

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

Sec out P. 10/10
In 02 + 03

The Environment Agency ("the Agency") hereby confirm that the above named person is a/the registered holder of consent BG0033101

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



CONSENT NO. BG0033101



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WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

VARIATION OF CONSENT TO DISCHARGE

TO: Environment Quality Scientist
Dŵr Cymru Cyfyngedig
Plas y Ffynnon
Cambrian Way
Brecon
LD3 7HP

In pursuance of an application by the consent holder for variation of consent, the ENVIRONMENT AGENCY ("The Agency") in pursuance of its powers under the Water Resources Act 1991 **HEREBY VARIES ITS CONSENT** to the making of a discharge OF SEWAGE EFFLUENT, as follows:

SECONDARY TREATED SEWAGE EFFLUENT

with respect to Review of Consent No. BG0033101 issued on the 29th day of June 1994

FROM: MILFORD HAVEN WASTE WATER TREATMENT WORKS

AT: THE DOCKS, MILFORD HAVEN

TO: ESTUARIAL WATERS IN MILFORD HAVEN WATERWAY

HEREAFTER SUBJECT TO the conditions set out in the following schedule(s):

SECONDARY TREATED SEWAGE EFFLUENT Schedule No. BG0033101 01

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991, no notice shall be served by the Agency, which affects the effect of variations made to this consent, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this variation is issued.

This variation of consent is issued and takes effect on the 24 day of May 1998

Signed

Area Environment Planning Manager

Asiantaeth yr Amgylchedd Cymru
Glan Tawe, 154 Ffordd Sant Helen, Abertawe. SA1 4DF. Ffon 01792 645300. Ffacs 01792 648452

Environment Agency Wales
Glan Tawe, 154 ST Helens Road, Swansea. SA1 4DF. Tel 01792 645300 Fax 01792 648452



CONSENT NO.	BG0033101
SCHEDULE NO.	BG0033101 01
DATE ISSUED	8 May 1998



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CONDITIONS OF CONSENT TO DISCHARGE

SECONDARY TREATED SEWAGE EFFLUENT ("the Discharge")

FROM: MILFORD HAVEN WASTE WATER TREATMENT WORKS, THE DOCKS, MILFORD HAVEN

NATURE

1. The Discharge shall consist solely of secondary treated sewage effluent.

LOCATION

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 555mm diameter pipe;
 - (b) discharging to Milford Haven Waterway;
 - (c) at National Grid Reference SM 8976 0498;
 - (d) shown marked 'Consent Point' on Plan No. **BG0033101** attached as Annex 3;

SAMPLE POINT

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SM 8993 0627 as shown marked 'Sampling Point' on Plan No. **BG0033101** so that a representative sample of the Discharge may be obtained. The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.

VOLUME

4. The volume of the Discharge shall not exceed 10950 cubic metres per day.



CONSENT NO.	BG0033101
SCHEDULE NO.	BG0033101 01



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5. The Dry Weather Flow of the Discharge shall not exceed 3850 cubic metres per day.

For the purpose of this condition Dry Weather Flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25 millimetres on any one day.

6. The rate of discharge shall not exceed 191 litres per second.
7. (a) A flow measurement structure shall be provided and maintained to enable the daily volume and instantaneous flow rate of the Discharge to be measured or determined as required.
- (b) In addition to the basic measurement structure, a continuous flow recorder, to an agreed specification, with on-site visual display from which readings can be readily obtained, shall be provided and maintained to enable the daily volume and instantaneous flow of the Discharge to be recorded.
- (c) Copies of the readings shall be maintained by the Consent Holder and kept available for inspection by the Agency.
- (d) The recorder shall be calibrated and maintained on a regular basis to ensure that it is reading to an agreed standard. The Consent Holder shall keep a record of the calibration results available for inspection by the Agency.

COMPOSITION

8. (a) Subject to paragraph (b) below, the Discharge shall not contain more than:
- (i) 50 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);
- (ii) 60 milligrammes per litre of suspended solids (measured after drying at 105°C).
- (b) The limit for any of the relevant parameters set out in paragraph 10(a) above may be exceeded where, in any series of samples of the Discharge taken at regular but randomised intervals in any period of twelve consecutive months as listed in Column 1 of the table at Annex 1 to this consent, no more than the relevant number of samples, as listed in Column 2 of the said table, exceed the applicable limit for that relevant parameter.



CONSENT NO.	BG0033101
SCHEDULE NO.	BG0033101 01



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9. The Discharge shall not contain more than:
- (a) 100 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea).
 - (b) 150 milligrammes per litre of suspended solids (measured after drying at 105°C).

WORKS OPERATION

10. The works shall be operated and the effluent shall be treated in a manner which, so far as reasonable practicable, minimises the polluting effects of the discharge made from the works 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 8 and 9, than is required by those conditions;
- (b) any alteration of the works or a change in the type of treatment used.

MAINTENANCE

11. 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 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.

UNUSUAL WEATHER CONDITIONS

12. (a) No sample of the discharge, taken at a time when unusual weather conditions are adversely affecting the operation of the sewage treatment works, shall be taken into account in deciding whether or not the conditions contained in paragraphs 8, 9 and 10 of this consent have been complied with.



