

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 CG0080501

Nature of Discharge(s); SEWAGE EFF/TREATED EFF/CONTINUOUS
at
GARNEDDWEN 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:

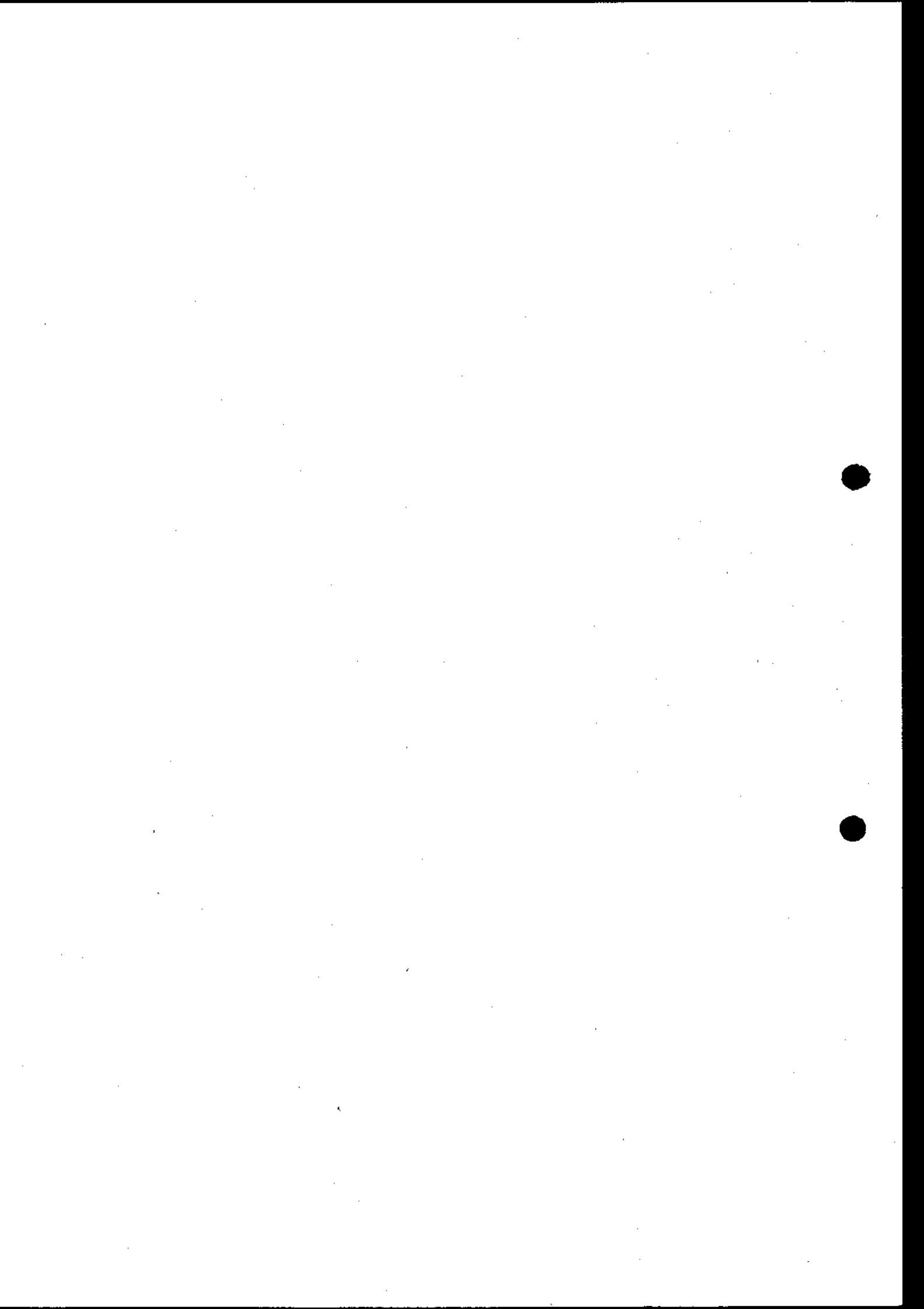
Date of Transfer to new Holder(s):

Signed:

Dated:

Name (block capitals):

Position:





ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

**ENVIRONMENT AGENCY WALES
NORTHERN AREA
CONSENT REVIEW 2004**

UWWTD

[URBAN WASTE WATER TREATMENT DIRECTIVE 1991]

FILE NOTE

A snapshot of WRA 91 Discharge Consents qualifying for review under UWWTD was extracted from WIMS (EA electronic Public Register) on the 21st April 2004. All details shown on this file note are based on the permission extant as of this date.

CONSENT REF :	CG0080501	VERSION :	2		
OPERATOR :	DWR CYMRU CYFYNGEDIG				
DISCHARGE SITE :	GARNEDDWEN STW				
EXTANT CONSENT ISSUE DATE :	17/05/1988	EFFECTIVE DATE :	17/05/1988		
DWF (m ³ /day) :	5.4	MAX DAILY VOL. (m ³ /day) :	16	RATE (l/s) :	

Records held on WIMS show GARNEDDWEN STW (CG0080501) to be extant under version 2 issued 17/05/1988 with descriptive consent conditions, effective 17/05/1988. The works is currently consented to discharge a max daily volume of 16m³/day effluent to the DULAS NORTH at NGR SH7645008740.

UWWTD directive aims to deliver a standard level of sewage treatment throughout EC member states. This has been interpreted as prescribing a minimum of secondary biological treatment (package plant or equivalent) on all discharges made to a controlled surface water; or a minimum of primary (septic tank or equivalent) treatment on all discharges made to ground.

The discharge of 16m³/day effluent to 'DULAS NORTH', for the purposes of this review, is described as 'secondary treated effluent to surface waters'. This treatment / receiving water combination has been assessed* as APPROPRIATE under the UWWTD review. This consent is reviewed as APPROPRIATE under UWWTD as of 01/09/2005.

* NB: the assessment of this Discharge Consent to meet UWWTD 'appropriate treatment' criteria is based solely on provision of the appropriate 'threshold' level of minimum treatment for the receiving medium. This review does not assess appropriateness in terms of the specific river needs of the receiving water stretch.

Iwan Williams
Regulatory Team Leader (Water Quality)



WEPD/S2/23/D7

WO REF WEP/WS 9111/18

WELSH OFFICE

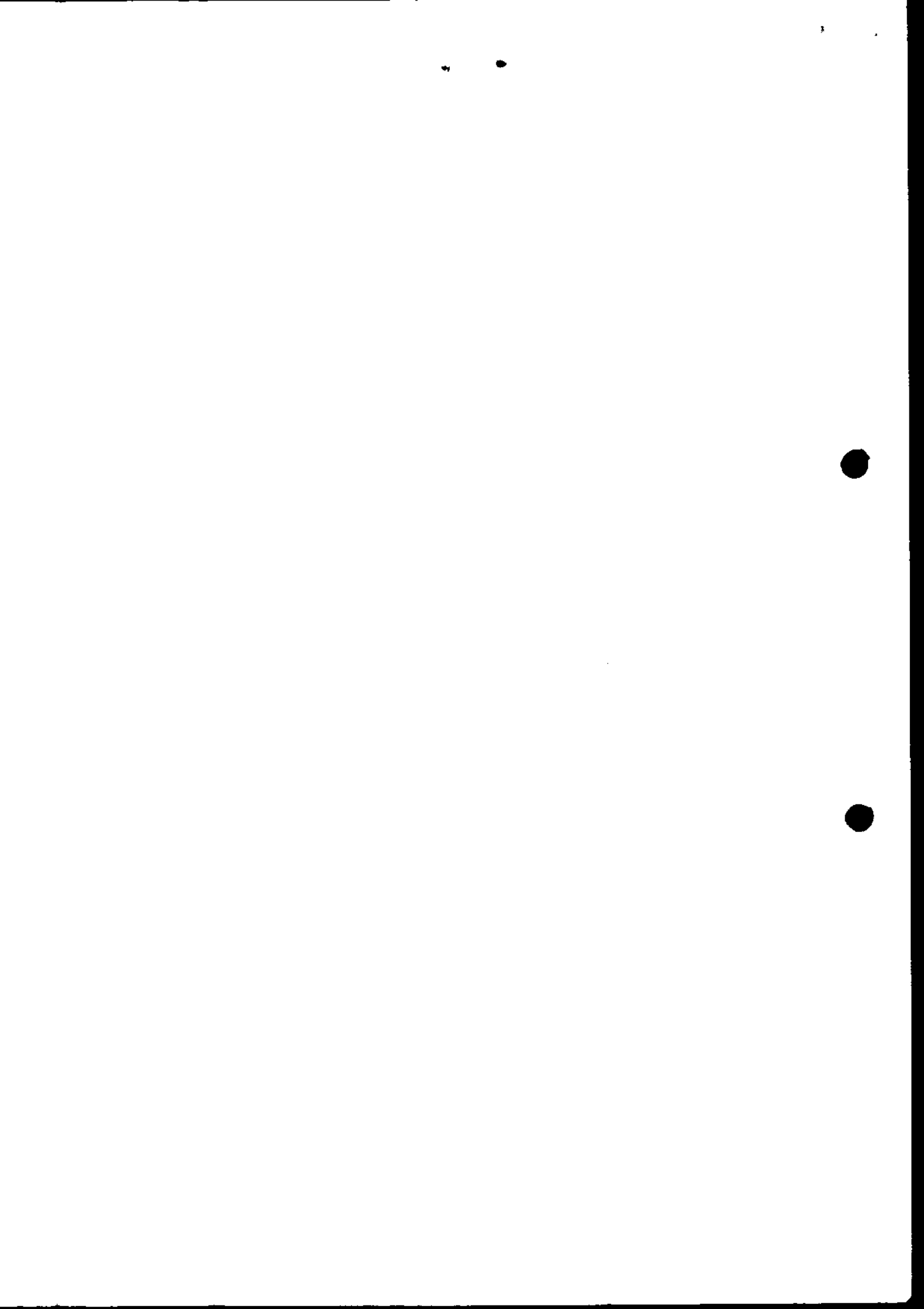
CONTROL OF POLLUTION ACT 1974: SECTIONS 34 AND 55
THE CONTROL OF POLLUTION (DISCHARGES BY AUTHORITIES) REGULATIONS 1984
CONSENT FOR A DISCHARGE

