1210), the conditions imposed on the said consent shall be varied in the following terms:

CONDITIONS

The quality and quantity of effluent shall not exceed the following maximum values:

Biochemical Oxygen Demand (+ ATU) over 5 days at 20°C;.....100..... milligrammes per litre.

Suspended Solids dried at 105°C; .....150..... milligrams per litre.

Ammoniacal ammonia expressed as nitrogen .....5.0.....milligrams per litre.

Dry Weather Flow ..... ~~litres per second~~ or ..60.1..... metres cubed per day.

This variation takes effect from the ..30... January 1985.

This notice should be retained with the consent dated ..19... NOVEMBER 1981.

*George Roberts*  
WEP Division  
Welsh Office

**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 BH0065401

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

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: .....