CONSENT NO.	BG0033101
SCHEDULE NO.	BG0033101 01



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- (b) For the purpose of this condition "unusual weather conditions" shall include:
- (i) low ambient temperatures as evidenced by effluent temperatures of 5°C or less, or by the freezing of mechanical equipment in the works;
 - (ii) significant snow deposits;
 - (iii) tidal or fluvial flooding;
 - (iv) weather conditions causing unforeseen loss of power supply to the sewage treatment which could not be ameliorated by the reasonable provision and operation of standby generation facilities.
- (c) On any occasion where unusual weather conditions adversely affect the operation of the sewage treatment works, the Consent Holder shall use its best endeavours to mitigate that adverse effect.
- (d) For a sample of the discharge to be considered for the purposes of (a) above, the Consent Holder shall notify the Agency by telefax or telephone as soon as unusual weather conditions are known to have adversely affected operations and shall confirm the circumstances in writing as soon as possible thereafter (and in any event within 14 days of the occurrence of such conditions). That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.

RECORDING AND REPORTING

13. (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.
14. The Consent Holder shall notify the Agency in writing if any known introduction or material change, in respect of discharges from trade premises to the sewerage system, occurs that may increase or introduce into the effluent any "dangerous substance" included on Lists I, II or Red List (set out in Annex 2 to this notice as updated by the Agency from time to time, and notified to the Consent Holder in writing), or any other substance considered by the Consent Holder as having or likely to have a significant effect on the receiving waters.



CONSENT NO.	BG0033101
SCHEDULE NO.	BG0033101 01



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SUBSTANTIAL CHANGE

15. A discharge shall not be made from the works if it would cause a significant increase in the polluting effects of the discharge on controlled waters as a result of a new or altered discharge of trade effluent into the works.
- 15.1 A discharge of trade effluent into the works is new if -
- (a) it is made by the sewerage undertaker and is of a kind not made into the works by the undertaker immediately before the date of effect of this consent; or
 - (b) it is made by a third party and the discharge is authorised on or after that date.
- 15.2 A discharge of trade effluent into the works is altered if -
- (a) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of effect of this consent; or
 - (b) it is made by a third party and the alteration of the discharge is authorised on or after that date.
- 15.3 An increase in the polluting effects of the Discharge on controlled waters is not significant for the purposes of this condition if it relates to any characteristic of the Discharge which is specifically regulated by conditions 10(a) and 11 of this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.
- 15.4 For the purposes of this condition "trade effluent" means -
- (a) any discharge by the sewerage undertaker other than
 - (i) domestic sewage from premises connected directly or indirectly to the works; or
 - (ii) surface water run-off;
 - (b) any discharge by a third party which is authorised under Chapter III of Part IV of the Water Industry Act 1991 or which is only accepted as a result of a contract with the sewerage undertaker.



CONSENT NO.	BG0033101
SCHEDULE NO.	BG0033101 01



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UNAUTHORISED DISCHARGES

16. A discharge made from the works shall not contain any poisonous, noxious or polluting matter or solid waste matter which is attributable to any unauthorised discharge into the works.
- (a) A discharge into the works is unauthorised if it is made by a third party and either there is no obligation to receive it or conditions subject to which there is an obligation to receive it are not observed.
 - (b) Nothing in this, or any other, condition of this consent prevents anyone from relying on any defence available to them under section 87 of the Water Resources Act 1991.



CONSENT NO.	BG0033101
SCHEDULE NO.	BG0033101 01



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ANNEX 1

TABLE

<u>Column 1</u> Number of samples taken in any period of 12 months	<u>Column 2</u> Maximum number of samples permitted to exceed limit for given determinand
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



CONSENT NO.	BG0033101
SCHEDULE NO.	BG0033101 01



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AGENCY

ANNEX 2

SUBSTANCE

Mercury	Lead
Cadmium	Chromium
g-Hexachlorocyclohexane	Zinc
DDT	Copper
Pentachlorophenol	Nickel
Hexachlorobenzene	Arsenic
Hexachlorobutadiene	Iron
Aldrin	pH
Dieldrin	Boron
Endrin	Vanadium
Polychlorinated Biphenyls	Cyfluthrin
Dichlorvos	Sulcofuron
1,2 Dichloroethane	Flucofuron
Trichlorobenzene	Permethrin
Atrazine	Cyanide
Simazine	Azinphos-ethyl
Tributyltin compounds	Fenthion
Triphenyltin compounds	Parathion
Trifluralin	Parathion-methyl
Fenitrothion	Trichloroethane
Azinphos-methyl	Dioxins
Malathion	Isodrin
Endosulphan	
Carbon tetrachloride	
Chloroform	
Trichloroethylene	
Tetrachloroethylene	





CONSENT POINT

SAMPLE POINT

VEHICLE (V) & FOOT PASSENGER (SHIP)
Roostare (VIF)

MILFORD HAVEN WWTW - Final Effluent, THE DOCKS, MILFORD HAVEN



WATER RESOURCES ACT 1991 (schedule 10)

(as amended by the Environment Act 1995)

Application for ~~new consent~~/variation to an existing consent* to discharge (* delete as appropriate)

<p>Regional/Area Address:</p> <p>The Regional Finance Manager Environment Agency Welsh Region PO Box 425 St Mellons Business Park CARDIFF CF3 0LT</p>	<p><i>Official Use Only</i></p> <p>Dist/Area Ref: SW</p> <p>Application No.: B6-003312-1</p> <p>Date Received: 7/1/98</p> <p>Fee Received: £537.</p>
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Each applicant must complete the main form and may need to complete a separate annexe if appropriate. Please look through the form and read the notes carefully before you complete it. Processing of your application will be aided by full and accurate completion of all the relevant sections and provision of the necessary plans. If you have any queries regarding the form please contact the person given in the notes.

NOTE:
All information contained within this application will be made available on the public register unless there is a request to withhold any of it. Any such request should provide a full justification stating why the information needs to be withheld.

1 SITE AI

1.1 Address or place to which this application applies.

MILE THE MILT

For details of extension letters and relaxation of Condition letters please ask.

ER TREATMENT WORKS

Post Code:

2 DETAILS OF DISCHARGE(S)

2.1 State the nature of the discharge(s) (see note i and ii) - tick one or more boxes as appropriate:-

- Sewage Effluent - volume of 5 cubic metres per day or less
- Sewage Effluent - volume greater than 5 cubic metres per day (complete annexe 1)
- Sewage Effluent discharged under storm or emergency conditions (complete annexe 2)
- Cooling Water (complete annexe 3)
- Trade Effluent (including site drainage) (complete annexe 3)
- Others (please specify)

2.2 Please state the maximum quantity it is proposed to discharge in any one day 10950 m³/day
Briefly state how this figure was calculated (see note ii).

No change from previously consented volume
see consent BG 0033101

2.3 a) Indicate proposed means of discharge - tick as appropriate and show on plan:-
(for 1, 2 & 3 please state dimensions below)

- | | | |
|---|--------------------------------------|--|
| 1. Pipe <input checked="" type="checkbox"/> | 4. Borehole <input type="checkbox"/> | 7. Sub-Irrigation System <input type="checkbox"/> |
| 2. Channel <input type="checkbox"/> | 5. Well <input type="checkbox"/> | 8. Combination of 6. & 7. <input type="checkbox"/> |
| 3. Culvert <input type="checkbox"/> | 6. Soakaway <input type="checkbox"/> | 9. Other (please specify below) <input type="checkbox"/> |

555 mm.

b) National Grid Reference(s) of point(s) of discharge (see note iii).

S M / 8 9 7 6 / 0 4 9 8 (please indicate on accompanying plans)

2.4 a) The Agency will normally require adequate provision for the taking of samples of the discharge in a safe and convenient manner at any time. Please indicate the means proposed (see note iv) - tick as appropriate and show on plan:-

At the outlet At a manhole or sampling chamber

Other (please specify)

b) National Grid Reference(s) of sampling point(s). (If different from 2.3 b) above)

S M / 8 9 9 3 / 0 6 2 7 (please indicate on accompanying plans)

c) What flow measurement facilities will be provided (see note v)?
Please give details.

~~Measuring flume~~

i) Magflow meter on inlet to works
ii) Level transducer on final effluent
data recorded on SCADA data system.

2.5

a) Type of Treatment Plant(s) to be used (please specify make and model) - tick as appropriate:-

Septic Tank

Package Sewage Treatment Works

Other

BIOLOGICAL AERATED FILTER

b) Will the treatment process involve the use of any chemicals (eg ferric salts, polyelectrolytes) Y/N
If yes please give details.

2.6

a) On what date do you anticipate the discharge will commence? **EXISTING** / /
ON COMPLETION OF ADDITIONAL TANK. MARCH 98

b) If you require the consent for a limited time period please give dates; from: / /

to: / /

c) If the discharge is not continuous please detail the period/circumstances when it will occur.

2.7

a) Are there any existing consents for discharge from the premises (see note vi)? Y/N
If yes, please give the reference numbers (Any further information should be given in section 5.3).

BG 0033101 FINAL EFFLUENT
BG 0033102 STORM TANK
BG 0033103 INLET SPS OVERFLOW

b) Has any person had a Prohibition Notice served on them in respect of this site? Y/N
If yes, please give the reference number.

3 SITE DETAILS

3.1

Please give the name of the relevant Planning Authority.

PEMBROKESHIRE COUNTY COUNCIL

3.2

Please give details of the premises - tick as appropriate:-

1. Single Dwelling

6. Fish Farm

2. Multiple Dwellings

7. Mineral Workings

3. Industrial Premises

8. Water Services plc STW

4. Vehicle Parking Area

9. Water Supply

5. Commercial Premises (please specify)

10. Other (please specify)

3.3 Please indicate source of the water supply - tick as appropriate: - N/A

- | | | | |
|--|--------------------------|---|--------------------------|
| 1. Well | <input type="checkbox"/> | 5. River (please give name below) | <input type="checkbox"/> |
| 2. Borehole | <input type="checkbox"/> | 6. Estuary (please give name below) | <input type="checkbox"/> |
| 3. Precipitation (eg. rain or snow) | <input type="checkbox"/> | 7. Coastal Water (please give name below) | <input type="checkbox"/> |
| 4. Mains (please state water supply company) | <input type="checkbox"/> | | |

4 DETAILS OF RECEIVING ENVIRONMENT

4.1 Receiving Medium - tick the category(s) to which the proposed discharge(s) is(are) to be made:-

- | | | | |
|--|-------------------------------------|---------------------------------|--------------------------|
| 1. Estuarial Water (tidal river or stream) | <input checked="" type="checkbox"/> | 5. Into Land | <input type="checkbox"/> |
| 2. River or Stream (non-tidal) | <input type="checkbox"/> | 6. Onto Land | <input type="checkbox"/> |
| 3. Canal | <input type="checkbox"/> | 7. Directly into Groundwater | <input type="checkbox"/> |
| 4. Lake, Loch or Pond | <input type="checkbox"/> | 8. Coastal Water (see note vii) | <input type="checkbox"/> |

State name of receiving water if known:

4.2 In the case of sub-irrigation systems, soakaways or boreholes:-

- (a) Is any part of the system within 5 metres of the boundary of the premises?
- (b) Is any part of the system within 10 metres of a watercourse?
- (c) Is any part of the system within 50 metres of a borehole or spring?
- (d) For wells and boreholes state dimension(s) in metres.
- (e) For sub-irrigation systems, soakaway pits, wells and boreholes, state maximum depth in metres.
- (f) For boreholes, state details of lining in metres:
- (i) Depth of lining
- (ii) Depth of perforated lining
- (iii) Depth of unperforated lining
- (g) A percolation test must be carried out in accordance with British Standard BS6297:1983.
Have the results been provided?

4.3 Is there a foul sewer available to which the discharge(s) could be made (see note viii)?
If yes, please give the reasons it is not practical to connect to it (eg. distance, flow etc.).

5 DETAILS OF APPLICANT AND OTHER INFORMATION

5.1 (See general notes and note ix)

(a) Full name and postal address of applicant. This should be the person who will become the consent holder should consent be issued.

* DWR CYMRU/WELSH WATER
* PLAS Y FFYNNON
* CAMBRIAN WAY
* BRECON
* POWYS
*

Post Code: LD3 7HP

Daytime Telephone Number: 01874 623181

Company Registration Number (if appropriate):

(b) Agent (if any) - Full name and postal address.

*
*
*
*
*
*
*

Post Code:

Contact Name and Daytime Telephone Number:

5.2

Please give full name and address to which bills should be sent if different to that given above:

*
*
*
*
*
*

Post Code:

Daytime Telephone Number:

5.3 Are there any other factors to be taken into account? Please continue on a separate sheet if necessary.

DECLARATION

- We:
1. apply under the Water Resources Act 1991 (as amended by the Environment Act 1995) for consent to discharge, as described in this Application. "This Application" means this page, all the other pages of this form and any attached annexes, the attached plan(s), any other sheets attached, and any other written information supplied to support the application.
 2. enclose the required application fee, payable to the Environment Agency (see note x).
 3. enclose 3 copies of the plan(s) and location maps with all relevant information clearly marked (see note xi).
 4. will pay required advertising costs (see note xii).
 5. confirm that we* will notify the Environment Agency of any changes in the information in this application which might be material to the continuation of the consent.
 6. confirm that the information given in this application and any questions which the Environment Agency may have about it is/will* be true to the best of my/our* knowledge, information and belief and ~~am~~/are* not aware of any other facts or information which might affect the granting of a consent, or conditions which might be put on it (see note xiii).
 7. confirm that we* will pay any annual charges due should a consent be granted YES/NO*. If no please indicate who will by completing section 5.2 above (see note xiv).

(* Delete as appropriate)

SIGNED: A. R. Andrews PRINT NAME: ANDREWS
ON BEHALF OF: Dwr Cymru Cym DATED: 5-1-98

o o o

CONFIDENTIALITY

I/we apply for commercial confidentiality and enclose a full written justification (see note xv).

SIGNED: DATED:

PLEASE RETURN THIS FORM TO THE ADDRESS GIVEN ON THE FRONT PAGE

REVIEW.



ENVIRONMENT AGENCY

ANNEXE 1

SEWAGE EFFLUENT GREATER THAN 5 CUBIC METRES PER DAY

Please complete this annexe if you are proposing to discharge more than 5 cubic metres per day of sewage effluent (if the effluent is to contain a trade component Annexe 3 should also be completed).

Official Use Only
Application No.

1. Site Name.

MILFORD HAVEN WASTEWATER TREATMENT WORKS
CONSENT NO. BG0033101

2. Please detail the type and number of treatment units you are proposing to use.

4 Lamella separators and 5 BAF units
(see letter to S J Brown dated 18.11.97 attached)

3. Volume, rates and overflow settings. (Please give volumes in cubic metres per day or litres per second as indicated below)

- a) Maximum flow to full treatment. 10950 m³/d
(see note (ii) in main guidance notes for population equivalents)
- b) Dry weather flow of discharge(s). 3850 m³/d
- c) Average daily flow. m³/d
- d) Maximum rate of discharge(s) 191 l/s

4. Will there be provisions for storm/emergency discharges? **EXISTING, CONSENTED.** Y/N
If yes, please complete Annexe 2.

5. a) Will any self monitoring take place? Y/N
If yes, please give details.

b) Will automatic sampling equipment be provided? Y/N
If yes, please give details of type and location (please indicate on plan).

6. a) Please state the maximum population served by the treatment works.

EXISTING	14 000
FUTURE	19 000

b) Please give reasons for any variations in population eg. holiday resort, training area, seasonal industry etc. and detail the periods/times involved.

n/a

c) Please state type of catchment/site being served eg. residential, resort, industrial etc.

RESIDENTIAL & INDUSTRIAL

7. Will a maintenance agreement be set up to manage the sewage works? (see note b) Y N
If yes, please give details.

8. Does the effluent contain a trade component? Y N
If yes, please complete appropriate section on Annexe 3 for authorised discharges of trade effluent to the sewerage system.

Notes (see also the notes attached to the main form):

- a) For significant sewage treatment plants full details of the plant design, dry weather flow and Biochemical Oxygen Demand load, along with information on all discharges from the works must be included in order for the application to be processed. Flow monitoring will normally be required for such discharges and details of siting and type of flow recorders should be provided.
- b) The Agency require a single body or company to be responsible for the discharge and any bills raised under the Charges for Discharges Scheme. Where multiple dwellings under different ownership are connected to the same system a management company should be set up.



ANNEXE 4

WELSH REGION SUPPLEMENTARY INFORMATION ANNEXE

Please complete this annexe for every proposed discharge.

Official Use Only
Application No.

For all proposed discharges:

1. Site Name.

MILFORD HAVEN STW

2. Is this application being made to reinstate a lapsed Consent?

N

If so, please state the Number of the lapsed Consent:

IMPORTANT: If you are in need of advice on either part of question 2, please contact the Agency Regional Consents Section on 01222 770088.

3. If the proposed discharge is to be made down a pipe, channel or culvert (as given in Section 2.3 in the main application form), please state the diameter (including units):

555 mm

4. Please indicate the anticipated cost of the proposed scheme, including any alternatives which may have been considered:

n/a

5. Is there any trade effluent component in the proposed discharge?

N

If yes, please confirm here that you have completed and enclosed Annexe 3:

Tick
 n/a





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6. Will the proposed discharge be pumped or made under gravity? (please circle):

Pumped	Gravity
--------	---------

If pumped, please state the maximum pump rate in l/sec:

	l/s
--	-----

For proposed discharges of sewage in storm or emergency conditions:

7. Please confirm here that you have completed and enclosed both Annexes 1 and 2:

Tick N/A

8. Please state:

Population served (head)	_____
Consumption (l/head/day) default = 180	_____
Infiltration (m ³ /day)	_____
Industrial effluent flow (m ³ /day)	_____
Dry Weather Flow (m ³ /day)	_____
SOCA (l/sec)	_____
Predicted spill frequency (per annum)	_____

IMPORTANT NOTES FOR ALL CONSENT APPLICATIONS:

1. Whoever signs the declaration on the main application form takes responsibility for the discharge, and will become the registered consent holder, if consent is given. In the case of a 'body corporate' (e.g. a public limited company ('plc'), limited company, local authority), the 'body corporate' will be the registered consent holder, and the person with the delegated authority to sign on behalf of the 'body corporate' should give their job title.
2. Agents making an application on behalf of a client, must attach their clients written authority.
3. If the name and/or address of the applicant changes after submission of this application to the Environment Agency, the applicant must inform the Agency in writing.



Eich cyf/Your ref.

Ein cyf/Our ref. BG003310/SE/EAP

Dyddiad/Date: As Postmark



ASiantaeth Yr
Amgylchedd
Environment
Agency

Environment Quality Scientist
Dwr Cymru Cyfyngedig
Plas y Ffynnon
Cambrian Way
Brecon
LD3 7HP

Dear Sir/Madam

RE: WATER RESOURCES ACT 1991 SECTION 88 SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995) APPLICATION FOR VARIATION OF CONSENT TO DISCHARGE SECONDARY TREATED SEWAGE EFFLUENT

Further to your application for variation of consent of the Agency to discharge under the provisions of Section 88 of the Water Resources Act 1991, I enclose the Agency's formal notice of the variations made to the conditions of the consent to discharge Secondary treated sewage effluent from Milford Haven Waste Water Treatment Works at the Dock Milford Haven to Estuarial Waters in Milford Haven Waterway.

Under the present Scheme of Charges for Discharges to Controlled Waters an annual charge will be made for all consents to discharge, except where the discharge is of sewage effluent of five cubic metres or less per day. This charge is based on information derived from the conditions attached to the consent to discharge, as outlined in the enclosed leaflet. A change in conditions may therefore result in a change in annual charge, you may therefore receive a revised bill in due course.

If you are not satisfied with the new conditions of the consent you may appeal against the decision to the Secretary of State for Wales at the Welsh Office, Cathays Park, Cardiff CF1 3NQ.

Please take careful note that if the holder of the consent changes, you must inform the Agency **IN WRITING** as soon as possible of the name of the new holder. This to ensure that the rights and charges associated with the Consent are transferred to the new holder.

Cont/d...

Asiantaeth yr Amgylchedd
Llys Afon, Hawthorn Rise, Hwlfordd, Sir Benfro, SA61 2BQ
Ffon 01437 760081, Ffacs 01437 760881

Environment Agency
Llys Afon, Hawthorn Rise, Haverfordwest, Pembrokeshire, SA61 2BQ
Tel 01437 760081, Fax 01437 760881



A certificate of Holder notice will be sent to you shortly which is designed for this purpose, and should be kept safely with the Consent until required.

Yours faithfully

PP *Stede*

PETER WILKINSON
Area Environment Planning Manager

Enc.

Please ask for: G Davies Ext No: 3036

Our Ref: 2/EQ/BG0033101/DMW/KSP
Your Ref:

Date: July 8, 1994



Dwr Cymru Cyfyngedig
Plas Y Ffynnon
Cambrian Way
Brecon
Powys
LD3 7HP

Dear Sir/Madam,

RE: WATER RESOURCES ACT 1991 SECTION 88 SCHEDULE 10
REVIEW OF CONSENT TO DISCHARGE

Further to your application for the review of consent of the Authority to discharge under the provisions of Section 88 of the Water Resources Act 1991, I enclose the Authority's formal notice of the modifications made to the conditions of the consent to discharge biologically treated sewage effluent from Milford Haven Sewage Treatment Works.

Under the present Scheme of Charges for Discharges to Controlled Waters an annual charge will be made for all consents to discharge, except where the discharge is of sewage effluent of five cubic metres or less per day. This charge is based on information derived from the conditions attached to the consent to discharge, as outlined in the enclosed leaflet. A change in conditions may therefore result in a change in annual charge, you may therefore receive a revised bill in due course.

Where there is a change of ownership of the discharge, the Authority should be informed in writing in order that an apportioned charge may be raised.

In addition to the requirement in condition 8 of the consent, records of the hourly instantaneous rates of discharge of the effluent shall be kept for at least two years. These records shall be made available to the Authority upon request.

In the event that delays in the construction of the works results in the date specified in condition 14 being inappropriate this date may be revised and a reviewed consent issued accordingly.

Cont'd ...

Customer
Reference DR 0586 9228 2GB

Dr JOHN STONER Rheolwr Cyffredinol Rhanbarthol / Regional General Manager
Awdurdod Afonydd Cenedlaethol, Rhanbarth Cymru / National Rivers Authority, Welsh Region
Llys Afon, Hawthorn Rise, Hwlfordd, Dyfed, SA61 2BQ. Ffôn: (0437) 760081, Ffacs: (0437) 760881
Llys Afon, Hawthorn Rise, Haverfordwest, Dyfed, SA61 2BQ. Tel: (0437) 760081, Fax: (0437) 760881

If you are not satisfied with the new conditions of the consent you may appeal against the decision to the Secretary of State for Wales at the Welsh Office, Cathays Park, Cardiff CF1 3NQ.

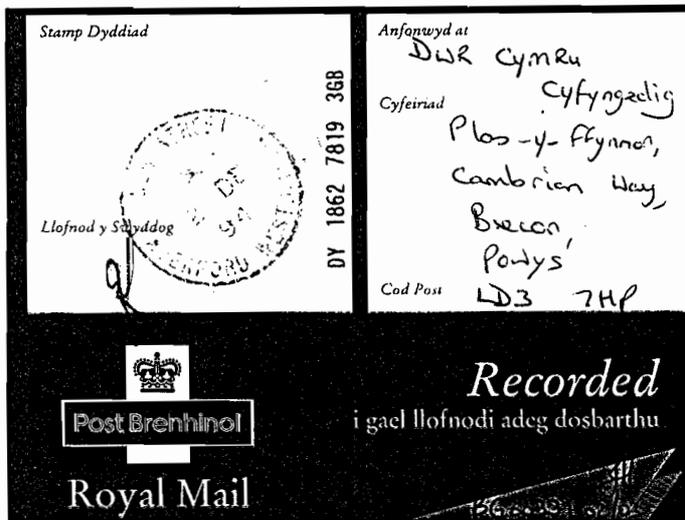
Yours faithfully,

H. J. Hughes

PP S J BROWN
Area Environmental Quality Manager

Enc

Please ask for: Mrs Joy Hughes



WATER RESOURCES ACT 1991

Under Section 88 and Schedule 10 of the Water Resources Act 1991 and all other enabling powers the National Rivers Authority hereby serves this Notice

R E V I E W O F C O N S E N T

Page 1 of 6

To : Dŵr Cymru Cyfyngedig,

Of : Plas y Ffynnon, Cambrian Way, Brecon, Powys LD3 7HP.

In respect of the previous Consent No. BG0033101 issued on : 30th June 1983

For : a discharge of sewage effluent

To : Estuarial Waters in Milford Haven Waterway

From: Milford Haven Sewage Treatment Works

This Consent shall not be taken as providing a statutory defence against a charge of pollution in respect of any poisonous, noxious or polluting constituents not specified herein.

CONDITIONS OF CONSENT

1. The discharge shall consist only of biologically treated sewage effluent.
2. The discharge shall be made in the manner and at the place specified as follows:-

Discharging via : 555mm diameter pipe

Discharging to : Milford Haven Waterway

At OS Grid Ref. : SM 8976 0498

As shown marked : Consent Point 'A' on the attached plan no BG0033101

3. The maximum volume of effluent discharged shall not exceed 10950 cubic metres per day.

continued.....

WATER RESOURCES ACT 1991
Continuation Sheet

page 2 of 6

4. The volume of effluent discharged under dry weather flow conditions shall not exceed 3850 cubic metres per day.
5. The maximum rate of flow of effluent discharged shall not exceed 127 litres per second.
6. Adequate facilities, approved in writing by the Authority, shall be provided to enable representative samples of the discharge to be safely and conveniently obtained at any time at a sampling chamber to be agreed in writing with the National Rivers Authority.
7. Apparatus, approved in writing by the Authority, shall be provided and maintained in full working order, to continuously measure and record the rate and volume of effluent discharged. The accuracy of this apparatus shall not be less than $\pm 10\%$ over the range of flows discharged. The apparatus shall be accessible to the Authority at all times.
8. Records shall be kept for at least two years of the total daily volumes and rates of discharge of the effluent. The records shall be made available to the Authority upon request.
9. Returns, in a form approved in writing by the Authority, shall be made at annual intervals. The returns shall specify the maximum daily volume and the maximum rate of effluent discharged during the previous specified period.
10. The quality of the effluent discharged at all flow rates up to the maximum specified in condition 5 shall neither be inferior to the following lower tier numerical limits, except as provided for in Annex 1, nor to the upper tier limits.
- 10a. The lower tier 5 day biochemical oxygen demand (BOD ATU), determined at 20 degrees Celsius after the suppression of nitrification using allyl thiourea, shall not exceed 50 milligrammes of oxygen per litre of sample. The upper tier (BOD ATU) shall not exceed 100 milligrammes of oxygen per litre of sample.

continued.....

WATER RESOURCES ACT 1991
Continuation Sheet

Consent No.	BG0033101
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page 3 of 6

- 10b. The lower tier Suspended Solids concentration (dried at 105 degrees Celsius) shall not exceed 60 milligrammes per litre. The upper tier suspended solids concentration shall not exceed 150 milligrammes per litre.
11. The Authority shall be informed in writing as soon as reasonably practicable of any information received by Dwr Cymru to the effect that there has been or is likely to be discharged into the sewerage system connected to the works, a significant increase in the quantity of any of the substances listed in the attached annex 2.
12. For the purpose of this consent dry weather flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25mm on one day.
13. The effluent shall at no time contain any matter other than matters specifically authorised or limited by numerical conditions in this consent, to such an extent as to cause the receiving waters to be poisonous or injurious to fish or the spawning ground, spawn or food of fish.
14. The terms and conditions of this consent shall come into force on 1st January 1996 or on the date of the new works commissioning whichever is the sooner. The discharger shall give the Authority at least one month's written notice before making a discharge.
- 15 a) No samples of treated sewage effluent taken at a time when the sewage treatment works is not under normal operating conditions shall be taken into account in deciding whether or not the upper tier conditions contained in paragraphs 10a and 10b of this consent have been complied with.
- b) For the purpose of this condition "not under normal operating conditions" shall include the following:
- (i) when sections 87(2) or 89(1) of the Water Resources Act 1991 apply:

continued.....

WATER RESOURCES ACT 1991
Continuation Sheet

page 4 of 6

(ii) "unusual weather conditions" which shall include the following:

- (I) low ambient temperatures as evidenced by effluent temperatures of 5 degrees Celsius or less, or by the freezing of mechanical equipment in the works;
- (II) significant snow deposits;
- (III) tidal or fluvial flooding;
- (IV) weather conditions causing unforeseen loss of power supply to the sewage treatment which could not be ameliorated by the reasonable provision and operation of standby generation facilities.

(iii) when the Authority has issued a variation of consent under Chapter II of the Water Resources Act 1991 for reasons such as capital works construction or periods of industrial action.

(c) On each occasion that the sewage treatment works is not under normal operating conditions for the reasons in (b) (i) and (ii), the discharger shall use its best endeavours to mitigate that adverse effect and shall notify the Authority as soon as practicable and confirm in writing within 14 days of the occurrence of such conditions. That notification shall include a full description of the abnormal operating conditions and their impact on the operation of the works and shall be entered on the public register

This Notice is given on: 29th June 1994 on behalf of the Authority
by: [Signature] Area Environmental Quality Manager

During the period ending with the 28th June 1996 the terms of this
Notice will not be altered without the written agreement of the person
making the discharge.

ANNEX 1

page 5 of 6

Where the number of samples taken in any period of twelve consecutive months falls within any of the ranges within Column 1 of the table below, the number of samples which are inferior to the numerical quality limit in force at the time for any determinand 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. This annex shall not apply to the upper tier limits.

TABLE

<u>Column 1</u>	<u>Column 2</u>
Number of samples taken in any period of 12 months	Maximum number of samples permitted to exceed limit for given determinand
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

continued.....

ANNEX 2SUBSTANCE

page 6 of 6

Mercury	Vanadium
Cadmium	PCSDs
g-Hexachlorocyclohexane	Cyfluthrin
DDT	Sulcofuron
Pentachlorophenol	Flucofuron
Hexachlorobenzene	Permethrin
Hexachlorobutadiene	Cyanide
Aldrin	Azinphos-ethyl
Dieldrin	Fenthion
Endrin	Parathion
Polychlorinated Biphenyls	Parathion-methyl
Dichlorvos	Trichloroethane
1,2 Dichloroethane	Dioxins
Trichlorobenzene	Isodrin
Atrazine	
Simazine	
Tributyltin compounds	
Triphenyltin compounds	
Trifluralin	
Fenitrothion	
Azinphos-methyl	
Malathion	
Endosulphan	
Carbon tetrachloride	
Chloroform	
Trichloroethylene	
Tetrachloroethylene	
Lead	
Chromium	
Zinc	
Copper	
Nickel	
Arsenic	
Iron	
pH	
Boron	



Title MILFORD HAVEN SEWAGE TREATMENT



WALLACE EVANS

Scale 1:25,000 Date 6-7-93

Drawn TKH Checked *[Signature]*

Drq No. FL320w1 - BG0033101

WATER ACT 1973
RIVERS (PREVENTION OF POLLUTION) ACTS 1951 - 1961
WATER AUTHORITIES (CONTROL OF OUTLETS AND DISCHARGES) REGULATIONS 1975

NOTIFICATION OF CONSENT
for a discharge and/or outlet

To: WELSH WATER AUTHORITY

This Notification is issued under the above-mentioned Acts and Regulations and all other enabling powers as a CONSENT DEEMED TO HAVE BEEN GRANTED BY THE SECRETARY OF STATE FOR WALES and is in respect of : an Outlet and a Discharge of Sewage Effluent from the Authority's : MILFORD HAVEN OUTFALL

The Authority submitted this Notification of Consent on : 30th March 1983 to the Secretary of State for Wales, in the form of a draft, and he has NOT, within three months, required the Authority to apply to him for a consent. This Consent has therefore taken effect as a consent which is deemed to have been granted by the Secretary of State for Wales, subject only to the following conditions, on : 30th June 1983

CONDITIONS

As to the OUTLET :

1. The form and location of the outlet shall be in accordance with the following, namely, an outlet in the form of : the existing outlet and discharging into the : Milford Haven Estuary at National Grid Reference: SM 8985 0498 and which is shown marked : Discharge Point on the attached Plan No. : RW/0770/T/U1

2. The outlet shall be used only for making the discharge specified in Condition 3 below.

As to the DISCHARGE :

3. The discharge shall consist only of comminuted sewage.
4. The quantity of effluent shall not exceed the following maximum values:

	<u>Value</u>	<u>Unit</u>
Rate of discharge	129.2	litres per second
Volume during any period of 24 consecutive hours	11160	cubic metres
Volume discharged under 'dry weather conditions' during any period of 24 consecutive hours.	1860	cubic metres
5. Adequate facilities shall be provided for the taking of samples of the effluent: below the comminutor at the outfall works.

The terms of this Consent will not, without the consent in writing of the person to whom this Consent is given, (or his successor), be altered before the expiration of the period ending with the Thirtieth day of June 1985 .

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



Name of Works: FIRST STAGE REVIE
 WEST WALES
 Type of Effluent: Milfo
 Commi:

WELSH WATER AUTHORITY
PLAN NO. RW/0770/T/U
MILFORD HAVEN
OUTFALL
 This is the Plan referred to
 in the ~~Consent~~ Consent
 Number RW/0770/T/U

DISCHARGE
POINT

REGISTER OF CONDITIONS
 IMPOSED UNDER SECTION 7 OF THE RIVERS (PREVENTION OF POLLUTION) ACT, 1951.

File Reference 95-2086

BG0080101

02

Cat. No. R.B.12 SHAW & SONS LTD., FETTER LANE, E.C.4. V7/1

NAME AND ADDRESS OF APPLICANT <i>Miford Haven Urban District Council</i>		DATE OF APPLICATION <i>10th May 1963.</i>
DATE ON WHICH CONDITIONS CAME INTO FORCE <i>26th July 1963.</i>	FULL ADDRESS OR OTHER SUFFICIENT DESCRIPTION OF LAND OR PREMISES TO WHICH THE CONDITIONS RELATE <i>Increased discharge to Gosspiteil.</i>	
USE OF NEW OR ALTERED OUTLET		NEW DISCHARGE
CONDITIONS IMPOSED WITH RESPECT TO:- (i) PRECISE LOCATION OF OUTLET <i>Outlet to be located on left bank of Gosspiteil at top of tidal limit map reference O-28. Permits 1" Grid reference 903042</i> (ii) CONSTRUCTION OF OUTLET (OTHER THAN CONDITIONS TO BE SATISFIED BEFORE OUTLET IS BROUGHT INTO USE) <i>Samples to be taken at grid reference 903042.</i> (iii) USE OF OUTLET (iv) USE OF ANY OTHER OUTLET FOR TRADE OR SEWAGE EFFLUENT FROM THE SAME LAND OR PREMISES		CONDITIONS IMPOSED WITH RESPECT TO:- (i) NATURE AND COMPOSITION OF DISCHARGE <i>Discharge to be restricted to sewage effluent produced in Gosspiteil area. Sewage effluent to include the discharge of up to 2,000 gallons per day of farm wastes. (letter 001/10/63) The sewage to be pumped from Gosspiteil to the main 48" outfall sewer at Harkin bridge. near grid (26-10, 64)</i> (ii) TEMPERATURE OF DISCHARGE <i>Atmospheric temperature.</i> (iii) VOLUME OR RATE OF DISCHARGE OF EFFLUENT FROM LAND OR PREMISES <i>not to exceed 21,200 g.p.d. d.w.f.</i>
		REMARKS:- (1) Period of consent as specified under Section 5(2) of the Rivers (Prevention of Pollution) Act, 1961. (that is period before review.) <i>Three Eighteen months</i> (2) Date of operation of conditions and length. <i>26th January 1965.</i>