1. The Welsh Water Authority (hereinafter referred to as 'the Water Authority') proposes to discharge sewage effluent from the Garneddwen Sewage Treatment Works to the Afon Dulas North at National Grid Reference SH 7645 0874 in accordance with the application dated 24 March 1988.
2. The proposal requires the consent of the Secretary of State for Wales in pursuance of sections 34 and 55 of the Control of Pollution Act 1974 and the Control of Pollution (Discharges by Authorities) Regulations 1984.
3. THE SECRETARY OF STATE FOR WALES hereby consents to the proposed discharge subject to the discharge conforming at all times to the terms of the certificate attached hereto.

Dated this
May 1988

17 day of

Signed 
on behalf of the Secretary
of State for Wales



THE CONTROL OF POLLUTION ACT 1974: SECTION 34
THE CONTROL OF POLLUTION (DISCHARGES BY AUTHORITIES)
REGULATIONS 1984 (SI 1984 NO 1200)

CERTIFICATE TO BE SUBMITTED WITH A REQUEST FOR A
DESCRIPTIVE DISCHARGE CONSENT

On behalf of the Welsh Water Authority we certify that, in respect of the discharge from the Authority's sewage treatment works at GARNEDDWEN STW
GARNEDDWEN, MACHYNLLETH, POWYS
(National Grid Reference SH 76450874).

1. The effluent derives from domestic sewage from a population of 36 or less and contains no authorised trade waste.
2. There are no potable water supply intakes downstream which are likely to be adversely affected.
3. As far as is reasonably practicable, the works shall be operated so as to prevent:
 - i any matter being present in the effluent which will cause the receiving water to be poisonous or injurious to fish or to their spawn or spawning grounds or food or otherwise cause damage to the ecology of the receiving waters; and
 - ii the treated effluent from having any adverse visual and other environmental impact.
4. The authority will operate the works having regard so far as is relevant, to the guidance set out in the National Water Council's Occasional Technical Paper Number 4, "The Operation and Maintenance of Small Sewage Works" dated January 1980. In particular the works shall be maintained properly such that:
 - a. it remains fully operational except at times of mechanical or electrical breakdown;
 - b. any such breakdowns shall be attended to promptly and the equipment returned to normal operation as soon as possible; and
 - c. tanks shall be desludged at sufficient frequency and in such a manner as to prevent problems with septic sludge, rising sludge for excessive carryover of suspended solids.

Signed
(Name)
Divisional Operations Manager

Signed
(Name)
District Scientist

Dated this
Day of 21st March 198

CONTROL OF POLLUTION ACT 1974: SECTION 34

THE CONTROL OF POLLUTION (DISCHARGES BY AUTHORITIES)
REGULATIONS 1984 (SI 1984 No 1200)

APPLICATION FOR A CONSENT TO DISCHARGE
EFFLUENT FROM WORKS VESTED IN THE
WELSH WATER AUTHORITY

To: Water Administration, Water and Environmental Protection Division,
Room 2002, Cathays Park, Welsh Office, Cardiff CF1 3NQ

Name of Discharge GARNEDDWN STW, GARNEDDWN, MACHYNLLETH, POWYS

Division NORTH/WEST

I hereby apply for consent to the above named discharge the details of which
are contained in Form COPA 4 attached

Contact within the Authority R.P. Dale

Water Quality Officer

Date 23.3.88

F. Smith
Signed on behalf of the
Welsh Water Authority.

FOR WELSH OFFICE USE ONLY

Application and Certificate checked
Signed Date

Consent and Certificate issued
Signed Date

NOTES

WELSH WATER AUTHORITY				Welsh Office Form COPA4		Welsh Off Ref													
SUPPORTING INFORMATION FOR CONSENT/REVIEW - WWA Form SS.SI.1						Welsh W A Ref		CG0080501											
DISCHARGER +Agent		WELSH WATER AUTHORITY						WWA District		N / W									
PREMISES / SOURCE Address/Location		GARNEDDWEN STW, GARNEDDWEN, MACHYNLLETH, POWYS																	
DISCHARGE TYPE		FULLY TREATED SEWAGE EFFLUENT																	
DISCHARGE STATUS		New reqg Consent		Exg reqg Review		Exg reqg Consent		Prevly Exempt		Temply until									
CONSENT / REVIEW EXISTING - issued		To: WELSH WATER				By: WELSH OFFICE			Date: 30.1.85										
ADVERTISEMENT ?		Yes / No because:																	
OUTLET DETAILS		NEW/EXIST/Exg		OS Ref		SH76450874		Diam		mm Form									
SAMPLING POINT		TDIB SPT		OS Ref		Outlet /													
DISCHARGE IS TO		Inland Stream		☒ Landl.Pond		Onto Land		Into Land		Groundwtr	Estuary	Coastal							
RECEIVING WATER		Immediate / Main		DULAS NORTH / kms >															
Water in current		Data for :		Current Situatn		Short-term RQD		Long-term RQD		TDIB SPT Refs									
RQD Programme ?		Assessed by :		NWC Biol		NWC Biol		by		NWC Biol by		Up **/ Down							
Immed. Yes / No		Immed. Up / Down		1B / 3A		/		/		19		20123 / 20255							
Main Yes / No		Main Up / Down		/		/		/		19		/							
USE(S) OF THE RECEIVING WATER, whether surface or groundwater		Exg / Future Use(s)		PotWS		IndWS		AgrWS		Stock		SalfFish	CrsFish	WSports	VisAmen	Other			
		Of Immed R.W. @ km						0		0				0					
		Of Main R.W. @ km																	
		Effect of discharge on uses, etc.																	
EFFLUENT QUALITY DATA - derived from: 10 samples taken from: 01.01.82 to :		Determinand		BOD		SS		AMMONIA											
		Maximum		96		100		36											
		Minimum		4		3		0.5											
		Mean		26.7		25.8		10.92											
		Standard Deviation		28.29		28.31		11.16											
		Median / 50%ile																	
(mg/l except pH)		95%ile: N / LN / NP		103.77		101.75		58.97											
QUALITY LIMITS (mg/l except pH)		Existing		150		150		50											
S/W if seasonal		Proposed 95%ile		DESCRIPTIVE CONSENT															
1/2 if phased		Proposed Maximum																	
		Application																	
CALCULATION MODE		To Quality Spec'n																	
		Method used																	
EFFLUENT FLOW DATA		P Popul'n No.		G Consum'n m³/h/d		PG Sewage m³/d		I Infilt'n m³/d		E Trade m³/d		PG+I+E DWF m³/d		Storm Sewage O'flow Weir Setting x DWF 1/sec		Maximum Rate 1/sec		Maximum Daily Vol m³/d	
Existing Design																			
Hhas/Estd Current XXXX		36										5.4				0.2		16	
Proposed Design																			
Ultimate Design																			
Design Horizons: Proposed: Ultimate:		Sewerage system is % combined		Flow values for Consent Conditions		Existing		5.4								0.2		16	

SUPPORTING INFORMATION FOR A CONSENT / REVIEW (CONTINUED) Form SS.SI.1										Welsh Off Ref							
Relating to: GARNEDDWEN STW, GARNEDDWEN, MACHYNLLETH, POWYS										Welsh W A Ref CG0080501							
RIVER AND EFFLUENT FLOWS AND DILUTIONS			Flows in Immediate Receiving Water				Flows in Main Receiving Water										
Flows in m³/d. If estimated, give method:			Meas / Estd at OSGR:				Meas / Estd at OSGR:										
CATCHMENT COMPARISON			Minimum		5%ile		Mean		Minimum		5%ile		Mean				
Effluent Statistic		Source of Data		Effluent Volume		12018											
Dilution Ratios - expressed as x River : 1 Effluent																	
D.W.F.		Meas / Estd		5.4		2225											
Maximum		Meas / Estd															
RIVER REGIME		Width, Depth & Reaeration		W m D m R		W m D m R											
TREATMENT PLANT UNITS - with Critical Dimensions										Primary Sett.		Area m²					
Unit		Detail		Existing		Proposed		Ultimate		Storm Tanks		Area m²					
Storm S. Of flow		Set @ 1/s								" "		Volume m³					
Screens		Space mm								Septic Tank		Volume m³		✓			
Well Retent'n.		Hours								Biol. Filters		Media m³		✓			
Pumping Rate		Max. l/s								Act'd. Sludge #		Volume m³					
Gravity Feed		Yes / No								Package Plant		Surface m²					
Flow Meas't.		Yes / No								Pasveer Ditch		Volume m³					
Grit Removal		Yes / No								Final Sett't.		Area m²					
Macern/Comm.		Yes / No								Tert'y Treat.*		Area m²					
Other Units and Details		* Type # Power															
SLUDGE TREAT. AND DISPOSAL																	
TRADE WASTES Types & m³/d		NONE															
FURTHER DATA & STATEMENT From Dist/Div.																	
Additional conditions																	
Nearby efflts and changes																	
EC Dangerous Substances																	
EC Designated Waters																	
SSSIs																	
(Continue on Form SS.SI.2 if necessary)																	
CAPITAL WORKS		Outline Appra.				Second Appra.				Final Appra.				Start		Finish	
District Ref		64/10/S29				District Contact		R. P. Dale				HQWQS Ref					
For use by: HQ WATER QUALITY SECTION																	
For use by: WELSH OFFICE																	

CARNEDDOWEN J.I.W.

