

FILE COPY

CONSENT NO.

BP0293301



ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

CONSENT TO DISCHARGE

TO: Head of Housing Management & Landlord Services
Carmarthenshire County Council
5 Spillman Street
Carmarthen
SA31 1LE

The **ENVIRONMENT AGENCY** ("The Agency") in pursuance of its powers under the Water Resources Act 1991 **HEREBY CONSENTS** to the making of a discharge **OF SEWAGE EFFLUENT**, as follows:

BIOLOGICALLY TREATED SEWAGE EFFLUENT

FROM: LLANARTHNE SEWAGE TREATMENT PLANT

AT: LAND ADJACENT TO HAFAN-DEG, LLANERTHNE

TO: AFON GWYNON

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

BIOLOGICALLY TREATED SEWAGE EFFLUENT Schedule No. BP0293301

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, altering this consent, without the agreement in writing of the consent holder, during a period of 4 years from the date this consent takes effect.

This consent is issued and takes effect on the 29th day of October 2001

Signed 

Team Leader Water Quality Consents

Asiantaeth yr Amgylchedd
Glantawe, 154 Ffordd Sant Helen, Abertawe SA1 4DF. Ffon 01792 645300, Ffacs 01792 648652

Environment Agency
Glantawe, 154 St. Helens Road, Swansea SA1 4DF. Tel 01792 645300, Fax 01792 648652



CONSENT NO.	BP0293301
SCHEDULE NO.	BP0293301 01
DATE ISSUED	29 th October 2001.



ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales

CONDITIONS OF CONSENT TO DISCHARGE

BIOLOGICALLY TREATED SEWAGE EFFLUENT ("the Discharge")

FROM: LLANARTHNE SEWAGE TREATMENT PLANT, LAND ADJACENT TO HAFAN-DEG, LLANRTHNE

1. (a) The Discharge shall not contain any poisonous, noxious or polluting matter or solid waste matter.
- (b) Provided that the Discharge hereby consented is made in accordance with the following conditions of this consent, such discharge shall not be taken to be in breach of condition (a) above by reason of containing substances or having properties identified in and controlled by these conditions.

NATURE

2. The Discharge shall consist solely of sewage effluent, arising from 24 dwellings.

LOCATION

3. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 150 millimetre diameter pipe;
 - (b) discharging to Afon Gwynon;
 - (c) at National Grid Reference SN 53430 20190;
 - (d) shown marked 'Consent Point' on Plan BP0293301 attached as Annex 1.

SAMPLING POINTS

4. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SN53440 20180, as shown marked 'Sample Point' on Plan BP0293301, 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.



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**ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales**

VOLUME

5. The volume of the Discharge shall not exceed 11.7 cubic metres per day.

FLOW MEASUREMENT

6. Flow measurement structure(s) shall be provided and maintained to enable the daily volume and instantaneous flow rate of the Discharge to be measured or determined as required.

COMPOSITION

7. The Discharge shall not contain more than:
- (i) 20 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20oC with nitrification suppressed by the addition of allyl-thiourea);
 - (ii) 30 milligrammes per litre of suspended solids (measured after drying at 105oC).
8. As far as is reasonably practicable, the works shall be operated so as to prevent:
- (a) any matter being present in the Discharge, other than matter specifically covered by numerical conditions in this consent, to such an extent as to cause the receiving waters, or any waters of which the receiving waters are a tributary, to be poisonous or injurious to fish in those waters, or to the spawning grounds, spawn or food of fish in those waters, or otherwise cause damage to the ecology of those waters; and
 - (b) the Discharge from having any other adverse environmental impact.

(



Llanarthne Sewage Treatment Plant, Llanarthne

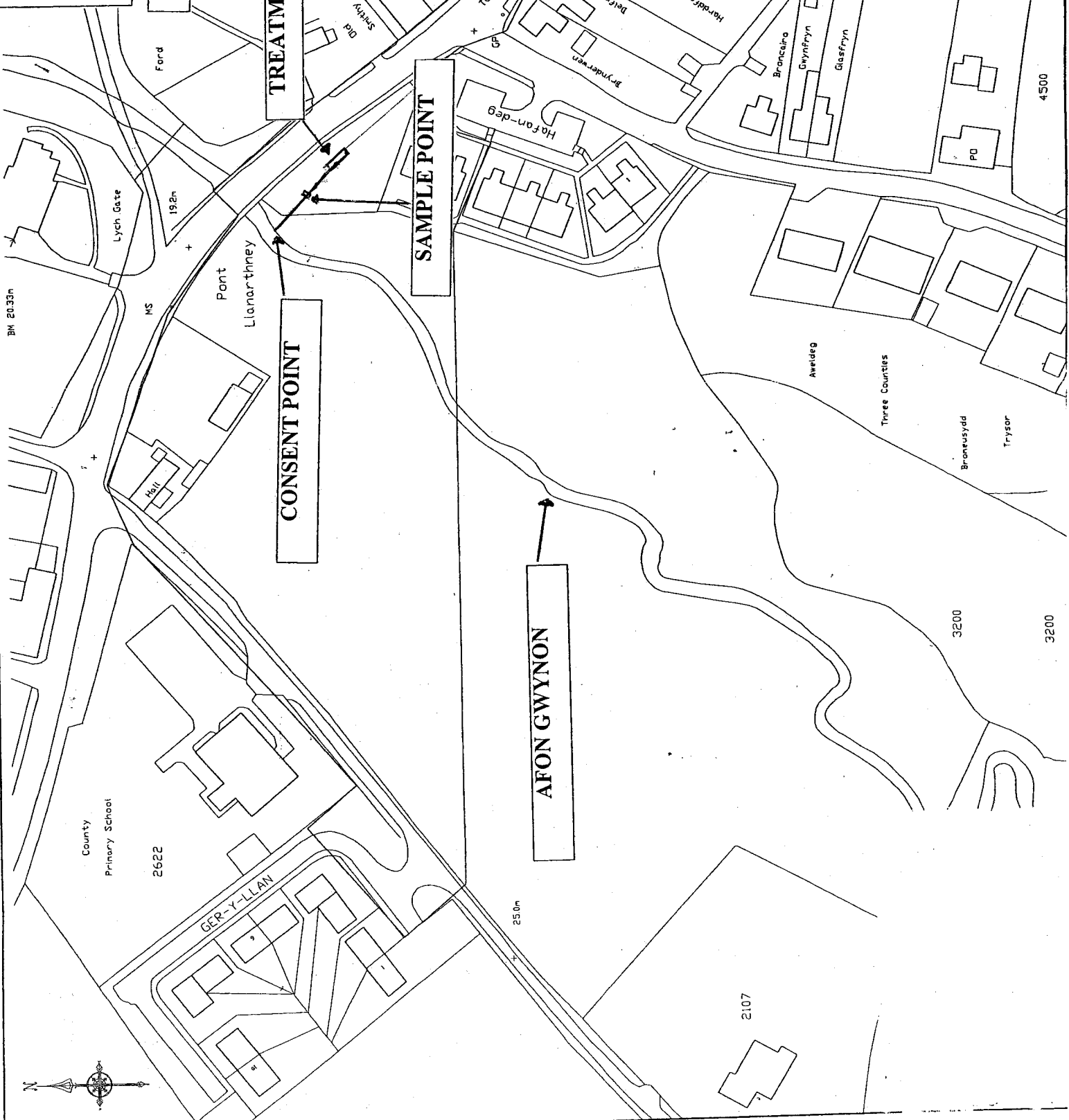
ANNEX 1: BP0293301

TREATMENT PLANT

SAMPLE POINT

CONSENT POINT

AFON GWYNON





ASiantaeth yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Eich cyf/Your ref.

Ein cyf/Our ref. 2/CS/0293301/RT

Dyddiad/Date: 31st October 2001

Mr Ken Phillips,
Operations Department,
Carmarthenshire County Council,
Parc Myrddin,
Waun Dew,
Carmarthen,
Carmarthenshire.
SA31 1DS.

Dear Sir,

WATER RESOURCES ACT 1991, SCHEDULE 10 (As amended by the Environment Act 1995) APPLICATION FOR CONSENT TO DISCHARGE SEWAGE EFFLUENT BY GERRY DAVIES FROM NEW PACKAGE SEWAGE TREATMENT PLANT ON LAND ADJACENT TO HAFAN-DEG, LLANARTHNE, CARMARTHENSHIRE. APPLICATION NO. BP0293301

Further to your application the Agency has decided that consent should be given subject to conditions. I enclose the Agency's formal consent to discharge biologically treated sewage effluent from Llanarthne Sewage Treatment Plant.

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. The charge is based on information derived from the conditions attached to the consent to discharge, as outlined in the enclosed leaflet.

If you consider that the conditions imposed by the consent are unreasonable you have a right of appeal to the National Assembly for Wales at Cathays Park, Cardiff CF10 3NQ.

Notice of an appeal must be given in writing within three months of this notification and must be accompanied by a statement of the grounds of appeal.

If granted, a consent under Schedule 10 of the Act, covers water quality considerations only. It does not alter the need to obtain any other consents or approvals which might be required in connection with your proposal under other legislation. For example it does not give any right or permission to discharge where land is not owned by the applicant.

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

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



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 is to ensure that the rights and charges associated with the Consent are transferred to the new holder. 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.

If you have any queries regarding the enforcement of this consent, please do not hesitate to contact Pete Jordan, Team Leader Environment Protection, Environment Agency, Plas Gwendreath, Heol Y Parc Mawr, Crosshands Business Park, Carmarthenshire, SA14 6RE.

Yours sincerely,



NAIL REYNOLDS

Area Environmental Planning Manager

Enc.

Asiantaeth yr Amgylchedd Cymru

Llys Afon, Hawthorn Rise, Hwlfordd, Sir Benfro. SA61 2BQ
Ffôn: 01437 760081, Ffacs: 01437 760881

Environment Agency Wales

Llys Afon, Hawthorn Rise, Haverfordwest, Pembrokeshire. SA61 2BQ
Tel: 01437 760081, Fax: 01437 760881



ENVIRONMENT
AGENCY

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)

Regional/Area Address:	<i>Official Use Only</i>
	<i>Dist/Area Ref:</i>
	<i>Application No.</i> 610293301
	<i>Date Received:</i> 15/6/01
	<i>Fee Received:</i> £661.00

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 ADDRESS

1.1 Address or other sufficient description of land or premises to which this application applies.

NEW PACKAGE SEWAGE TREATMENT PLANT ON LAND
ADJACENT TO HAFAN-DEG, LLANARTHNE, CARMARTHENSHIRE.

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 **13.3** m³/day
Briefly state how this figure was calculated (see note ii).

7 x 2 BED PROPERTIES = 14 PERSONS + 3.5 = 17.5
48 + 8 = 56
TOTAL (Say) 74 x 180 l/day = 13.3 m³/day

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 ☒

4. Borehole ☐

7. Sub-Irrigation System ☐

2. Channel ☐

5. Well ☐

8. Combination of 6. & 7. ☐

3. Culvert ☐

6. Soakaway ☐

9. Other (please specify below) ☐

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

S N / 5 3 4 3 / 2 0 1 9 (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 N / 5 3 4 4 / 2 0 1 8 (please indicate on accompanying plans)

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

NONE

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 ☐

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?

01/08/01

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).

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.

CARMARTHENSHIRE 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:-

- | | | | |
|--|-------------------------------------|---|--------------------------|
| 1. Well | ☐ | 5. River (please give name below) | ☐ |
| 2. Borehole | ☐ | 6. Estuary (please give name below) | ☐ |
| 3. Precipitation (eg. rain or snow) | ☐ | 7. Coastal Water (please give name below) | ☐ |
| 4. Mains (please state water supply company) | ☒ | | |

DŴR CYMRU (WELSH WATER)

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) | ☐ | 5. Into Land | ☐ |
| 2. River or Stream (non-tidal) | ☒ | 6. Onto Land | ☐ |
| 3. Canal | ☐ | 7. Directly into Groundwater | ☐ |
| 4. Lake, Loch or Pond | ☐ | 8. Coastal Water (see note vii) | ☐ |

State name of receiving water if known:

AFON GWYNON

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

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

4.3 Is there a foul sewer available to which the discharge(s) could be made (see note viii)? ☒ Y/N
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.

* GERRY DAVIES - HEAD OF HOUSING,
* SOCIAL CARE & HOUSING,
* 5 SPILLMAN STREET.
* CARMARTHEN.

Post Code: SA31 1LE

Daytime Telephone Number: JOHN BUTLER-JENKINS / GERRY DAVIES
01267 / 228935

Company Registration Number (if appropriate):

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

* DIRECTOR OF OPERATIONS
* PARC MYRDDIN
* RICHMOND TERRACE
* CARMARTHEN

Post Code: SA31 1DS

Contact Name and Daytime Telephone Number: TONY DERRICK / KEN PHILLIPS 01267 228167

5.2

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

* (a) Above

* PLEASE SEND COPY OF CONSENT TO KEN PHILLIPS
* AT (b) 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

I/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 I/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 I/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: K. Phillips PRINT NAME: K. PHILLIPS
ON BEHALF OF: CARMARTHENSHIRE COUNTY COUNCIL DATED: 12/06/01

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



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 Annex 3 should also be completed).

Official Use Only
Application No.

1. Site Name.

S.T.P. ADJACENT TO HAFAN DEG. LLANARTHNE,
CARMARTHENSHIRE

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

1 NO "ENTEC '75P" BIOTEC (BELOW GROUND)
SEWAGE TREATMENT PLANT.

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.
(see note (ii) in main guidance notes for population equivalents)
- b) Dry weather flow of discharge(s).
- c) Average daily flow.
- d) Maximum rate of discharge(s)

13.3 m³/d

13.3 m³/d

13.3 m³/d

0.6 l/s

4. Will there be provisions for storm/emergency discharges?
If yes, please complete Annex 2.

☒ N

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

☒ N

b) Will automatic sampling equipment be provided?

☒ 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.

74

- 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

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

Y/N

CARMARTHENSHIRE COUNTY COUNCIL - HYDROLOGY SECTION.
UNDER NORMAL USAGE THE PLANT WILL REQUIRE PERIODIC
EMPTYING TO PREVENT EXCESSIVE BUILD UP OF SURPLUS SLUDGE

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

Y/N

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.



ENVIRONMENT AGENCY

ANNEXE 2

SEWAGE EFFLUENT DISCHARGED IN STORM OR EMERGENCY CONDITIONS

Please complete this annexe if you are proposing to make a discharge of sewage in emergency or storm conditions (if the effluent is to contain a trade component then Annexe 3 should also be completed)

Official Use Only
Application No.

1. Site Name.

S.T.P. ADJACENT TO HAFAN DEG, LLANARTHNE,
CARMARTHENSHIRE

2. State the type of discharge - tick as appropriate:-

Storm tanks

☐

Combined Sewer Overflow from sewerage system

☐

Combined Sewer Overflow from pumping station

☐

Emergency overflow from sewerage system

☐

Emergency overflow from pumping station

☐

Other (please specify)

☐

CONTINUOUS FLOW FROM 'ENTEC 75' TREATMENT PLANT.

3. For effluents discharging from sewage treatment works, is the storm/emergency effluent discharged via the same outlet as the treated effluent? **SEPARATE SYSTEM.**

Y/N

If no please give: a) the National Grid Reference of the treated effluent outlet.

/ /

b) the consent or application number covering the treated effluent discharge.

If yes please give the National Grid Reference of the storm/emergency sampling point (see notes)

/ /

4. For effluents discharging from combined sewer overflows, is the discharge via a dedicated pipe? **N/A.**

Y/N

If no please give the National Grid Reference of the overflow into the sewer.

/ /

5. Overflow settings

a) Overflow setting to storm tanks.

N/A l/s

b) Maximum flow to storm tanks.

N/A l/s

c) Overflow setting to storm sewage overflow.

N/A l/s

d) Maximum flow to storm sewage overflow.

N/A l/s

6. Storage capacity

a) Volume of Storm Tanks.

N/A m³

b) Retention time of storm tanks at maximum flow.

N/A hours

c) Storage capacity of sewer/wet well.

N/A m³/day

7. Please provide full details of the design criteria that have been used to support this application.

'ENTEC' SEWAGE TREATMENT PLANT UNITS ARE PRE-DESIGNED FOR MAXIMUM NUMBER OF FULL TIME RESIDENTS

8. Will facilities be provided to raise alarms (eg. telemetry)?
If yes, please give details.

Y/☒

'ENTEC' POWER & PRESSURE FAILURE DETECTION SYSTEM.

9. Will facilities be provided to prevent the discharge of gross solids?
If yes, please give details (for screens give bar spacing or aperture).

Y/☒

PRIMARY SCREENING AND SETTLEMENT

10. What provisions will be made to deal with:

a) power failure (eg. standby generators)?

MOBILE GENERATOR

b) mechanical breakdown (eg. standby pumps)?

N/A.

c) rising main failure?

N/A

d) tanker access?

VEHICLE ACCESS TO TREATMENT PLANT.

Notes (see also the notes on the main form):

Full details of the design criteria must be provided in order for the application to be determined. If you have any queries about what information is required please contact the person given in notes attached to the main form.



ASiantaeth YR
AMGYLCHEDD
ENVIRONMENT
AGENCY

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.

S.T.P. ON LAND ADJACENT TO HAFAN DEG
LLANARTHNE, CARMARTHENSHIRE

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

W/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):

150 MM.

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

£45,000 (COMPOSED OF £18,000 for 'ENTEC'
UNIT + £27,000 for SEWER RUNS)

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

W/N

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

Tick

☐



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AGENCY

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

~~Pumped~~ / Gravity

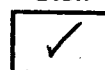
If pumped, please state the maximum pump rate in l/sec:

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



8. Please state:

Population served (head)	74
Consumption (l/head/day) default = 180	180
Infiltration (m ³ /day)	NIL
Industrial effluent flow (m ³ /day)	NIL
Dry Weather Flow (m ³ /day)	13.3
SOCA (l/sec)	N/A
Predicted spill frequency (per annum)	N/A

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.





ENVIRONMENT AGENCY

ANNEXE 3

TRADE EFFLUENT DISCHARGES

N/A

Please complete this annexe if you are proposing to discharge trade effluent (this includes site drainage).

Official Use Only
Application No.

1. Site Name.

2. a) Describe in full the trade effluent and the process(es) from which it arises.

b) Please state the type and number of treatment units you are proposing to use (*if site drainage please include details of oil/petrol interception facilities*).

3. Rainfall Dependent Discharges

a) Is the volume going to be rainfall dependent?

Y/N

b) If yes, please give the total area drained.

m²

c) Please give details of any activities which occur in the drainage area which could contaminate surface water (see note b)

4. Rainfall Independent Discharges

a) What is the maximum rate of discharge?

l/s

b) What is the average daily flow?

m³/d

c) For discharges where the source of supply is other than mains water:

i) give the abstraction licence number.

ii) give the National Grid Reference of a point where the influent can be sampled.

(please mark on the plan)

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, frequency and location (*please indicate on plan*).

6

a) Please state the maximum temperature in degrees Celsius of the effluent when discharged if different from ambient.

b) Will the discharge be monitored for temperature?

Y/N

If yes, please give details of type and location (*please indicate on plan*).

7

Has an application for Authorisation been made for a 'prescribed process' as defined in Part 1 of the Environmental Protection Act 1990?

Y/N

If yes, please complete the following:

a) The application reference.

c) Contact name of case officer.

8. a) Please indicate if any of the specified substances given below or their compounds will be present in the effluent and if so at what maximum concentration (please give values in micrograms per litre - ug/l). Please see note c.

SUBSTANCE	CONCENTRATION (ug/l)			SUBSTANCE	CONCENTRATION (ug/l)		
	Max	Min	Mean		Max	Min	Mean
Iron				Lead			
Arsenic				Malathion			
Atrazine				Mercury			
Azinphos-ethyl				Nickel			
Azinphos-methyl				PCB's			
Boron				PCSD's			
Cadmium				Parathion			
Carbon tetrachloride				Parathion-methyl			
Chloroform				Pentachlorophenol (PCP)			
Chromium				Perchloroethylene			
Copper				Permethrin			
Cyanide				pH < 5.5 or > 9.0			
Cyfluthrin				Phosphorus			
DDT				Polychlorinated biphenyls			
1,2 Dichloroethane				Simazine			
Dichlorvos				Sulcofuron			
Dioxins				Tetrachloroethylene			
Drins (eg. Aldrin, Dieldrin)				Tributyltin compounds			
Endosulfan				Trichlorobenzene			
Fenitrothion				Trichloroethane			
Fenthion				Trichloroethylene			
Fluocifuron				Trifluralin			
Hexachlorobenzene (HCB)				Triphenyltin compounds			
Hexachlorobutadiene (HCBD)				Vanadium			
Hexachlorocyclohexanes (HCH's)				Zinc			

- b) Are there any other significant chemical components used on site which may be contained in the effluent, including biocides or additives?

Y/N

If yes, please give details.

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

- a) For direct trade effluent discharges, full details of the type of the effluent are required (eg. cooling water from air conditioning units), along with typical analytical details and the results of any toxicity studies on the effluent or its constituents. In certain circumstances the Agency may require that specific samples be taken and tests and analysis carried out. The Agency is empowered to recover any costs incurred as a result of special studies.*
- b) Possible sources of contamination include oil/chemical storage areas, vehicle loading/unloading areas, heavy vehicle parking areas and oil/petrol filling points. Any other potential sources of contamination should be detailed.*
- c) Where discharges of trade effluent take place to a sewerage system, as covered by this application, please give details of all authorised discharges of substances listed in table 8 overleaf.*

Eich cyf / Your ref :

Fy nghyf / My ref : IN/80058/KP

Dyddiad / Date : 13 June 2001

07 JUN 2001

Gofynner am /

Please ask for : Mr Ken Phillips

Llinell Uniongyrchol /

Direct Line : 01267 228167

Environment Agency Wales,
Llys Afon,
Hawthorn Rise,
Haverfordwest,
Pembrokeshire.
SA61 2BQ.



For the attention of Mrs.H.J. Hughes – Team Leader Customer Contact & Authorisations.

Dear Sir,

LLANARTHNE SEWERAGE SCHEME, LLANARTHNE.

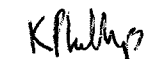
Further to your letter dated 25th May 2001. I enclosed for your attention an application for new consent to discharge. Also enclosed is a cheque for a further £108.00 as requested, together with four copies of Drawing No's. 80/0080/058/101 and /102 which indicates our proposals for dealing with effluent discharges from Council owned housing developments at Llanarthne.

Existing effluent discharges from dwellings discharge to cesspools situated at each of the three housing developments. Our proposals entails the treatment of domestic foul sewage from these developments by passing it through a Biotec sewage treatment plant located adjacent to Hafan Deg Housing Site. The treated effluent would then be combined with the surface water runoff from the Hafan Deg development i.e. roof and hardstanding for discharge through the existing surface water pipework to watercourse. A sample chamber will be provided downstream of the treatment plant as normally required by the Agency.

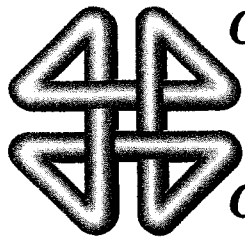
I would like to thank you for your intervention in this matter and I appreciate that you will arrange for this application to be processed as quickly as possible.

If you require any further information or would like to discuss the above please do not hesitate to contact Mr. Ken Phillips on the above direct telephone line.

Yours faithfully



**JOHN REES
DIRECTOR OF OPERATIONS**



Cyngor Sir
Caerfyrddin
Carmarthenshire
County Council

Gwasanaethu ein Cymuned / Serving our Community

20 JUN 2001

JOY
John L. Rees, B.Sc., C.Eng., M.I.C.E., M.I.L.A.M., M.I.M.g.,
Cyfarwyddwr Gweithrediadau
Parc Myrddin, Waun Dew, Caerfyrddin,
Sir Caerfyrddin SA31 1DS

Director of Operations
Parc Myrddin, Richmond Terrace, Carmarthen,
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Eich cyf / Your ref :

Fy nghyf / My ref : IN/80058/KP

Dyddiad / Date : 28 June 2001

Gofynner am /

Please ask for : Mr Ken Phillips

Llinell Uniongyrchol /

Direct Line : 01267 228167

Environment Agency Wales,
Llys Afon,
Hawthorn Rise,
Haverfordwest,
Pembrokeshire.
SA61 2BQ.

For the attention of Mrs.H.J. Hughes – Team Leader Customer Contact & Authorisations.

Dear Sir,

LLANARTHNE SEWERAGE SCHEME, LLANARTHNE.
Application No. BP0293301

Further to your letter dated 25th June 2001. I enclosed for your attention the following information:

- (i) Schedule of further information requested by the E.A.
- (ii) Details and technical specification of the type of package plant to be used. Including the levels to which it treats for BOD, Total Suspended Solids and Ammonia (NH4).
- (iii) Clarification of how a figure of 0.6 l/s was reached for the Maximum rate of discharge.

If you require any further information or would like to discuss the above please do not hesitate to contact Mr. Ken Phillips on the above direct telephone line.

Yours faithfully

11. K Phillips.

JOHN REES
DIRECTOR OF OPERATIONS



Application No.	BP0293301
Date issued	25 June 2001

SCHEDULE OF FURTHER INFORMATION REQUIRED

Could you please supply the following information:

1. Details and technical specifications of the type of package plant to be used. To include the levels to which it treats for BOD, Total Suspended Solids and Ammonia (NH₄).
2. Clarification of how a figure of 0.6 l/s was reached for the Maximum rate of discharge.

Asiantaeth yr Amgylchedd Cymru

Llys Afon, Hawthorn Rise, Hwlfordd, Sir Benfro. SA61 2BQ
Ffon: 01437 760081, Ffacs: 01437 760881

Environment Agency Wales

Llys Afon, Hawthorn Rise, Haverfordwest. Pembrokeshire. SA61 2BQ
Tel: 01437 760081, Fax: 01437 760881

Maximum Rate of Discharge from Housing Developments.

Population:

7 No. 2 bedroom properties = 14 persons.

17 No 3 bedroom properties = 51 persons.

Total population = 65 persons.

Consumption = 180 l/head/day

Infiltration = 10% (assumed)

DWF = 65×180 = 11700.

Infiltration @ 10% = $11700 \times 10\%$ = 1170.

DWF = $11700 + 1170$ = 12870 l/head/day.

DWF = $12870 / 24 / 3600$.
= 0.149 l/sec.

Assumed Peak DWF = 0.149×4 (dwf) = 0.596 l/sec.

Peak DWF = 0.6 l/sec.

75 P

APPLICATIONS

The Entec Biotec series of packaged sewage treatment plant is designed to treat the sewage from a whole range of developments where access to the main sewer is not possible.

Housing estates, camping and caravan sites, rest homes, schools, construction sites, hotels, country clubs, public houses, restaurants.

FEATURES

- Below ground installation, minimises visual impact.
- Built in surge flow control.
- No moving mechanical parts or electrical components within the plant.
- The cover has been specifically designed to blend with surroundings. Generous access for maintenance.
- Controlled ventilation minimises risk of odour nuisance.
- Efficient air blower is quiet and ensures low running and maintenance costs.
- Casing construction to BS4994 (1987) in GRP (Glass Reinforced Plastic).
- All Entec products are manufactured under the quality procedures of BS EN ISO 9002
- 2 year warranty on blower.

Cl/Sfb Reference

52.4 X

Sewage treatment plant



Sewage treatment plant

DESIGN

Biotec sewage treatment plants are available as standard or high level nitrification plants. They employ a development of the well proven aerobic biological process for the purification of sewage and waste water.

This process takes place in four distinct stages:-

1

This is the initial stage of treatment and simply involves the retention of coarse solids present in raw sewage and waste water for subsequent gradual breakdown.

2

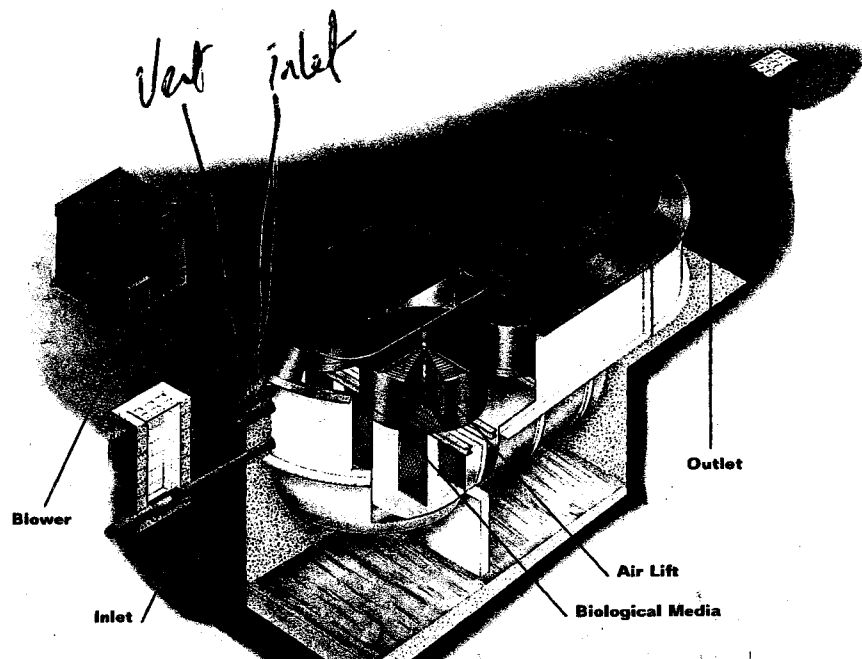
Substantial BOD reduction takes place here, where the carbonaceous pollutants are removed by presenting the sewage to the micro-organisms in the presence of oxygen. The treatment is achieved by continually distributing the screened liquids over the biological media.

3

Additional treatment is provided in order to reduce the Ammoniacal Nitrogen. There are two levels of Nitrification available. For most applications the standard is suitable. However, for particularly sensitive applications the high level unit can be selected.

4

A natural by-product of biological treatment is humus sludge and this is separated for further treatment. The treated effluent is discharged via the outlet. Under normal domestic conditions 20mg/l BOD, 30mg/l SS, 20mg/l Ammonia can be achieved with standard plants and 10mg/l Ammonia can be achieved with high rate plants.



INSTALLATION

The unit is normally installed below ground with the cover flush, however it can protrude above ground if required by site levels. Ideally siting should be under a pedestrian area no closer than 15m. from the nearest house. The tank should be vented independently or back through the building vent stack.

Installation is quick and economical, the plant requiring only to be seated on a concrete base with a surround of shingle in a dry site or concrete in a wet site.

OPTIONS

- Pumpsets - where the treated effluent has to be dispersed to a higher area because of site levels or ground water.
- Sample Chambers - for accurate and convenient effluent sampling, as required by the Environment Agency.
- Alarm Systems - for the warning of power or equipment failure.

		40P	55P	75P	100P	125P	150P
Weight	kg	1080	1100	1500	2000	2500	2900
Length	m.	4.9	4.9	6.8	7.6	8.1	9.9
Width	m.	2.8	2.8	2.8	2.8	2.8	2.8
Depth	m.	2.5	2.5	2.5	2.5	2.5	2.5
Motor Rating	kw	0.37	0.37	0.55	0.55	0.55	0.75

Please refer to separate leaflets for 4/6/12/18/25 population plant details

The blower housing can be sited anywhere with access to mains electricity within a 15m. radius of the plant itself.

MAINTENANCE

Biotec sewage treatment plant are designed for minimum low cost maintenance.

Entec offers a full commissioning and after sales service involving planned maintenance visits on the U.K. mainland.

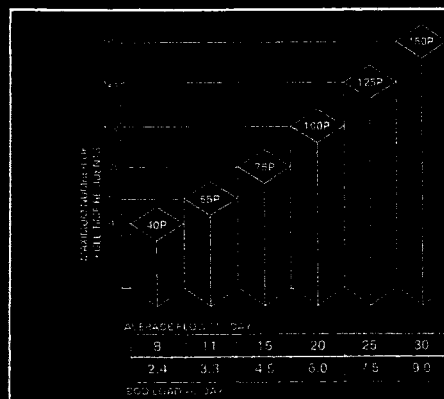
Under normal usage the plant will require periodic emptying to prevent excessive build up of surplus sludge.

ADVICE

The information in this sales literature is by necessity brief. For more detailed technical literature and drawings regarding applications, installation, maintenance or specific options, please contact Entec. We have both internal and field sales staff who will be pleased to assist.

LEGAL REQUIREMENTS

Prior to installation, there is a legal requirement to obtain a Consent to Discharge from the Environment Agency. Entec offer full assistance in this respect.



Entec

ENTEC (POLLUTION CONTROL) LTD
WEST PORTWAY
ANDOVER
HAMPSHIRE SP10 3LF

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SERVICE: 01264 352444
GEN: 01264 357666
FAX: 01264 366446



Certificate No FM11855

Sheet: BI007
Issue: B 3/3
Date: 08.00

Large Biotec Engineering & Process

Provided the residual BOD is low enough and sufficiently dissolved oxygen is available, Nitrification will be achieved in the second biological stage.

The percentage removal being related to the ammonia loading on the biological media.

Some Nitrification will normally have taken place in the first stage but any significant BOD pollution of the second stage, will detrimentally affect the Nitrification performance.

Accordingly plants are unlikely to Nitrify, if overloaded.

Cautionary Notes

- We do not recommend the use of air admittance valves with W.C. systems connected to the Biotec.
- Also we do not recommend pumped feed to Biotec plant without special reference to Titan.
- Sink waste disposal units should not be used in conjunction with the Biotec plant.
- Where installations serve any form of commercial kitchen. A Grease trap must be installed in the dedicated kitchen outlet drain.
- In hard water areas a softener may be required, where one is fitted, the spent regenerant must be routed to a separate small soakaway.

Entec

Titan reserve the right to change specifications without notice. Please ensure you have current technical information.



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Hampshire SP10 3LF

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E-mail: info@titanpc.co.uk
Website: www.titanpc.co.uk

Sheet: BI007
Issue: B 1/3
Date: 08.00

Large Biotec Engineering & Process

Biotec packaged sewage treatment plants for 40 – 150 population equivalent are designed to treat domestic sewage to final effluent quality of better than 30mg/l suspended solids, 20mg/l biochemical oxygen demand (BOD), 20mg/l Ammonia for the standard plant, and 10mg/l Ammonia for the high rate plant. They will achieve the above when loaded in accordance with the design limits for the plant. It is a requirement that treatment plants are operated and maintained in accordance with our instructions.

Biotec treatment plants can be used for non-domestic applications like Restaurants and Public Houses and indeed for higher percentage nitrification applications. Titan will be pleased to advise on special applications on a case by case basis.

The process used is two stage extended biological filtration which is a highly aerobic treatment employing continuously recycled screened effluent lifted with air lift pumps and distributed over special high specific surface area suspended media.

Three main areas of treatment are used in the process, the biological section can be considered as further subdivided into two stages.

Primary Screening & Settlement

Incoming domestic sewage enters a primary zone, which permits primary settlement and surplus sludge storage.

The sewage is screened on the discharge of the primary zone by a large vertical screen, which retains extraneous material larger than 10mm allowing it to gradually break down and subsequently to migrate through the screen into the next stage. Partial recirculation of under flow from the first stage media passes through the primary zone and assists in providing dilution to the primary zone contents and reduces septicity and the risk of odour.

Biological Treatment

Biological treatment is arranged in two successive stages along the flow path of the plant. The first section is dedicated to the reduction and substantial removal of carbonaceous BOD. This is achieved by picking up the screened liquor by air lift pumps and distributing it over the media on which a biological culture develops naturally. Neither seeding nor feeding normally being required.

Entec

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