

Consent to discharge

Water Resources Act 1991 (as amended by the Environment Act 1995)
Groundwater Regulations 2009

Consent holder	Vale of Glamorgan Council
	Public Housing Services
	Civic Offices
	Holton Road
	Barry
	CF63 4RU
Consent to Discharge from	Marcross Sewage Treatment Works
	Marcross
	Llantwit Major
	CF61 1ZG
Consent number	NPSWQD009606

Consent to discharge

Water Resources Act 1991
Section 88, Schedule 10
(as amended by the
Environment Act 1995) and the
Groundwater Regulations 2009



**ENVIRONMENT
AGENCY**

Consent to discharge

Consent number
NPSWQD009606

To:
Vale of Glamorgan Council ("the Consent Holder")
Public Housing Services
Civic Offices
Holton Road
Barry
CF63 4RU

The Environment Agency ("the Agency") in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) and the Groundwater Regulations 2009 hereby consents to the making of a discharge:

Of:
Tertiary treated sewage effluent containing no trade effluent ("the Discharge")

From:
Marcross sewage treatment works

At:
Marcross, Llantwit Major

To:
Ground Waters, via a reed bed and infiltration system

Subject to the conditions set out in this notice of consent to discharge.

Under the provisions of the Groundwater Regulations 2009, the Agency may review this Consent and may vary or revoke the Consent in writing at any time.

This Consent is granted on: 26th February 2010

This Consent takes effect on the date specified in Condition 1.11 of this Consent.

Signed

Christopher Hall - National Permitting Team Leader

1 Conditions of consent for tertiary treated sewage effluent containing no trade effluent

Definitions

References to ground waters and groundwater in this Consent have the following meaning:

- *ground waters* are controlled waters in accordance with Section 104(1) (d) of the Water Resources Act 1991, i.e. any waters contained in underground strata (above or below the zone of saturation).
- *groundwater* is water below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil as defined in Regulation 2(1) of the Groundwater Regulations 2009.

1.1 Nature of effluent

- 1.1.1 The Discharge shall consist solely of tertiary treated sewage effluent containing no trade effluent.

1.2 Place of discharge

- 1.2.1 The discharge shall be made in the manner and at the place specified as:

- a discharging to ground waters via a reed bed and infiltration system;
- b at National Grid Reference SS 91903 68863;
- c shown marked "OUTLET" on Site Plan attached to this Consent.

- 1.2.2 The infiltration system shall be constructed to comply with the following:

- a no part of the infiltration system constructed shall be more than 2 metres below ground level;
- b no part of the infiltration system shall be less than 1 metre above the highest predicted annual groundwater level;
- c the infiltration system shall not connect to any watercourse or land drainage system;
- d no part of the infiltration system shall be within 50 metres of a well or borehole used for water supply.

1.3 British Standard

- 1.3.1 The sewage treatment plant and infiltration system shall conform to all relevant British Standards in force at the time of installation.

1.4 Sampling Point Requirements

- a An appropriately labelled sample point shall be provided and maintained at National Grid Reference SS 91899 68872, as shown marked 'Discharge Sample point' on the attached Site Plan NPSWQD009606, or some other point as agreed in writing with the Agency, so that a representative sample of the Discharge may be obtained.
- b The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times.

1.5 Volume

- 1.5.1 The volume of the Discharge shall not exceed 8 cubic metres per day.

1.6 Composition

1.6.1

The discharge shall not contain more than:

- i 20 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea)
- ii 20 milligrammes per litre of ammoniacal nitrogen (expressed as N)

1.6.2

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.

1.7

Groundwater Regulations: Hazardous substances and non-hazardous pollutants

1.7.1

All necessary and reasonable measures shall be taken to prevent the input of hazardous substances to groundwater by avoiding the entry of those substances into groundwater and by avoiding any significant increase in their concentration in groundwater.

(Hazardous Substances are as set out in the Appendix to this Consent).

1.7.2

The input of all non-hazardous pollutants to groundwater shall be restricted to minimise the impact on and prevent pollution of groundwater.

(Non-hazardous pollutants are as set out in the Appendix to this Consent).