OSGR. SH. 7645 0874

FULLY TREATED SEWAGE EFFLUENT

ORDNANCE SURV

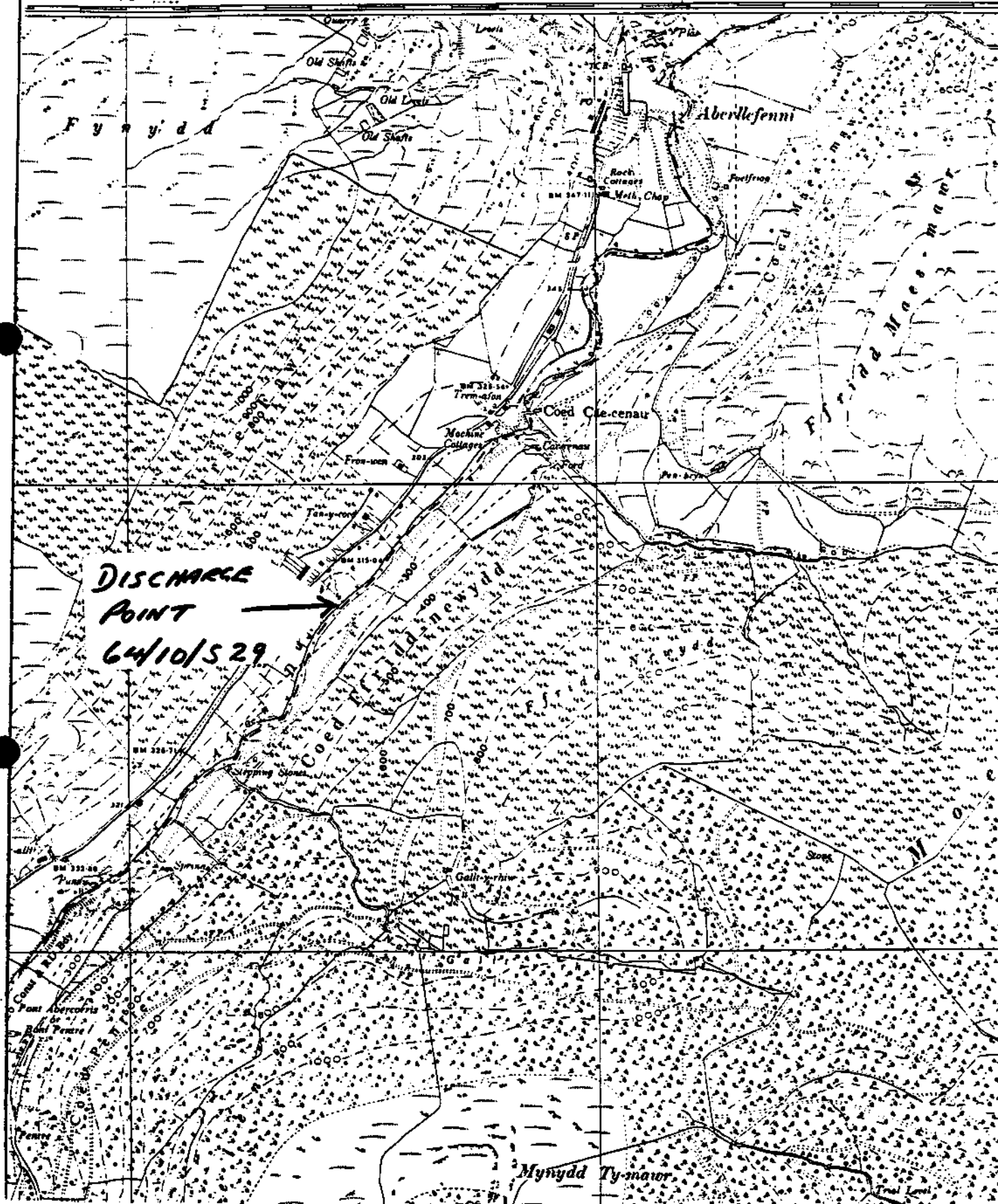
Scale 1:10,560 or 6 Inches to 1

C40080501

76 77

LONG
3° 50' W

77



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 GARNEDOWN... sewage treatment works dated .27...APRIL.... 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;150..... milligrammes per litre.

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

Ammoniacal ammonia expressed as nitrogen50.....milligrams per litre.

Dry Weather Flow ~~litres per second or~~ ...5.4... metres cubed per day.

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

This notice should be retained with the consent dated .27..APRIL...1981.

E. J. Roberts
WEP Division
Welsh Office

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 :

GARNEDDWEN SEWAGE TREATMENT WORKS

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

THE EXISTING OUTLET is to : the Afon Dulas (North)

at National Grid Reference : SH 7645 0874

and has been shown marked : Discharge Point

on the attached Plan, No. : RW/0270/1/1

THE PREVIOUS CONSENT was : the Consent

Reference No. - 205

granted on : 10th December 1970

by : Gwynedd River Authority

to : Dolgellau Rural District Council

The Authority submitted this Notification of Variation on : 27th January 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 : 27th April 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	20	milligrams per litre
Suspended Solids dried at 105°C	30	milligrams per litre

Rate of discharge	0.2	litres per second
Volume during any period of 24 consecutive hours	16	cubic metres
Volume discharged under 'dry weather conditions' during any period of 24 consecutive hours	5.4	cubic metres

3. Adequate facilities shall be provided for the taking of samples of the effluent at: the outlet to the Afon Dulas (North)

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 Twenty-Seventh day of April 19 83

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

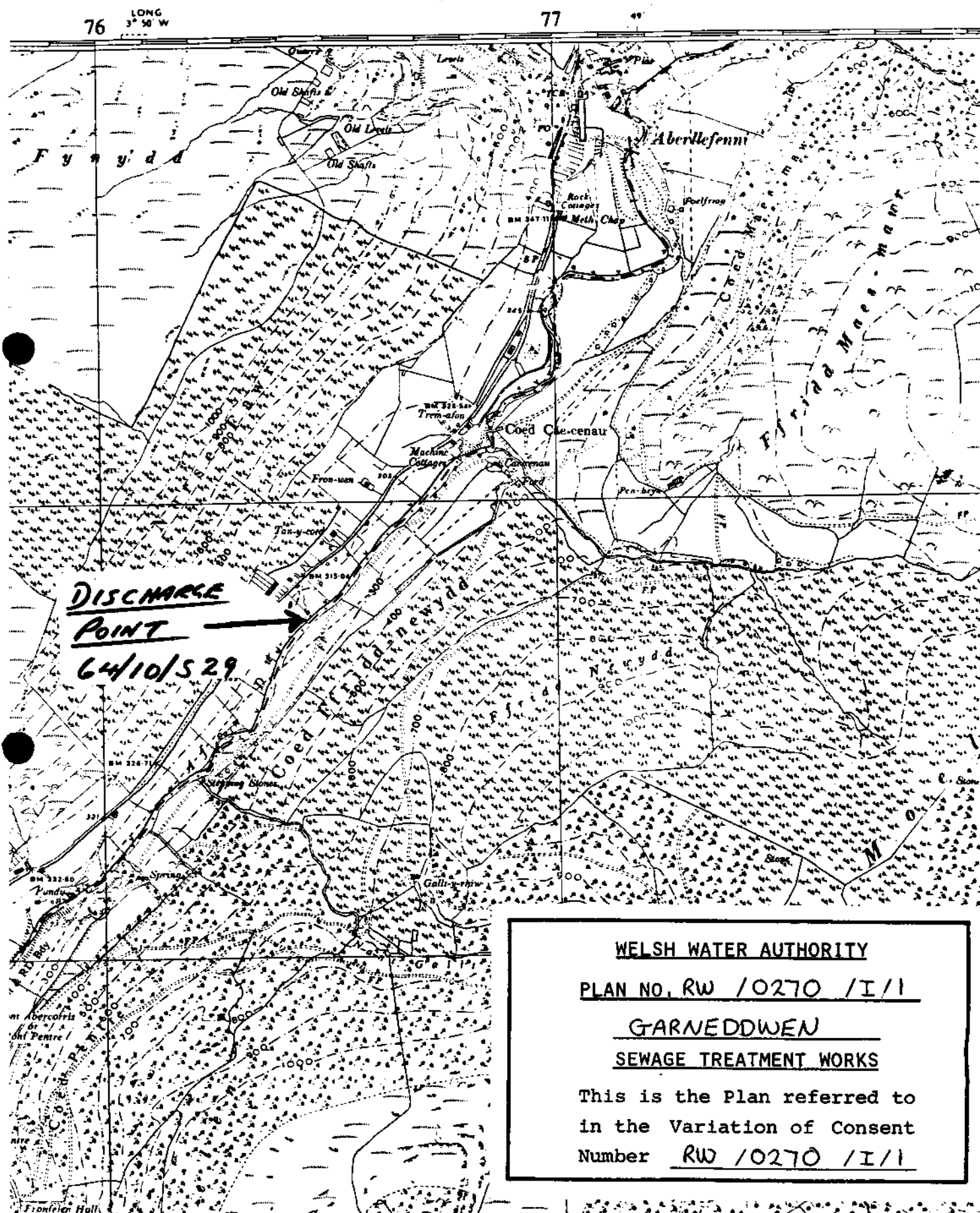
G. ARNEDDWHEN S.T.W.

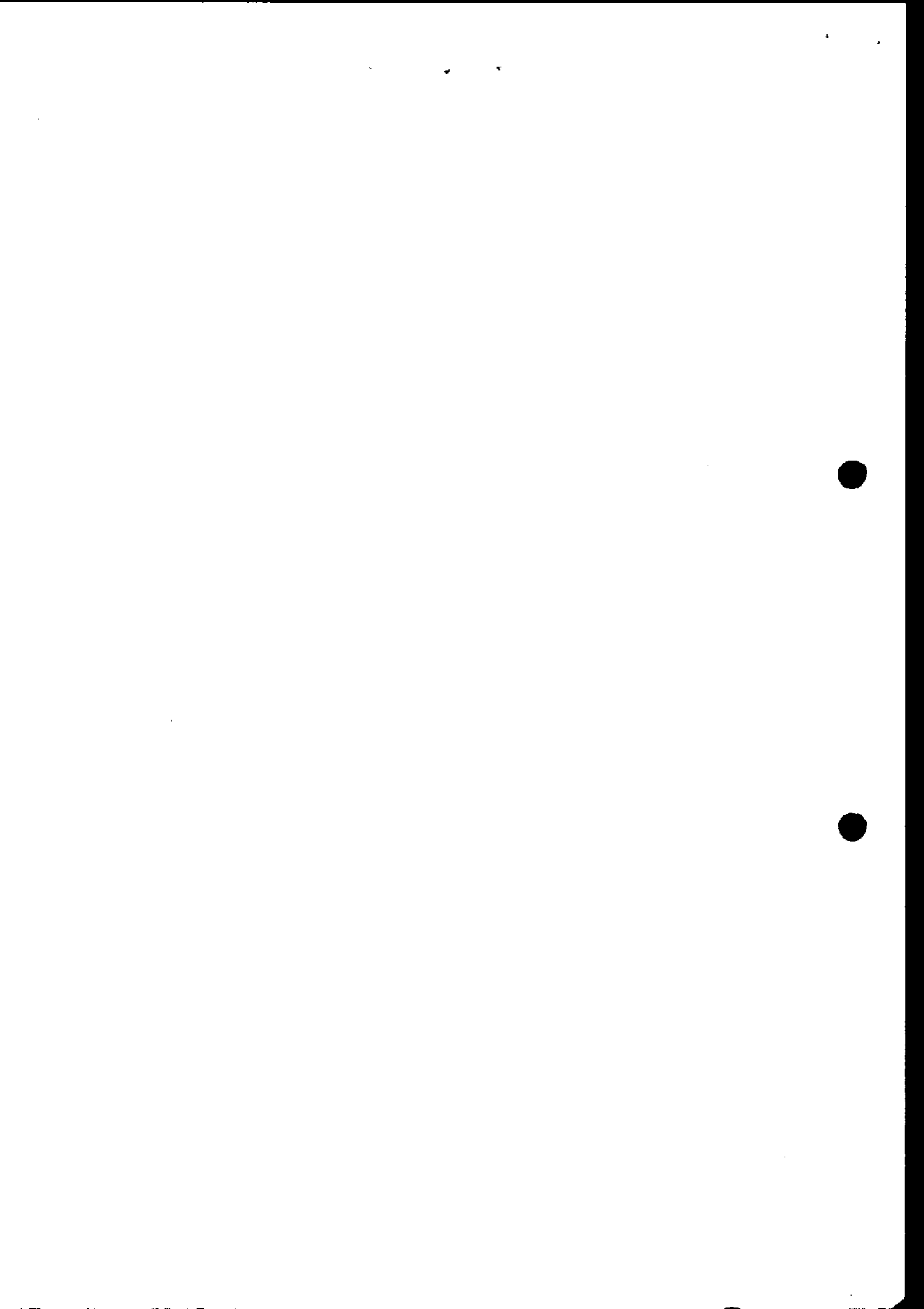
OSGR. SH. 7645 0874.

FULLY TREATED SEWAGE EFFLUENT

ORDNANCE SURVEY

Scale 1:10,560 or 6 Inches to 1 Mile





C.203/11. WF/25/12. W/AJ/AL.

10th December, 1970.

Dear Sir,

RIVER (PREVENTION OF POLLUTION) ACT, 1962
Section 18(1) - Consents.

With reference to your application of 15th October 1970, the Council River Authority, in pursuance of their powers under the above Act, hereby consent to the bringing into use of a new outlet for the discharge of treated sewage effluent and the making of a new discharge of treated effluent into Afon Dulais at a point opposite Llanfyllter, in accordance with the plans submitted and subject to the following conditions:-

1. The volume of the fully treated sewage effluent discharged under dry weather flow conditions shall not exceed 1,000 gallons in any period of 24 hours.
2. The treated effluent discharged shall at all times:
 - (a) Contain more than 30 parts per million suspended solids (dried at 105° C).
 - (b) Take up more than 20 parts per million of dissolved oxygen in 5 days at 20° C.
3. The outfall shall be so constructed that samples of the effluent can be readily taken at all times without interference with the stream water.

This consent will not, without the consent in writing of the Council, be altered or withdrawn, and this consent is given (on his consent), he agrees to the continuation of the period ending with the 31st day of December 1972.

Yours faithfully,

[Signature]
Clerk of the Authority

The Clerk,
Dolgellau Rural District Council,
Victoria Buildings,
DOLGELLAU,
Merioneth.

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