



**ENVIRONMENT  
AGENCY**

## **Variation of Consent to Discharge**

Water Resources Act 1991 (as amended by the Environment Act 1995)

**Consent Holder(s)**

**Managing Director**

**Fairways Nursing Home**

**Lon – St –Ffraid**

**Treaddur Road**

**Treaddur Bay**

**Anglesey**

**LL65 3UD**

**Consent to Discharge from**

**Ceris Newydd Nursing Home**

**Treborth**

**Bangor**

**Gwynedd**

**LL57 2RQ**

**Consent Number**

**CG0392501**

**Consent to Discharge**

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



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AGENCY**

## Variation of Consent to Discharge

Consent Number

**CG0392501**

To:

**Managing Director** ("the Consent Holder(s)")

**Fairways Nursing Home**

**Lon – St – Ffraid**

**Treaddur Road**

**Treaddur Bay**

**Anglesey**

**LL65 3UD**

The Environment Agency ("the Agency") in pursuance of its powers under the Water Resources Act 1991(as amended by the Environment Act 1995) hereby varies its consent to the making of a discharge:

Of:

**Secondary treated sewage effluent and trade effluent disinfected by  
Ultra Violet (UV) irradiation** ("the Discharge")

**with respect to** Consent No. CG0392501 granted on the 6<sup>th</sup> day of  
April 2001

From:

**The sewage treatment plant and UV disinfection system**

At:

**Ceris Newydd Nursing Home, Treborth, Bangor, Gwynedd**

To:

**An unnamed stream**

Subject to the conditions set out in this notice of Consent to Discharge.

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 variation is issued.

This Variation of Consent is granted on: 2<sup>nd</sup> July 2008

This Variation of Consent takes effect on: 2<sup>nd</sup> July 2008

Signed

**Mel Bischer – National Permitting Team Leader**

- 1 **Conditions of Consent for secondary treated sewage and trade effluent disinfected by Ultra Violet (UV) irradiation**
- 1.1 Nature
  - 1.1.1 The Discharge shall consist solely of secondary treated sewage effluent and trade effluent disinfected by Ultra Violet (UV) irradiation
  - 1.1.2 For the purpose of this consent, “disinfection” is defined as the use of a process designed specifically to reduce the number of viable, potentially infectious micro-organisms in the effluent.
  - 1.1.3 The Discharge shall be disinfected by means of a broad spectrum medium pressure artificial UV source with at least 85% of available UV irradiation emitted in the wavelength range 200 to 300nm (MEDIUM PRESSURE LAMP) or UV irradiation from an artificial source with at least 85% of the available radiation emitted in the wavelength range 250 to 260nm (LOW PRESSURE LAMP). An applied UV dose of 30 mJ/cm<sup>2</sup> (calculated at a theoretical UV transmittance of 45%) must be exceeded.
- 1.2 Period of disinfection
  - 1.2.1 The disinfection of the effluent by means of UV irradiation is required throughout the year.
- 1.3 Place of Discharge
  - 1.3.1 The Discharge shall be made in the manner and at the place specified as:
    - a discharging to an unnamed tributary of the Menai Straits;
    - b at National Grid Reference SH 55541 71224;
    - c shown marked “OUTLET” on the Site Plan attached to this consent.
- 1.4 Sampling Point Requirements
  - 1.4.1 The outlet to controlled waters shall be constructed and maintained so that a representative sample of the Discharge may be obtained at National Grid Reference SH 55541 71224 as shown marked “OUTLET” on the Site Plan attached to this consent.
- 1.5 Volume
  - 1.5.1 The volume of the Discharge shall not exceed 29.6 cubic metres per day.
- 1.6 Flow Measurement
  - 1.6.1
    - a **At the request of the Agency**, the Consent Holder shall install, operate and maintain a means of flow measuring to a specification and at a location required by the Agency, to enable the daily volume and/or instantaneous flow of sewage through the sewage treatment plant to be recorded.
    - b The Consent Holder shall calibrate, operate and maintain the flow monitoring and recording system to a standard agreed or specified by the Agency. The flow and maintenance records shall be provided to the Agency as and when requested.

1.7 Composition

1.7.1 The Discharge shall not contain more than:

- a 20 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea)
- b 30 milligrammes per litre of suspended solids (measured after drying at 105°C)
- c 20 milligrammes per litre of ammoniacal nitrogen (expressed as N)

1.7.2 As far as is reasonably practicable, the sewage treatment plant shall be operated so as to prevent the Discharge from containing any visible oil or grease.

1.8 Urban Waste Water Treatment Regulations

1.8.1

- 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 1.8.2 below, interpretations and references to a numbered regulation or Schedule shall have the meaning as in the Regulations, unless otherwise indicated.

1.8.2

- 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 satisfy the requirements of Regulation 5(8)(a).

1.9 British Standard

1.9.1 The sewage treatment plant shall conform to all relevant British Standards in place at the time of installation.

1.10 Works Operation

1.10.1 The sewage treatment plant 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 plant 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 1.7.1 and 1.7.2 above than is required by those conditions;
- b any alteration of the sewage treatment plant or a change in the type of treatment used.

1.11 Maintenance

1.11.1 The sewage treatment plant 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.

1.12 Maintenance of the Ultra Violet Disinfection System

1.12.1

The Consent Holder shall instigate a maintenance programme in line with the supplier's design specification requirements. A copy of the programme is to be supplied to the Agency for agreement prior to commissioning of the system.

1.13 Emergency notification

1.13.1

The Consent Holder shall notify the Agency in the event of a Discharge of sewage effluent which has not been subject to UV treatment. Such notification must be made as soon as practicable and no later than 24 hours after the event, and a report providing an explanation of the circumstances provided to the Agency within 2 weeks.

1.14 Alarm System

1.14.1

A visual audible alarm system shall be provided and maintained by the Consent Holder to provide a warning in the event that failure of the UV dosing system has occurred.

1.15 Recording and Reporting

1.15.1

- 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.
- c The Consent Holder shall as soon as reasonably practicable report to the Agency all non-routine actions that may have adversely affected effluent quality.

Site Plan