1.8

Maintenance

1.8.1

The works 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 Environment 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 to maintain their effective operation and in such a manner to prevent excessive carryover of suspended solids.

For the reed bed:

- d reed density is maintained and weeds are kept to an acceptable level on the reed bed;
- e ensure effective and even distribution of the sewage feed;
- f ensure that the sewage flow does not by-pass or short circuit within the reed bed;

- g ensure that the discharge is collected and discharged at a single point.

1.9 Works Operation

- 1.9.1 The works 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 works on controlled waters.

This condition does not require -

- (i) any higher standard to be achieved in relation to any characteristic of the discharge which is specifically regulated by 1.6.1 than is required by those conditions;
- (ii) any alteration of the works or a change in the type of treatment used.

1.10 Recording and reporting

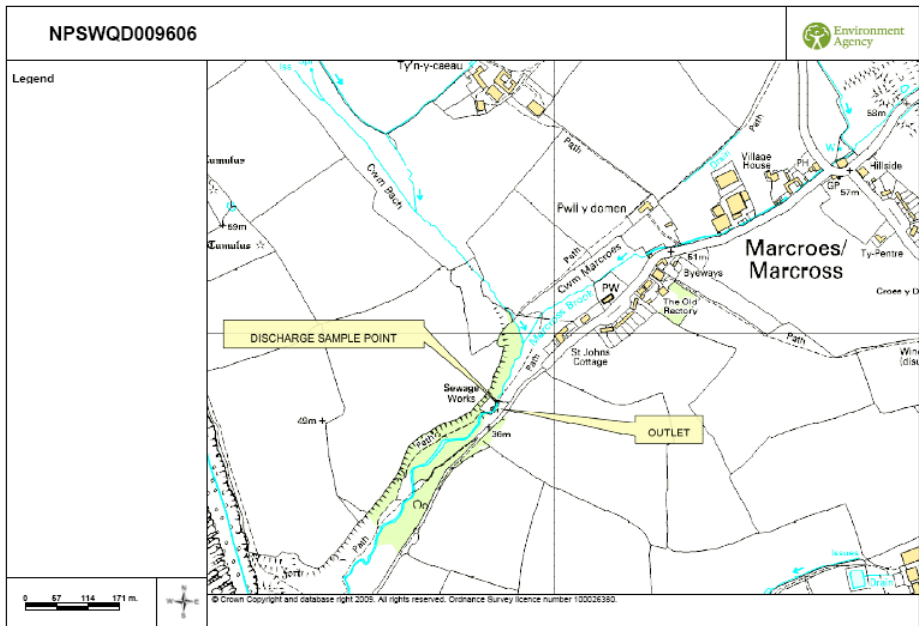
1.10.1

- a The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine events 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 events that may have adversely affected effluent quality.

1.11 Start Date

- 1.11.1 The Consent shall come into effect on 1st of March 2010.

2 Site plan



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3 Appendix

Substances to be controlled under the Groundwater Regulations 2009.

Hazardous substances

A hazardous substance is any substance or group of substances that are toxic, persistent and liable to bio-accumulate.

This includes in particular the following when they are toxic, persistent and liable to bio-accumulate—

- (a) organohalogen compounds and substances which may form such compounds in the aquatic environment;
- (b) organophosphorous compounds;
- (c) organotin compounds;
- (d) substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment;
- (e) persistent hydrocarbons and persistent and bioaccumulable organic toxic substances;
- (f) cyanides;
- (g) metals (in particular cadmium and mercury) and their compounds;
- (h) arsenic and its compounds;
- (i) biocides and plant protection products.

Non-hazardous pollutants

A non-hazardous pollutant is any pollutant other than a hazardous substance.

Note:

Note: In accordance with the Groundwater Regulations 2009, the Agency publishes a list of those substances that it considers to be hazardous for the purposes of these regulations on its website (www.environment-agency.gov.uk) together with the criteria for determining toxicity, persistence and bioaccumulation. Alternatively you may also request this information by telephoning the National Customer Contact Centre enquiry line on 08708 506506.