



WEPD/OD/46/D7

WO REF WEP/WS 9112/8

WELSH OFFICE

CONTROL OF POLLUTION ACT 1974: SECTIONS 34 & 55
THE CONTROL OF POLLUTION (DISCHARGES BY AUTHORITIES) REGULATIONS 1984
CONSENT FOR A DISCHARGE

WHEREAS

1. The WELSH WATER AUTHORITY (hereinafter referred to as 'the Water Authority') proposes to discharge biologically treated sewage effluent from the Solva Sewage Treatment Works to the Gribin Stream at national grid reference SM 8074 2414 as shown on the attached plan.
2. The proposals require the consent of the Secretary of State for WALES in pursuance of sections 34 and 55 of the Control of Pollution Act 1974 as modified by the Control of Pollution (Discharges by Authorities) Regulations 1984 (hereinafter referred to as 'the Regulations').
3. In accordance with the provisions of Regulation 2 of the Regulations the Water Authority have submitted the proposals to the Secretary of State in the form of an application for consent dated 10 September 1987.

THE SECRETARY OF STATE FOR WALES hereby consents to the proposed discharge subject to the conditions specified in the Schedule hereto attached.

Dated this 27th day of
October 1987

Signed P. R. Mander

On behalf of the Secretary
of State for Wales



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SCHEDULE

Conditions prescribed for the discharge of biologically treated sewage effluent to the Gribin Stream at the Solva Sewage Treatment Works.

"Sewage" can mean domestic sewage alone or in admixture with industrial waste water(s).

1. The nature of the effluent shall be biologically treated sewage effluent.
2. Adequate facilities shall be provided for the Secretary of State's representative so as to enable samples of the effluent to be conveniently obtained at grid reference SM 8074 2414.
3. The Welsh Water Authority shall take samples of the effluent in accordance with the relevant provisions of the Authority's sampling periodicity guidelines for the time being in force and approved for this purpose by the Secretary of State (and as may be indicated below) and shall keep records of such samples and the results of analyses thereof for inspection by the Secretary of State's authorised representative.
4. The volume of effluent under dry weather conditions shall not exceed 418 cubic metres in any period of 24 hours.
5. The maximum rate of flow discharged to the river at any time shall not exceed 19 litres per second. All sewage flow rates up to the maximum quoted above shall receive biological treatment.
6. The analytical methods used for determining compliance or otherwise with this consent shall be assumed to be those specified in the latest edition of "Methods for the Examination of Waters and Associated Materials" published by HMSO. Other methods of analysis may be used as alternatives to those specified in the above named publication providing that Secretary of State is



satisfied that they give comparable or better performance characteristics. Such other methods shall be submitted for approval to the Secretary of State together with all necessary supporting evidence.

7. The quality of the effluent discharged to the river at all flow rates up to the maximum quoted in 5 above, shall not be inferior to the following numerical quality limits (determinands) save as provided for in the Annex (by reference to the table included therein) to this Schedule.

7a. The Suspended Solids concentration (dried at 105 degrees Celsius) shall not exceed 30 milligrams per litre.

7b. The BOD (Biochemical Oxygen Demand) concentration determined in the presence of 0.5 milligrams per litre of allyl-thiourea shall not exceed 20 milligrams per litre.

7c. The ammoniacal nitrogen expressed as nitrogen shall not exceed 5 milligrams per litre.

8. A copy of this consent suitably protected against the weather shall be posted within the site of the works. Further copies shall be posted as and when required to maintain effective notice of the consent on the site of the works.

9. Any previous consents issued by the Secretary of State in respect of effluents to which this discharge relates shall be revoked and this consent shall be effective from the date indicated in this consent.



ANNEX

Where the number of samples taken in one year (that is from the 1 April to the 31 March) falls within any of the ranges given in Column 1 of the table below, the number of samples which are inferior to a specified numerical quality limit determinand set in Paragraph 7, shall not exceed the appropriate permitted number as listed in Column 2. A sample shall only be considered as having failed in relation to the particular determinand(s) for which the specified quality limit is exceeded. A sample shall be considered to be satisfactory in relation to other determinands, the concentration of which, are equal to or lower than the specified limit.

TABLE

Column 1	Column 2
Series of samples taken in any year	Maximum number of samples in which the same numerical quality limit may be exceeded.
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

TESTING INFORMATION

HQ Ref:

TESTING INFORMATION - required for all discharges									
Name of Discharger		WELSH WATER AUTHORITY							
Name & Location of STW, PWS, WWT or premises		SOLVA SEWAGE TREATMENT WORKS, SOLVA, DYFED							
Type of Effluent		Fully Treated Sewage							
Receiving Water (Name - Tidal)		Gribin Stream					OSGR of Outfall		SH 8074 2414
Receiving water in 1978 RQ Programme?		Upstream		1978 Class (NEC)		Short-term RQ		Long-term RQ	
NO		Downstream							
Existing Effluent Quality	Maximum	Int. BOD	BOD (APU)	S. Solids	Ammonia			Flow	
	Minimum							Design DWF	
	Mean							418 m ³ /d	
	90th %ile							Existing DWF	
	Median							317 m ³ /d	
	95th %ile							Maximum	
Consent		Existing		36	65			1642* m ³ /d	
Conditions		Proposed		20	30	5			158 DWF m ³ /d
Existing quality data from samples taken since 19									
Low river flow data:				Dilution of effluent at low river flow		River : Effluent			
5% low flow = 1818 m ³ /d						4.34 : 1			
Existing consent granted		W.W.A. First Stage Review Consent				By: Welsh Office		Date: 23.3.93	
ADDITIONAL INFORMATION - for sewers/STW serving >1000 pop'n. & other discharges >250 m ³ /d OR if adverse effect likely on PWS abstraction downstream OR if effluent puts receiving water down to a lower quality (sub)class									
Uses of receiving water downstream, giving type of use and distance, especially if affected by effluent in question		Flows for only 600m before reaching the sea. Supports brown trout but not a recognised fishery. Some stock watering just above the beach. The area is of exceptional scenic beauty and high amenity area within the Pembrokeshire National Park.							
Nature and overall proportion of significant trade effluent in sewage		NIL Discharge pipe to be 200mm ductile iron pipe.							
If discharge puts receiving water in lower quality (sub) class, state remedial works proposed and date(s)		*Flows of 6 x DWF (245m ³ /d) foul flow plus infiltration will be pumped to the works for treatment. 1470m ³ /d.							
Other Information:		Existing DWF 1984				Design DWF 2001			
Contract start date - Nov.84		P 986 resident				P 1332 residents			
Completion date - June 85		100 bed spaces visitors				122 bed spaces visitors			
Outfall - 200mm D.I. pipe		400 day visitors				400 day visitors			
		G 123 litres/hd/day residents				G 160 l/h/d residents			
		27 litres/hd/day visitors				35 l/h/d visitors			

Final Stage Review of Consents - Supporting Information (Cont.)

or discharge of _____

from _____

Additional Determinands in Consent

Existing Effluent Quality								
	Maximum							
	Minimum							
	Mean							
	St.Dev.							
	Median							
	95%ile							
Consent Conditions	Existing							
	Proposed							

Further Relevant Information from Division:

Division		Date		Div'n. Ref.	54/18/3
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For Directorate of Scientific Services and HQ use only

DSS Comments on Submission

Sign. & Date

ISO:

SG/TAA:

XC-OPS

OPS.COM

TO RP

TO WO

WO.COM

Other HQ Notes:



