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|---------------|-------------|------------|-------------|
| Welsh Off Ref | Form SS.RW2 | WWA HQ Ref | RW/0190/1/1 |
|---------------|-------------|------------|-------------|

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 :

**LLANYCHAER SEWAGE TREATMENT WORKS**

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

**THE EXISTING OUTLET** is to : the Afon Gwaun  
at National Grid Reference : SM 9860 3557  
and has been shown marked : Discharge Point  
on the attached Plan, No. : RW/0190/1/1

**THE PREVIOUS CONSENT** was : the Consent                          Reference No. -  
granted on : 22nd January 1964  
by : South West Wales River Board  
to : Haverfordwest Rural District Council

The Authority submitted this Notification of Variation on : 17th July 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 : 17th October 1981

**CONDITIONS**

- The discharge shall consist only of treated sewage effluent from the above works.
- 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                                       | 39           | milligrams per litre |
| Suspended Solids dried at 105°C                                                            | 46           | milligrams per litre |
| Rate of discharge                                                                          | 1.2          | litres per second    |
| Volume during any period of 24 consecutive hours                                           | 98.4         | cubic metres         |
| Volume discharged under 'dry weather conditions' during any period of 24 consecutive hours | 16.4         | cubic metres         |

- Adequate facilities shall be provided for the taking of samples of the effluent at the outlet to the Afon Gwaun.

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 Seventeenth day of October 1982

## SUPPORTING INFORMATION

HQ Ref.

## A. BASIC INFORMATION - required for all discharges

|                                             |                      |          |                  |           |                |                 |                        |
|---------------------------------------------|----------------------|----------|------------------|-----------|----------------|-----------------|------------------------|
| Name of Discharger                          | W.W.A                |          |                  |           |                |                 |                        |
| Name & Location of STW SSO, WTW or premises | Llanychaer S T W     |          |                  |           |                |                 |                        |
| Type of Effluent                            | Fully Treated Sewage |          |                  |           |                |                 |                        |
| Receiving water (Non - Tidal)               | Afon Gwaun           |          |                  |           |                | OSGR of Outlet* | SM 9860 3550           |
| Receiving water in 1978 RQO Programme?      |                      |          | 1978 Class (NWC) |           | Short-term RQO |                 | Long-term RQO          |
|                                             | Upstream             |          | 1A               |           | -              |                 | 1A                     |
| Yes                                         | Downstream           |          | 1A               |           | -              |                 | 1A                     |
| Existing Effluent Quality                   |                      | Tot. BOD | BOD (ATU)        | S. Solids | Amn. N.        | pH              | Flow                   |
|                                             | Maximum              | 41       |                  | 41        | 22.8           |                 | Design DWF             |
|                                             | Minimum              | 1.6      |                  | 1.0       | 0.7            |                 | 16.4 m <sup>3</sup> /d |
|                                             | Mean                 | 15       |                  | 15        | 9.6            |                 | Existing DWF           |
|                                             | St. Dev.             | 9.1      |                  | 10.7      | 5.6            |                 | 9.6 m <sup>3</sup> /d  |
|                                             | Median               | 12.0     |                  | 11.0      | 7.4            |                 | Maximum                |
|                                             | 95%ile               | 38.3     |                  | 45.9      |                |                 | 98.4 m <sup>3</sup> /d |
| Consent Existing                            | 20                   |          | 30               | -         | 5-8.5          |                 | Weir Setting           |
| Conditions Proposed                         |                      | 39       | 46               | 20        | -              | -               | 1/s                    |
|                                             |                      |          |                  |           |                |                 | 16.4 m <sup>3</sup> /d |

Existing quality data from 47 samples taken since May 1977

Low river flow data: 5% ile = 14045.5 m<sup>3</sup>/d Dilution of effluent at low river flow River : Effluent 356 : 1

Existing Consent granted To: Haverfordwest R.D.C. By: S.W. Wales River Board Date: Jan. 1964

B. ADDITIONAL INFORMATION - for sewers/STW serving >1000 pop'n. & other discharges >250 m<sup>3</sup>/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 | Fisheries cattle watering amenity immediately downstream. River heavily wooded but very clean and fast flowing |
| Nature and overall proportion of significant trade effluent in sewage                                               | Nil                                                                                                            |
| If discharge puts receiving water in lower quality (sub) class, state remedial works proposed and date(s)           | -                                                                                                              |

Other Information: