


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:

 Regional Finance Manager
 Environment Agency
 P.O Box 663
 Cardiff CF2 1YD

Official Use Only

Dist/Area Ref: WEP4

Application No. BW2304001

Date Received: 3-11-99

 Fee Received: £617^(x2) (part of 2 apps)

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.

 GOWERTON WWTW
 VICTORIA RD
 GOWERTON
 SWANSEA

Post Code:

SA4 3AB

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

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"/> |

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

/ / (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)

/ / (please indicate on accompanying plans)

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

SPILL FREQUENCY MONITOR

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

STORM SETTLEMENT

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?

VARIAION TO
TIE IN WITH
UPGRADE OF
TREATMENT
PROCESS

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.

UNDER STORM CONDITIONS WHEN STORM TANK IS FULL

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).

FINAL EFFLUENT DC 0003001
GOWERTON STW SSO BW 2304001 ✓
S/O LLAN CONFLUENCE BW 2300401

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.

CITY & COUNTY OF SWANSEA

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

- | | | | |
|---|--------------------------|----------------------------|-------------------------------------|
| 1. Single Dwelling | <input type="checkbox"/> | 6. Fish Farm | <input type="checkbox"/> |
| 2. Multiple Dwellings | <input type="checkbox"/> | 7. Mineral Workings | <input type="checkbox"/> |
| 3. Industrial Premises | <input type="checkbox"/> | 8. Water Services plc STW | <input checked="" type="checkbox"/> |
| 4. Vehicle Parking Area | <input type="checkbox"/> | 9. Water Supply | <input type="checkbox"/> |
| 5. Commercial Premises (please specify) | <input type="checkbox"/> | 10. Other (please specify) | <input type="checkbox"/> |

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 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:

LOUGHOR ESTUARY

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)? N/A 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.

* 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

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: <u>A. R. Andrews</u>	PRINT NAME: <u>ANDREWS</u>
ON BEHALF OF: <u>DWR GMRV CYF</u>	DATED: <u>22-10-99</u>

o o o

CONFIDENTIALITY

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

SIGNED:	DATED:
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PLEASE RETURN THIS FORM TO THE ADDRESS GIVEN ON THE FRONT PAGE



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)

<p><i>Official Use Only</i> Application No.</p>

1. Site Name.

<p>GOWERTON WWTW VICTORIA RD GOWERTON SWANSEA</p>

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)

--

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

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.

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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.

612 l/s

b) Maximum flow to storm tanks.

NOT KNOWN

l/s

c) Overflow setting to storm sewage overflow.

/ l/s

d) Maximum flow to storm sewage overflow.

/ l/s

6. Storage capacity

a) Volume of Storm Tanks.

5148 m³

b) Retention time of storm tanks at maximum flow.

NOT KNOWN

hours

c) Storage capacity of sewer/wet well.

/ m³/day

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

> 2 HOURS AT 3PG+L+3E

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

Y/N

STORM DISCHARGE FREQUENCY RECORDER

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/ N

12mm BAR SCREENS FOLLOWED BY SETTLEMENT WITH SCUM BOARDS

10. What provisions will be made to deal with:

a) power failure (eg. standby generators)?

ON SITE GENERATOR

b) mechanical breakdown (eg. standby pumps)?

DUTY / STANDBY PUMPS

c) rising main failure?

N/A

d) tanker access?

YES

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.



ANNEXE 3
TRADE EFFLUENT DISCHARGES

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

Official Use Only
Application No.

1. Site Name.

GOWERTON WWTW
VICTORIA RD
GOWERTON

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

SEE "GOWERTON WWTW, TRADE EFFLUENT INFORMATION - OCTOBER 1999"

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).

N/A

3. Rainfall Dependent Discharges

a) Is the volume going to be rainfall dependent? TRADE ELEMENT IS NOT 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? MAXIMUM CONSENTED* TRADE EFFLUENT DAILY FLOW 2030 m³/d

* CURRENTLY HIGHER THAN THIS (SEE INDIVIDUAL TRADE EFFLUENT SHEETS) BUT CONSENT FOR 5 TRADE EFFLUENTS ARE UNDER REVIEW

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.

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			
Flucofuron				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.

TIMET IS CONSENTED FLUORIDE 80 mg/l

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.*



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.

GOWERTON WWTW
VICTORIA RD
GOWERTON

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

Y/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):

1825 mm ϕ

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

~ £ 2.2 MILLION

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

Y/N

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

Tick





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:

N/A

Tick

8. Please state:

Population served (head)	<u>69,000</u>
Consumption (l/head/day) default = 180	<u>0.185</u>
Infiltration (m ³ /day)	<u>8478</u>
Industrial effluent flow (m ³ /day)	<u>2030</u>
Dry Weather Flow (m ³ /day)	<u>23273</u>
SOCA (l/sec)	<u>1402</u>
Predicted spill frequency (per annum)	<u> </u>

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.



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

The Environment Agency ("the Agency") hereby confirm that the above named person is a/the registered holder of consent BW2304001

Nature of Discharge(s); SEWAGE EFF/STORM EFF/RAINFALL
at GOWERTON STW SETTLED SS SETTL

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:

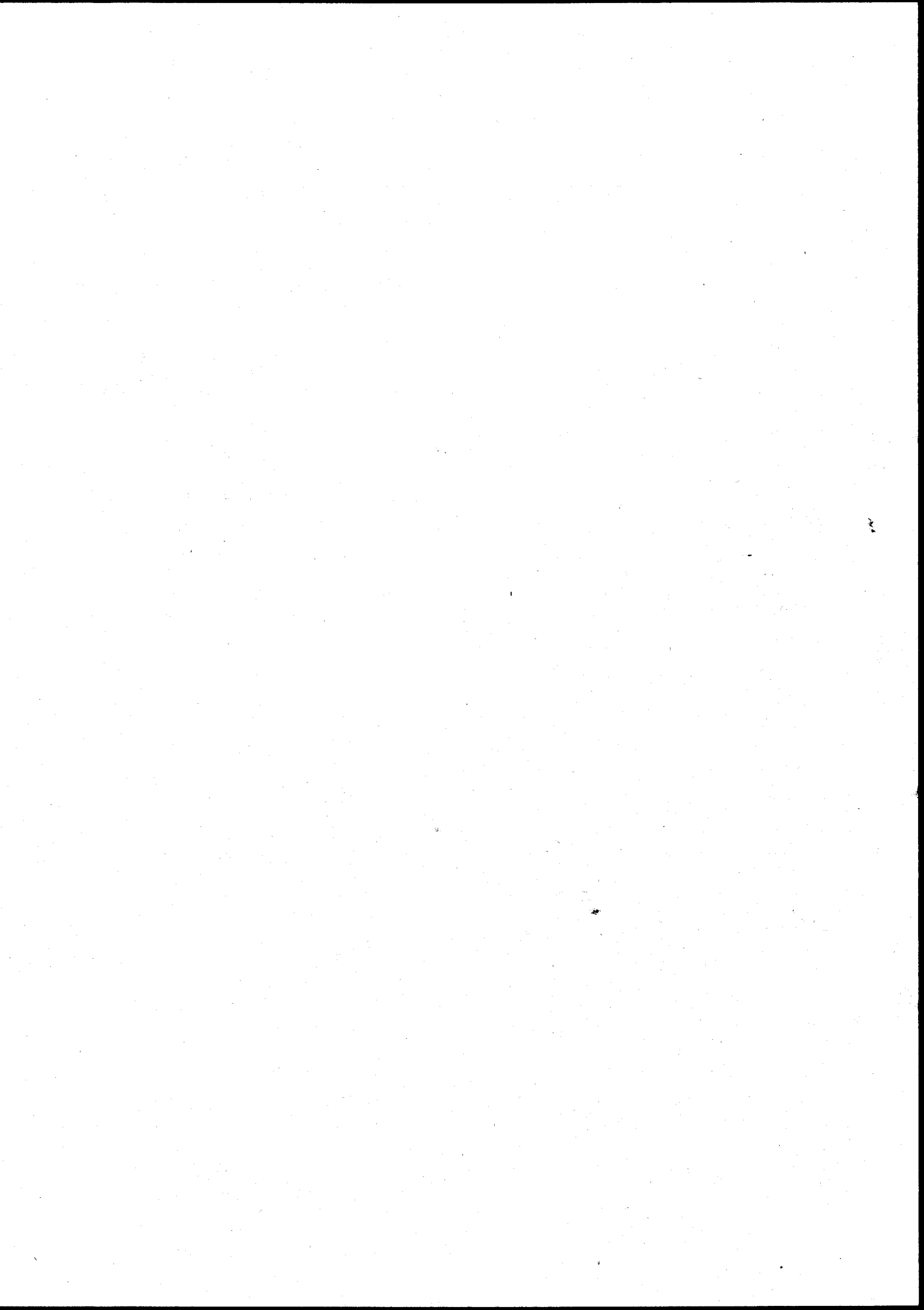
Post Code:

Date of Transfer to new Holder(s);

Signed:..... Dated:.....

Name (block capitals): Position:







ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Eich cyf/Your ref.

Ein cyf/Our ref. 2/EQ/BW2304001/SA/EAP

Dyddiad/Date: Date as Postmark

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

Dear Sir/Madam

RE: WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995) APPLICATION FOR VARIATION OF CONSENT TO DISCHARGE NO BW2304001

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 sewage effluent from Gowerton Wastewater 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.

If you are not satisfied with the new conditions of the consent you may appeal against the decision to the National Assembly for Wales, Cathays Park, Cardiff CF10 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. 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.

Cont/d...2

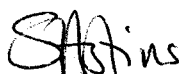
Asiantaeth yr Amgylchedd Cymru
Llys Afon, Hawthorn Rise, Hwlfordd, Sir Benfro. SA61 2BQ
Ffon: 01437 760081, Ffacs: 01437 760881

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



If you have any queries regarding the enforcement of this consent, please do not hesitate to contact Huw Davies Team Leader Environment Protection, Environment Agency, Glan Tawe, 154 St Helens Road, Swansea.

Yours faithfully,



 **NIALL REYNOLDS**
Environment Planning Manager

Enc.

CONSENT NO.

BW2304001



ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

VARIATION OF CONSENT TO DISCHARGE

TO: Environment Quality Scientist
Dwr 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:

SETTLED STORM SEWAGE

With respect to Consent No. BW2304001 dated the 25th day of May 1983

FROM: GOWERTON WASTEWATER TREATMENT WORKS

AT: GOWERTON

TO: THE LOUGHOR ESTUARY

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

SETTLED STORM SEWAGE

SCHEDULE NO. BW2304001 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 alters 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 23rd day of May 2000

Signed H. J. Williams
Water Quality Consents Team Leader

Asiantaeth yr Amgylchedd Cymru
Glan Tawe, 154 Ffordd Sant Helen, Abertawe SA1 4DF Ffon 01792 645300, Ffacs 01792 648652

Environment Agency Wales
Glan Tawe, 154 St Helens Road, Swansea Tel 01792 645300, Fax 01792 648652



CONSENT NO.	BW2304001
SCHEDULE NO.	BW2304001 01
DATED	23rd May 2000



ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales

CONDITIONS OF CONSENT TO DISCHARGE

SETTLED STORM SEWAGE ("the Discharge")

FROM: GOWERTON WASTEWATER TREATMENT WORKS

NATURE

1. The Discharge shall consist solely of settled storm sewage.

LOCATION

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 1825 millimetre diameter pipe;
 - (b) discharging to the Loughor Estuary;
 - (c) at National Grid Reference SS 5611 9790
 - (d) shown marked 'Consent Point' on Plan BW2304001 attached as Annex 1.

SAMPLE POINT

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SS 5959 9705, as shown marked 'Settled Storm Sample Chamber' on Plan BW2304001, 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 Discharge shall occur when and only for as long as, the storm tanks are full. The discharge of storm sewage to the storm tank shall only occur when the rate of flow at the storm sewage-separating weir is in excess of 612 litres per second due to rainfall and/or snowmelt. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.
5. The capacity of the storm tank(s) shall be at least 5148 cubic metres.



CONSENT NO.	BW2304001
SCHEDULE NO.	BW2304001 01



ASiantaeth Yr
Amgylchedd Cymru
ENVIRONMENT
AGENCY WALES

COMPOSITION

6. (a) The Discharge shall not contain a significant quantity of solid matter having a size greater than 10 millimetres in more than two dimension(s).
- (b) The Discharge shall not be comminuted or macerated to achieve the standard in (a) above.
- (c) All screenings must be removed and disposed of in a manner such as to prevent entry to the discharge.

WORKS OPERATION

7. 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 any alteration of the works or a change in the type of treatment used.

RECORDING AND REPORTING

8. (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.
9. 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.

SUBSTANTIAL CHANGE

10. 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.
- 10.1 A discharge of trade effluent into the works is new if;



CONSENT NO.	BW2304001
SCHEDULE NO.	BW2304001 01



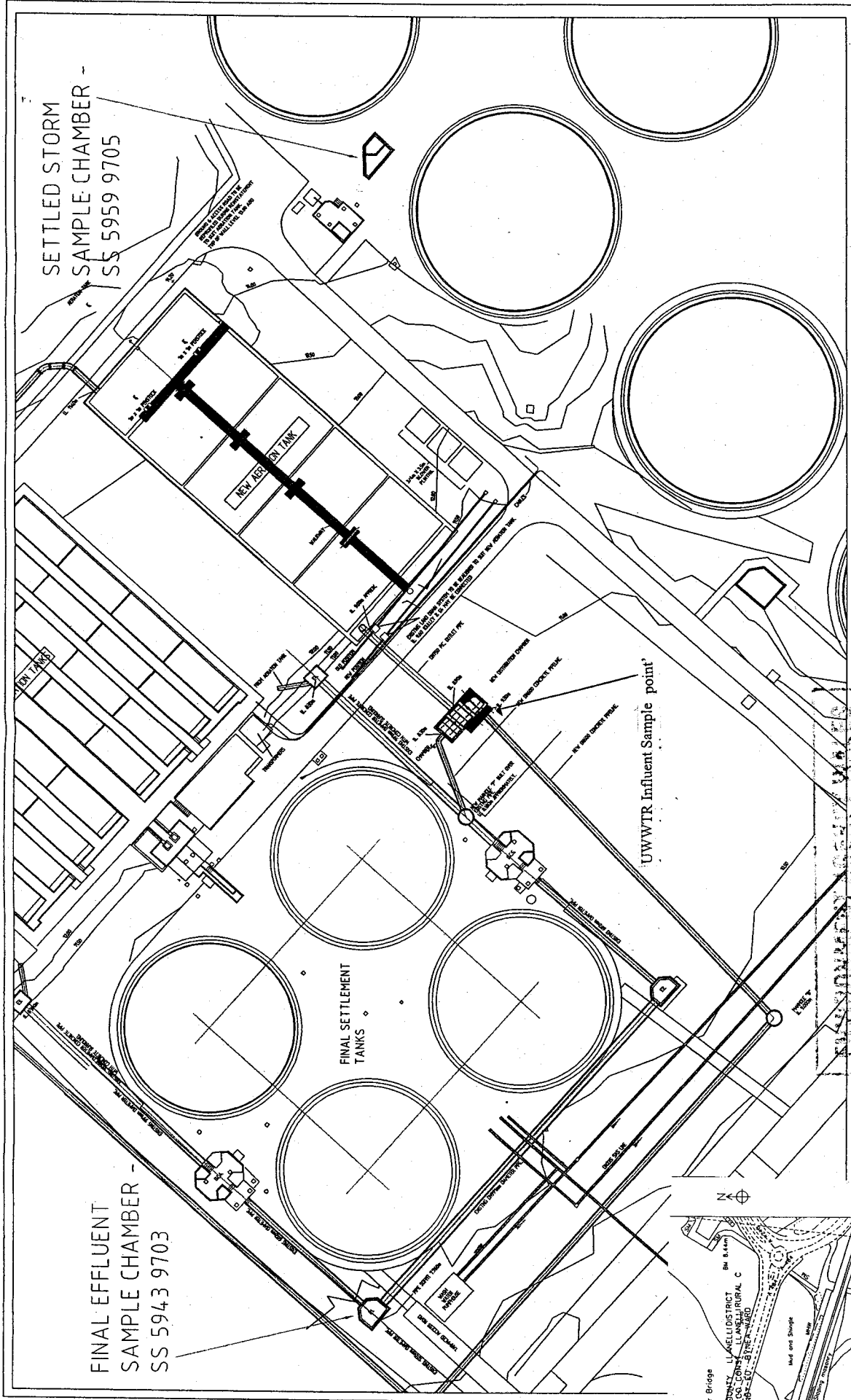
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- (a) it is made by the sewerage undertaker and is of a kind not made into the works by the undertaker immediately before the due date of effect of this consent; or
 - (b) it is made by a third party and the discharge is authorised on or after that date.
- 10.2 A discharge of trade effluent into the works is altered if;
- (a) it is made by the sewerage undertaker and its composition or quality 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.
- 10.3 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 of this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.
- 10.4 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 or Part IV of the Water Industry Act 1991 or which is only accepted as a result of a contract with sewerage undertaker.

UNAUTHORISED DISCHARGES

11. 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 discharges 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.



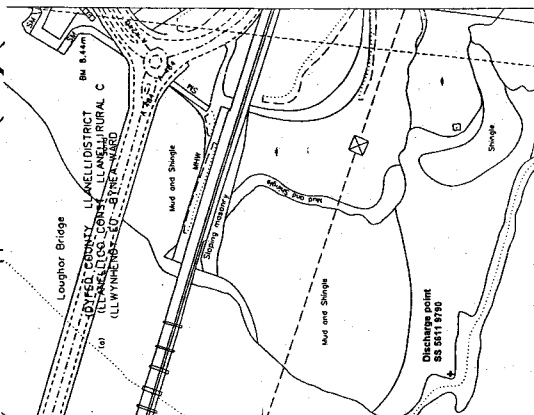


HYDER CONSULTING 22, Bore Lane Borehamwood Herts. SG9 6JH Tel: 0456 874444 Fax: 0456 874444		Project No. NE01871 Drawing No. 015 Issue A
GOWERTON WWTW		TITLE SAMPLE CHAMBER LOCATION PLAN
DWR CYMRU WELSH WATER		Scale: A3 1:500 Date:
Name:		
Date:		

PLAN N° BW2304001

23rd May 2000 *Atto*

ANNEX 1



CONSENT NO.	BW2304001
SCHEDULE NO.	BW2304001 01



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Amgylchedd Cymru
Environment
Agency Wales

ANNEX 2

- | | |
|--|------------------------------|
| 1. Mercury and its compounds | 2. Cadmium and its compounds |
| 3. Hexachlorocyclohexane
(lindane and related compounds) | 4. Carbon tetrachloride |
| 5. DDT (the isomers of 1,1,1-trichloro-2,2 bis{p-chlorophenyl} ethane) | 7. Aldrin |
| 6. Pentachlorophenol (PCP) | 9. Endrin |
| 8. Dieldrin | 11. Hexachlorobenzene (HCB) |
| 10. Isodrin | 13. Chloroform |
| 12. Hexachlorobutadiene (HCBD) | 15. Dichlorvos |
| 14. Polychlorinated biphenyls | 17. Trichlorobenzene |
| 16. 1,2-Dichloroethane | 19. Simazine |
| 18. Atrazine | 21. Triphenyltin compounds |
| 20. Tributyltin compounds | 23. Fenitrothion |
| 22. Trifluralin | 25. Malathion |
| 24. Azinphos-methyl | 27. Lead |
| 26. Endosulfan | 29. Zinc |
| 28. Chromium | 31. Nickel |
| 30. Copper | 33. *Iron |
| 32. Arsenic | 35. *Boron |
| 34. *pH outside range 5.5 to 9.0 | 37. PCSD'S |
| 36. Vanadium | 39. Sulcofuron |
| 38. Cyfluthrin | 41. Permethrin |
| 40. Flucofuron | 43. 2-Chlorophenol |
| 42. 4-Chloro-3-methyl-phenol | 45. 2,4-D (ester) |
| 44. 2,4-Dichlorophenol | 47. 1,1,1-Trichloroethane |
| 46. 2,4-D (non ester) | 49. Bentazone |
| 48. 1,1,2-Trichloroethane | 51. Biphenyl |
| 50. Benzene | 53. Demeton |
| 52. Chloronitrotoluenes | 55. Linuron |
| 54. Dimethoate | 57. Mecoprop |
| 56. MCPA | 59. Napthalene |
| 58. Mevinphos | 61. Toluene |
| 60. Omethoate | 63. Xylene |
| 62. Triazophos | 65. Azinphos-ethyl |
| 64. Cyanide | 67. Parathion |
| 66. Fenthion | 69. Trichloroethylene |
| 68. Parathion-methyl | 71. Dioxins |
| 70. Tetrachloroethylene | 73. Nonyl phenol |
| 72. PAHs | 75. Di-ethylhexyl phthalate |
| 74. Nonyl phenyl ethoxylate | 77. Diazinon |
| 76. Bisphenol-A | 79. Chlorotoluron |
| 78. Chlorfenvinphos | 81. Diuron |
| 80. Isoproturon | 83. Flumethrin |
| 82. Propetamphos | 85. High-Cis Cypermethrin |
| 84. Amitraz | 87. Deltamethrin |
| 86. Cyromazine | |
| 88. Cypermethrin | |

This list is applicable as at 1 December 1998 and will be updated as and when changes to the relevant legislative requirements occur.

*Notification to the Agency by the Consent holder is only required in respect of changes to trade effluents likely to cause significant changes to the pH value, and/or iron or boron concentrations, of the crude sewage.



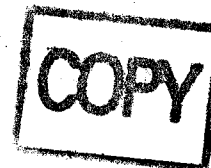
Water Resources Act 1991
as amended by the Environment Act 1995
Consent to Discharge
Certificate of Holder



**ENVIRONMENT
AGENCY**

Part A

To: DWR CYMRU CYFYNGEDIG
ENVIRONMENT QUALITY SCIENTIST
PLAS-Y-FFYNNON CAMBRIAN WAY
BRECON
LD3 7HP



NB: For a body corporate the job title is a point of contact.
Holder Start Date: 23/05/00

The **Environment Agency** ("the Agency") hereby confirm that the above named person is a/the registered holder of consent **BW2304001** Consent Issued: **23/05/00**

Nature of Discharge(s); **SSOR Sewage - Storm effluent - Rainfall**
at **SS5611097900 GOWERTON WWTW (STW) GWERTON SWANSEA**

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: **BW2304001** Name: **DWR CYMRU CYFYNGEDIG**
Consent Issued: **16/05/67** Address: **ENVIRONMENT QUALITY SCIENTIST
PLAS-Y-FFYNNON CAMBRIAN WAY
BRECON
LD3 7HP**

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);

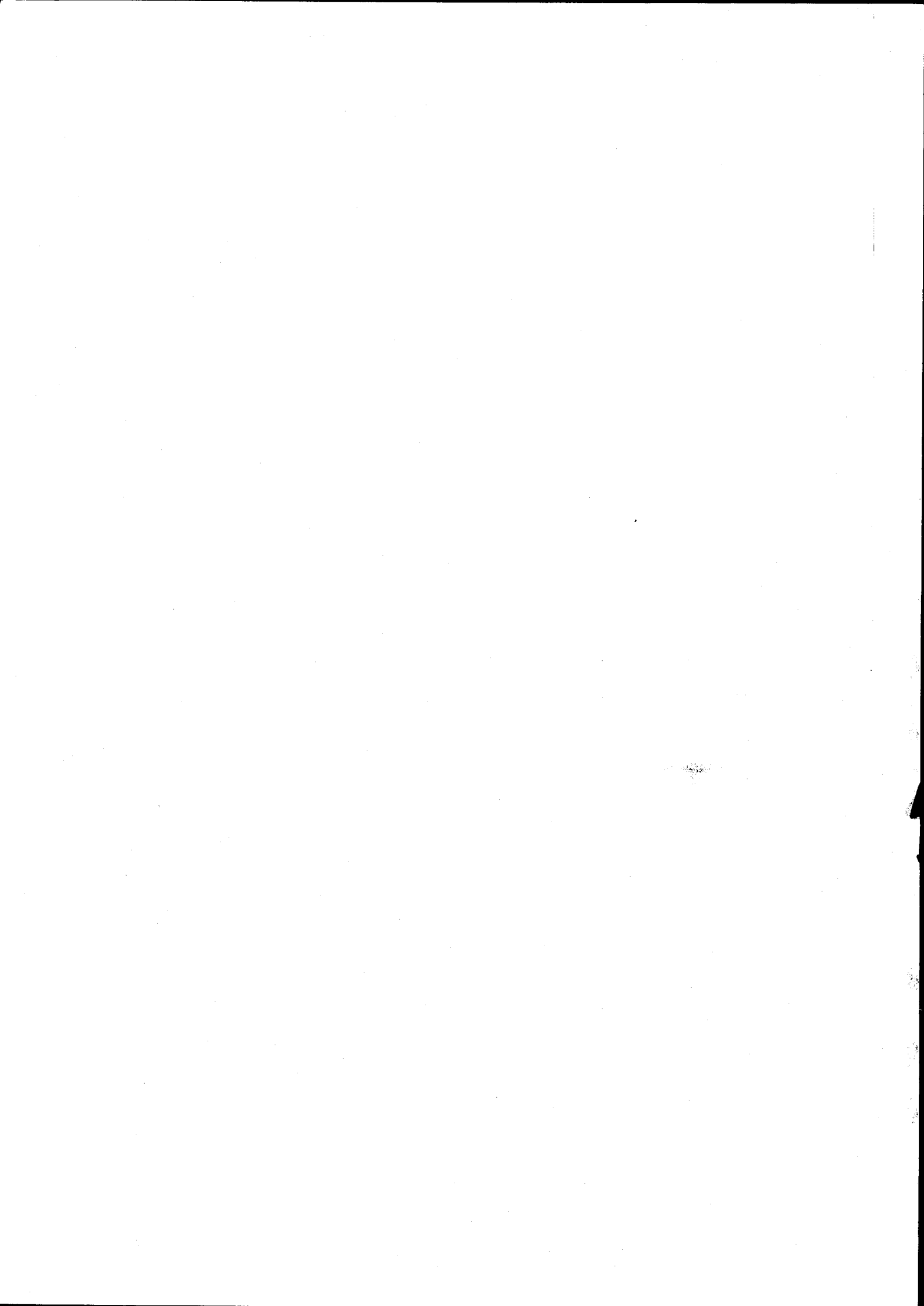
Signed:

Dated:

Name (block capitals):

Position:





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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: The Regional Finance Manager Environment Agency Welsh Region PO Box 425 St Mellons Business Park CARDIFF CF3 0LT	<i>Official Use Only</i> Dist/Area Ref: 1303 <i>Application No.</i> <i>Date Received:</i> <i>Fee Received:</i>	E. A. WALES chg: 004590 30 NOV 2004 Rec: 4994 £ 743.00 PAID <i>lett</i>
--	--	--

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 relevant sections and provisions 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 (see note xiii).

1 SITE ADDRESS

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

Gowerton WwTW
Victoria Road
Gowerton
Swansea

Post Code:

SA4 3AB

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
Briefly state how this figure was calculated (see note ii).

Not known

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"/> |

1875mm pipe into twin 1350mm pipes back to 1875mm pipe to outfall

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

S	S	5	6	0	8	7	9	7	8	3	3
---	---	---	---	---	---	---	---	---	---	---	---

(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	S	5	9	5	4	0	9	6	9	9	1
---	---	---	---	---	---	---	---	---	---	---	---

(please indicate on accompanying plans)

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

N/a

- 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

6mm screening of all flows, flow to storm passed through 5 settlement tanks, 3 tanks in 1st stage and secondary settlement in 2 tanks

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

No

None for treated flows, polyelectrolyte used in sludge thickening

- 2.6 a) On what date do you anticipate the discharge will commence?

31/03/05

- 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.

During prolonged and heavy rainfall

- 2.7 a) Are there any existing consents for discharges from the premises (see note vi)?

YES

If yes, please give the reference numbers (Any further information should be given in Section 5.3).

BC0003001 – main treatment process

BW2304001 – settled storm

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

NO

3 SITE DETAILS

- 3.1 Please give the name of the relevant Planning Authority.

City and County of Swansea

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

- | | | | |
|------------------------|--------------------------|---------------------------|-------------------------------------|
| 1. Single Dwelling | <input type="checkbox"/> | 6. Fish Farm | <input type="checkbox"/> |
| 2. Multiple Dwellings | <input type="checkbox"/> | 7. Mineral Workings | <input type="checkbox"/> |
| 3. Industrial Premises | <input type="checkbox"/> | 8. Water Services plc STW | <input checked="" type="checkbox"/> |

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: Not Applicable

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)

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, Lock or Pond 8. Coastal Water (see note vii)

State name of receiving water if known:

4.2 In the case of sub-irrigation systems, soakaways or boreholes: Not Applicable

(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

(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

* Pentwyn Road

* Nelson

* Treharris

* Mid Glam

Post Code: CF46 6LY

Daytime Telephone Number:

Company Registration Number (if appropriate): 2366777

(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

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 Environmental 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 be completing section 5.2 above (see note xiv).

(* Delete as appropriate)

SIGNED: <i>Lewis Keir</i>		PRINT NAME: <i>LEWIS KEIR</i>	
ON	BEHALF	OF: <i>DWR CYMRU CTF</i>	DATED: <i>29/11/04</i>
.....			

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



5. Overflow settings

- a) Overflow setting to storm tanks 612 l/s
- b) Maximum flow to storm tanks Not applicable
- c) Overflow setting to storm sewage overflow Not applicable
- d) Maximum flow to storm sewage overflow Not applicable

6. Storage capacity

- a) Volume of Storm tanks 8913 m³
- b) Retention time of storm tanks at 3PG + I + 3E flow 4 hours
- c) Storage capacity of sewer/wet well Not applicable

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

Modelling of the storm flows and discharges under the METOC report of the Lougher Estuary predicted if the spill frequency was limited to 22 per annum, the water quality would be adequate to meet the shellfish requirements. Please refer to the PDP for Lougher Estuary.

8. Will facilities be provided to raise alarms (eg telemetry)? YES

If yes, please give details.

Storm spill event and duration recorder on the storm overflow line. The information is sent to telemetry

9. Will facilities be provided to prevent the discharge of gross solids? YES

If yes, please give details (for screens give bar spacing or aperture).

All flow to the works is passed through 4 no. 6mm perforated screen

10. What provisions will be made to deal with:

- a) power failure (e.g. standby generators)?

Standby generator feeds a storm pump and alarm raised. There is also a manual change over for dual power supply

- b) mechanical breakdown (e.g. standby pumps)?

Standby pumps are provided.

- c) rising main failure?

n/a

- d) tanker access?

YES to all areas of the site

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.

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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 Annex 3 should also be completed).

Official Use Only
Application No.

1. Site Name.

Gowerton WwTW

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)

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

YES

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)

S	S	5	9	5	4	0	9	6	9	9	1
---	---	---	---	---	---	---	---	---	---	---	---

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

N/a

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

--	--	--	--	--	--	--	--	--	--	--	--

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ANNEXE 3 TRADE EFFLUENT DISCHARGES

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

Official Use Only
Application No.

1. Site Name.
Gowerton WwTW

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

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).
n/a

3. Rainfall Dependent Discharges

a) Is the volume going to be rainfall dependent? NO
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? 70 l/s
b) What is the MAXIMUM daily flow? 2328 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? NO
If yes, please give details

b) Will automatic sampling equipment be provided? NO
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.

Ambient

b) Will the discharge be monitored for temperature? NO
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? NO

If yes, please complete the following:

a) The application reference.

b) 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				<i>Lead</i>	X			
Arsenic				Malathion				
Atrazine				Mercury				
Azinphos-ethyl				<i>Nickel</i>	X			
Azinphos-methyl				PCB's				
Boron				PCSD's				
Cadmium				Parathion				
Carbon tetrachloride				Parathion-methyl				
Chloroform				Pentachlorophenol (PCP)				
<i>Chromium</i>	X			Perchloroethylene				
<i>Copper</i>	X			Permethrin				
<i>Cyanide</i>	X			pH <5.5 or >9.0				
Cyfluthrin				Phosphorus				
DDT				Polychlorinated biphenyls				
1,2 Dichloroethane				Simazine				
Dichlorovos				Sulcofuron				
Dioxins				Tetrachloroethylene				
Drins (eg Aldrin, Dieldrin)				Tributyltin compounds				
Endosulfan				Trichlorobenzene				
Fenitrothion				Trichloroethane				
Fenthion				Trichloroethylene				
Flucofuron				Trifluralin				
Hexachlorobenzene (HCB)				Triphenyltin compounds				
Hexachlorobutadiene (HCBd)				Vanadium				
Hexachlorocyclohexanes (HCH's)				<i>Zinc</i>	X			

- b) Are there any other significant chemical components used on site which may be contained in the effluent, including biocides or additives? YES
 If yes, please give details.

There is Flouride in the discharge from Timet of 80mg/l in 500m³/d (40kg/d)

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.*

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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.

Gowerton STW

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

NO

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 of the main application form), please state the diameter (including units):

1875mm into twin 1350mm back

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

Circa £5million including pump away schemes

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

YES

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

Tick

X

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

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

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*

Annex 1 in separate works application

8. Please state:

Population served (head)	70,000
Consumption (l/head/day) default = 180	180
Infiltration (m ³ /day)	8,050
Industrial effluent flow (m ³ /day)	2,328
Dry Weather Flow (m ³ /day)	22,978
Soc A (l/sec)	1422
Predicted spill frequency (per annum)	22

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' (eg 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.**



DŴR CYMRU
W E L S H W A T E R

Gwaith Trin Dŵr Gwastraff Tregŵr
Heol Victoria
Tre Gŵyr
Abertawe SA4 3AB

Gowerton Waste Water Treatment Works
Victoria Road
Gowerton
Swansea SA4 3AB

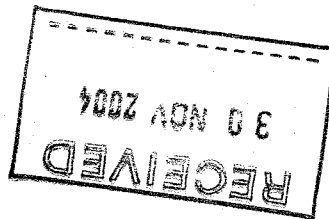
Ffacs: +44 (0)1792 872 604
Safle gwe: www.dwrcymru.com

Fax: +44 (0)1792 872 604
Web site: www.dwrcymru.com

Mrs Lynne Lewis
Environment Agency Wales
'Maes Newydd'
Llandarcy
Neath and Port Talbot
SA10 6JQ

29th November 2004

Tel 01792 511828



Dear Mrs Lewis,

Gowerton WwTW

Please find enclosed two applications for variation of consent for Gowerton WwTW:

- Final Effluent BC0003001
- STW Settled Storm BW2304001

I enclosed cheque numbers 4590 & 4593 totalling £1486.

Yours sincerely,

Dr Lewis Keil
Scientist - Wastewater



CONSENT NO. BW2304001



ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

WATER RESOURCES ACT 1991

SECTION 88 – SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

VARIATION OF CONSENT TO DISCHARGE

TO: Environment Quality Scientist
Dwr Cymru Cyfyngedig
Pentwyn Road
Nelson
Treharris
CF64 6LY

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 a discharge OF SETTLED STORM SEWAGE EFFLUENT, as follows:

with respect to Consent No. BW2304001 issued on the 28th day of May 2000

FROM: GOWERTON WwTW STORM TANKS

AT: VICTORIA ROAD, GOWERTON, SWANSEA

TO: LOUGHOR ESTUARY

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

SETTLED STORM SEWAGE BW2304001

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 alters 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 31st day of MARCH 2005

Signed.....

Team Leader Regulatory Water Quality



CONSENT NO.	BW2304001
SCHEDULE NO.	BW2304001 01
DATE ISSUED	31st March, 2005

CONDITIONS OF CONSENT TO DISCHARGE

SETTLED STORM SEWAGE ("the Discharge")

FROM: GOWERTON WwTW STORM TANKS

NATURE

1. The Discharge shall consist solely of settled storm sewage.

LOCATION

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 1350 millimetre diameter pipe;
 - (b) discharging to Loughor Estuary;
 - (c) at National Grid Reference SS56087 97833;
 - (d) shown marked 'Consent Point' on Plan BW2304001 attached as Annex 1.

SAMPLE POINT

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SS 59540 96991, as shown marked 'WRA settled Storm Sample Point' on Plan BW2304001, 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 Discharge shall occur when and only for as long as, the storm tanks are full. The discharge of storm sewage to the storm tank shall only occur when the rate of flow at the storm sewage-separating weir is in excess of 612 litres per second due to rainfall and /or snowmelt. The storm tanks shall be emptied and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.
5. The capacity of the storm tanks shall be at least 8913 cubic metres.

CONSENT NO.	BW2304001
SCHEDULE NO.	BW2304001 01



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Amgylchedd Cymru
Environment
Agency Wales

COMPOSITION

6. (a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.
- (b) The screening device shall be maintained in an efficient operational condition.
- (c) All screenings must be removed and disposed of in a manner such as to prevent entry to the discharge.
7. The discharge shall not be comminuted or macerated.

WORKS OPERATION

8. (a) 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.
- (b) This condition does not require any alteration of the works or a change in the type of treatment used.

RECORDING AND REPORTING

9. (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.
10. A recording system shall be provided and maintained to record the frequency and duration of storm events.
11. On request, the Consent Holder shall supply the Agency with written details of individual spill event(s).
12. (a) The Consent Holder shall supply both the appropriate Local food Authority(s) and the Agency, with an annual written report of the operation of the combined sewer overflow, to include date, start time and duration of each spill in accordance with the format provided by the Agency.
- (b) Provision of this report will coincide with the annual classification under the Shellfish Hygiene Directive. The report shall cover the 12 month period 1st April – 31st March inclusive, and shall be provided by the end of the following May.



CONSENT NO.	BW2304001
SCHEDULE NO.	BW2304001 01

SUBSTANTIAL CHANGE

13. 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.
14. 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 due date of effect of this consent; or
 - (a) it is made by a third party and the discharge is authorised on or after that date.
15. A discharger of trade effluent into the works is altered if –
 - (a) it is made by the sewerage undertaker and its composition or quality 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.
16. 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 characteristics of the discharge which is specifically regulated by conditions of this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.
17. 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 or Part IV of the Water Industry Act 1991 or which is only accepted as a result of a contract with sewerage undertaker.

UNAUTHORISED DISCHARGES

18. 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 discharges into the works.

CONSENT NO.	BW2304001
SCHEDULE NO.	BW2304001 01



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Amgylchedd Cymru
Environment
Agency Wales

- (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.
- (c) Nothing in this, or any other, condition of this consent prevents anyone from replying on any defence available to them under Section 87 of the Water Resources Act 1991.

PUMPS

19. The duty pump shall be maintained in good working order, and at least one stand-by pump shall be provided and maintained.
20. Stand-by pump shall automatically activate should the duty pump become inoperative for reasons other than power failure. The pumping station shall be maintained so that the pump shall automatically reactivate immediately after the power is restored after interruption to the supply.

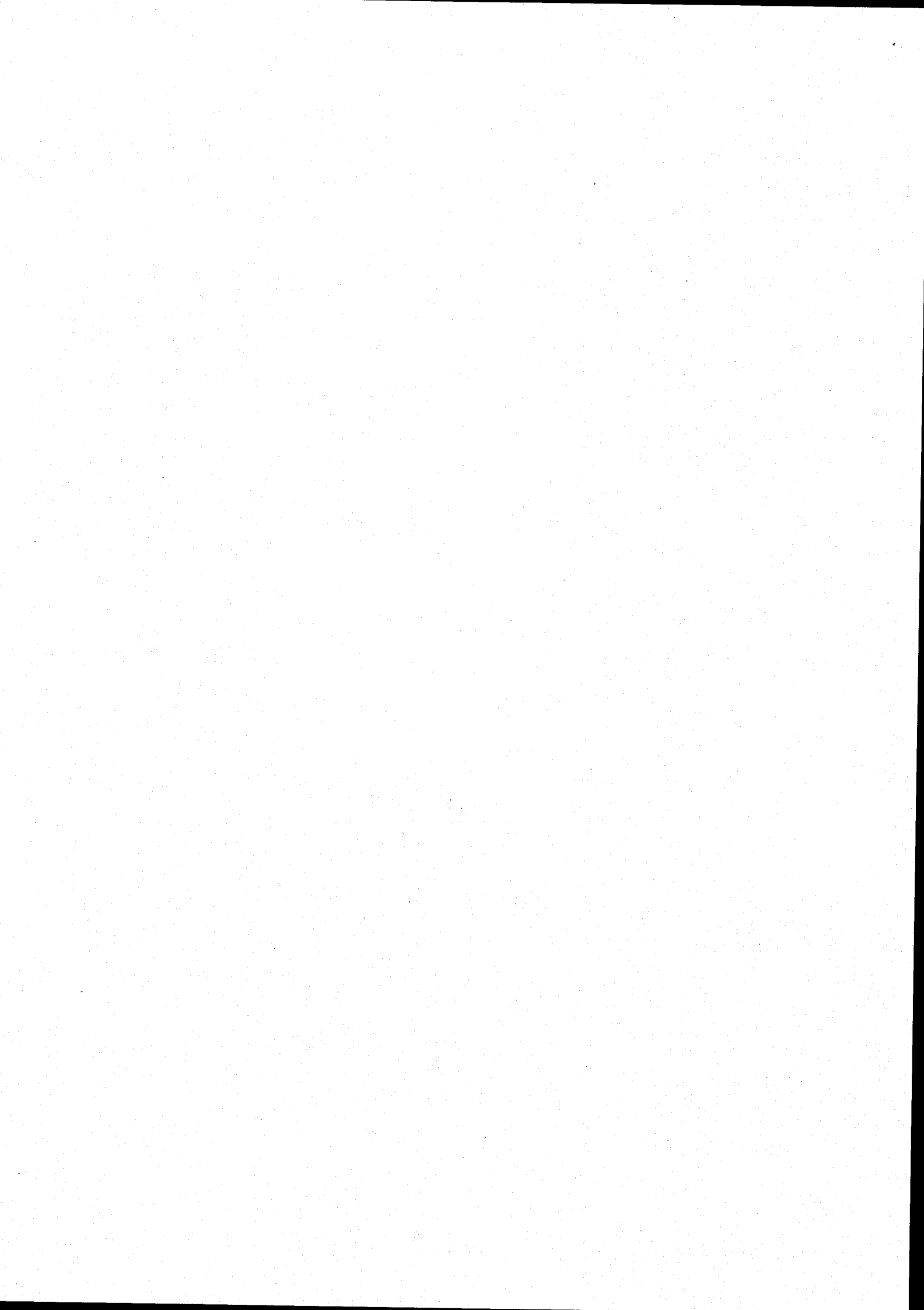
POWER

21. A permanent stand-by power generator shall be provided and maintained in good working order.

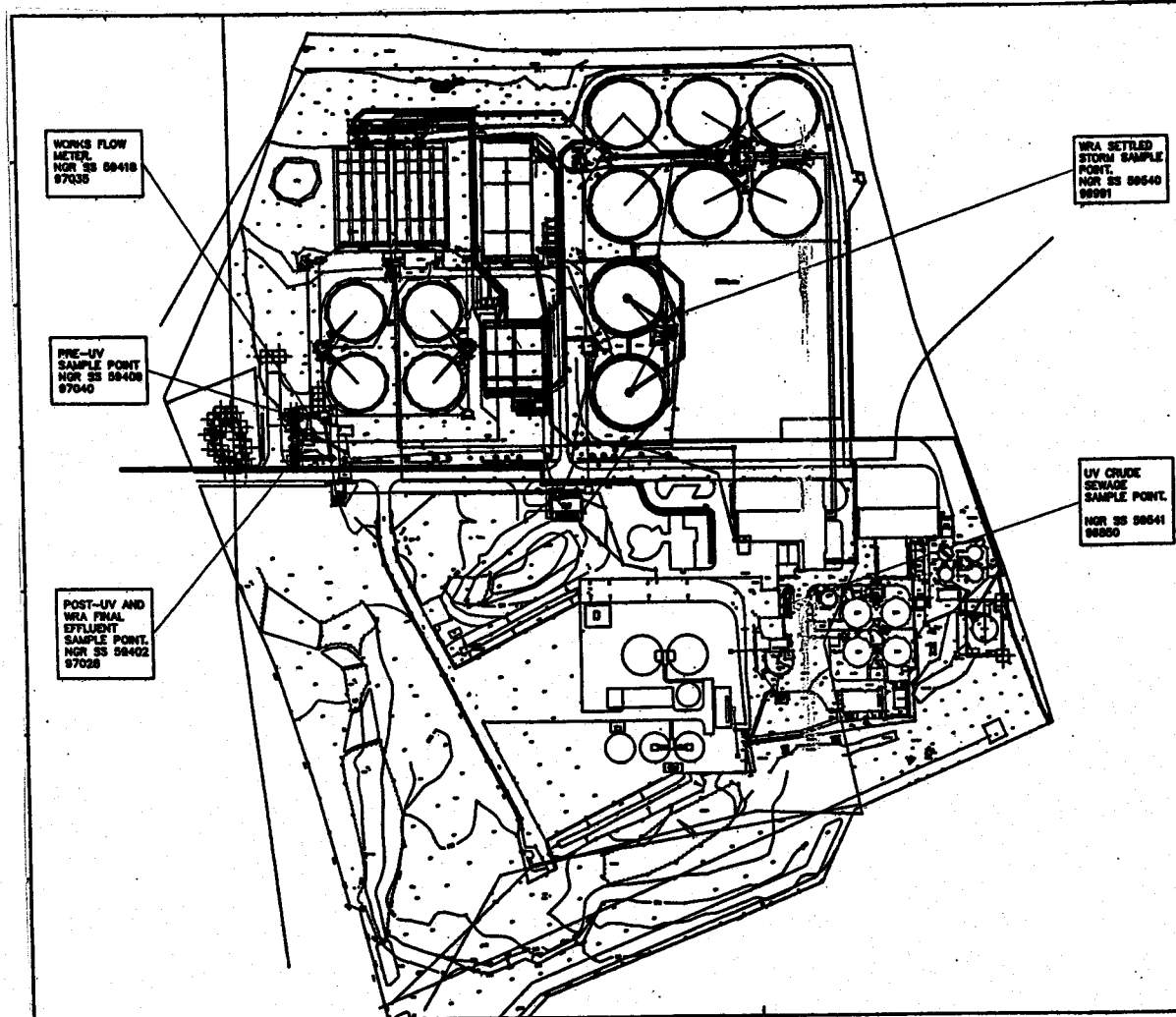
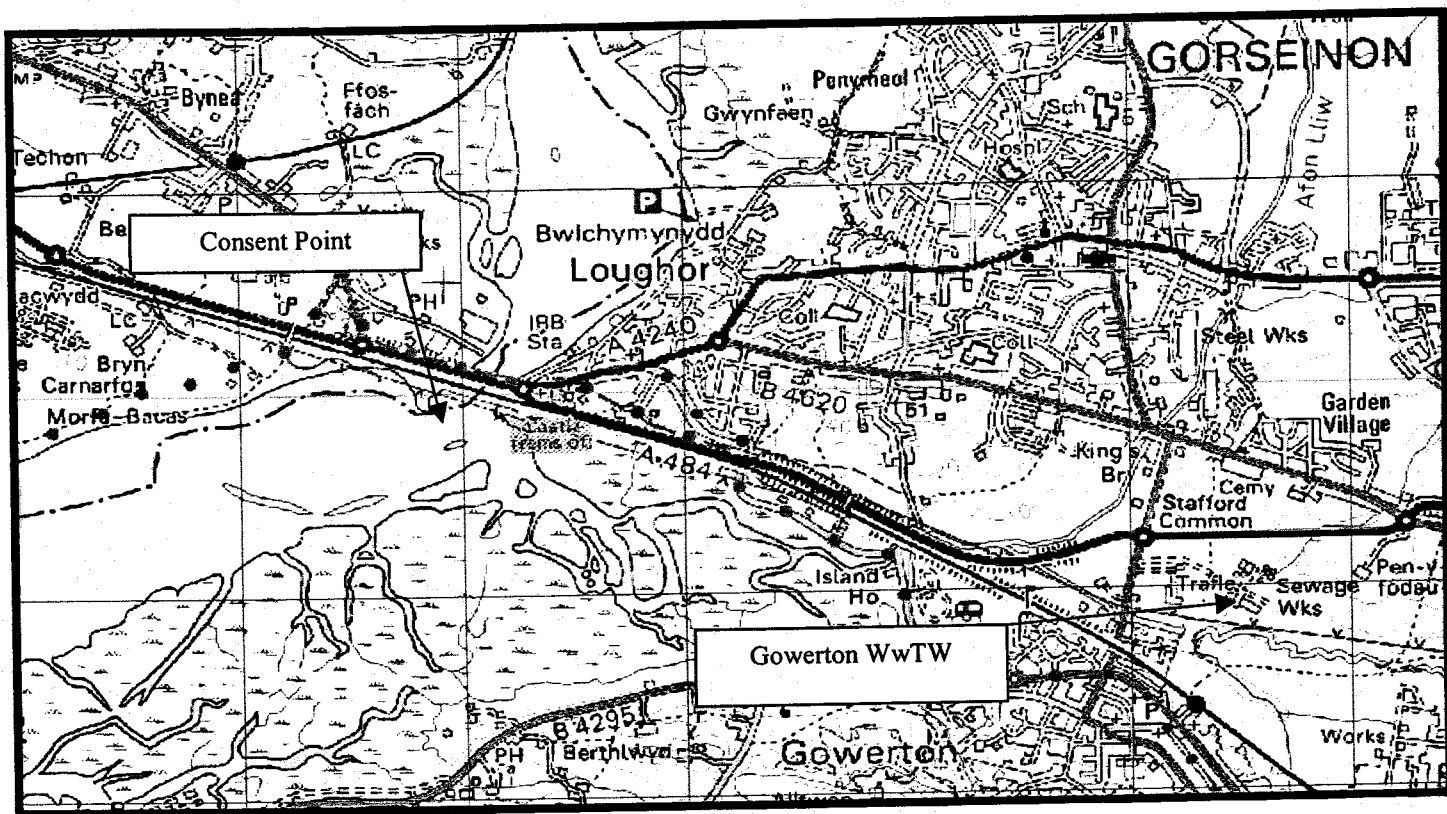
OTHER

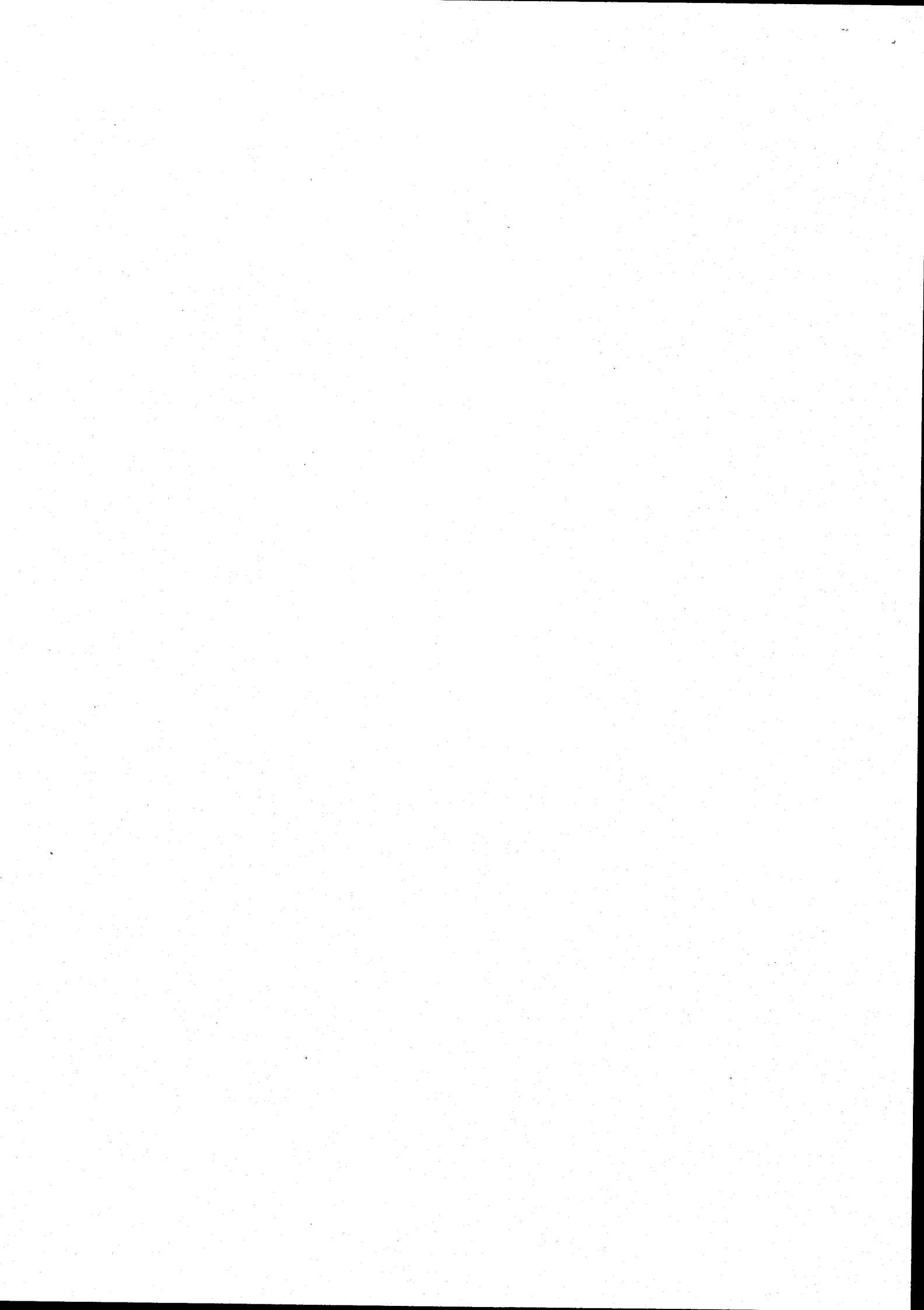
22. A tanker access facility at an appropriate location shall be provided and maintained to enable removal of sewage by tanker when necessary.





Annex 1: BW2304001
Gowerton WwTW Storm Tanks





Ein cyf/Our ref. LL/BW2304001
Eich cyf/Your ref. FEB6104,6112



ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Dyddiad/Date: 21 January 2005

Mrs Fiona Vogt
CEFAS Weymouth Laboratory
Fish Disease Laboratory
The Nothe
Barrack Road
Weymouth
Dorset
DT4 9UB

Dear Mrs Vogt

**WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995), APPLICATION FOR CONSENT TO DISCHARGE SEWAGE EFFLUENT BY DWR CYMRU FROM GOWERTON WWTW, GOWERTON, SWANSEA
APPLICATION NO: BW2304001**

Thank you for your comments on the above discharge consent application. The Environment Agency will take account of your comments in deciding whether or not consent should be granted and, if granted, what conditions should be imposed.

The Agency is required by law to determine the application within four months, unless an extension to that period is agreed with the applicant. When we have determined the application and issued or refused the consent we will write to you again to inform you of the decision.

Schedule 10, 5(1) of the Water Resources Act gives the National Assembly for Wales powers to call in consent applications for their determination as a result of requests. If you wish to request them to call in the application you should write to the National Assembly for Wales at Cathays Park, Cardiff CF10 3NQ. The Agency is required to determine the application unless the National Assembly calls in the application before the determination process is completed.

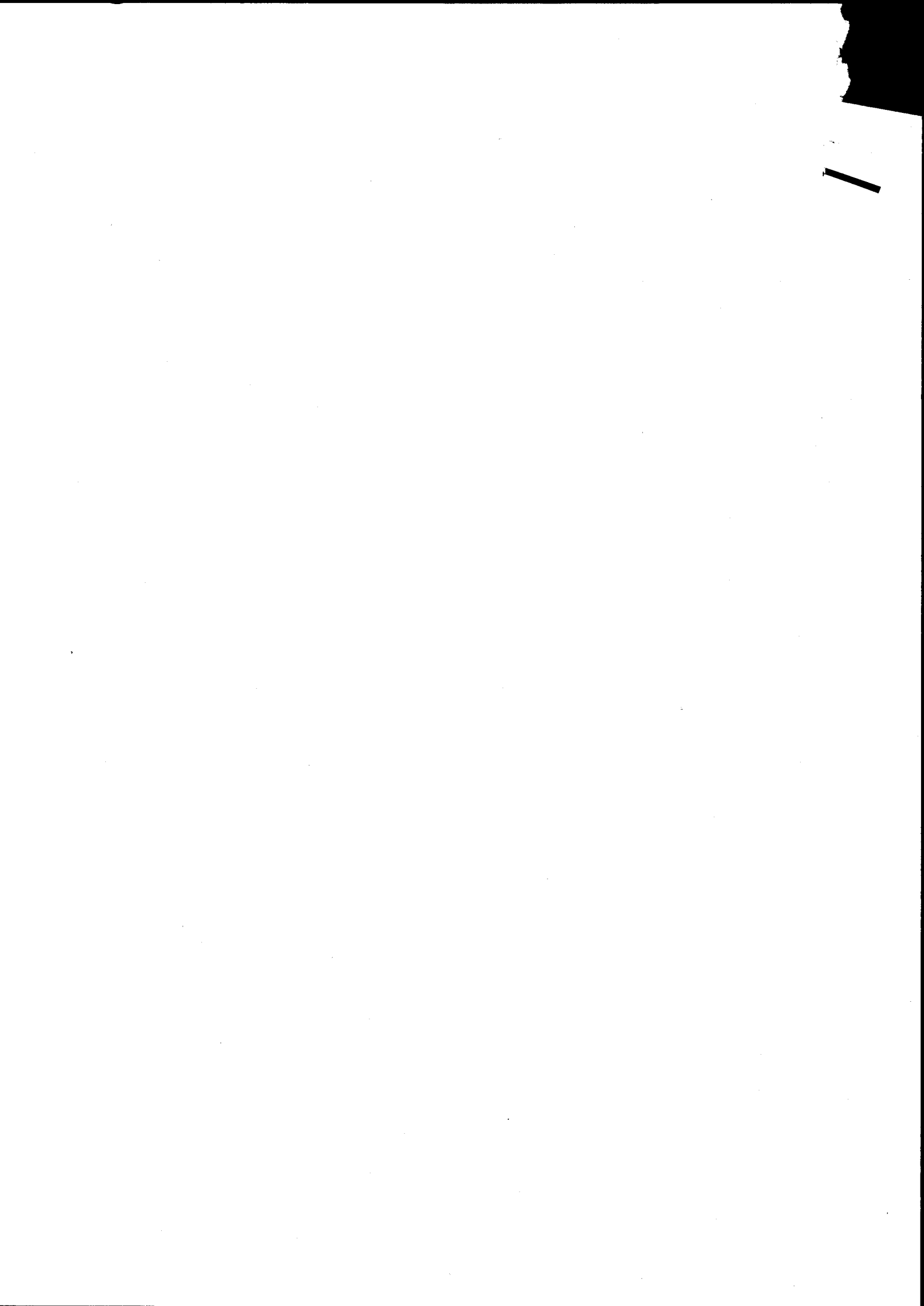
Yours sincerely

L LEWIS
Authorisations Officer

Asiantaeth yr Amgylchedd Cymru
Maes Newydd, Llandarsi, Nedd Port Talbot, SA10 6JQ
Ffon: 08708 506 506, Ffacs: 01792 325511

Environment Agency Wales
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Tel: 08708 506 506, Fax: 01792 325511







The Centre for Environment, Fisheries & Aquaculture Science
Weymouth Laboratory, Barrack Road, The Nothe,
Weymouth, Dorset DT4 8UB UK
Tel: +44 (0) 1305 206600 Direct: +44 (0) 1305 20
Fax: +44 (0) 1305 206601 Email:
<http://www.cefas.co.uk>

Lyn Lewis
Environment Agency Wales
Maes Newydd
Llandarcy
Neath Port Talbot,
Wales
SA10 6JQ

18th January 2005
FEB6104, 6112

Dear Lyn,

WATER RESOURCES ACT 1991, SCHEDULE 10, (AS AMENDED BY THE ENVIRONMENT ACT 1995) : Application for consent to discharge from Gowerton WwTW

Application no: BC0003001 and BW2304001

Thank-you for your letter of 13th December 2004, enclosing copies of the above applications for comment.

We welcome the improvement to UV disinfection at this WwTW. In terms of this continuous UV disinfection, we ask that CEFAS be provided with quarterly efficacy monitoring data, and annual summary continuous monitoring compliance data. Also, in the event of UV malfunction, such that the treatment level is compromised, we ask that the Local Food Authority be informed as a matter of urgency.

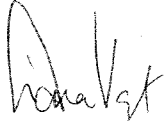
With regards the storm discharge from Gowerton WwTW, we advise that CEFAS anticipates that there is a maximum of 10 storm spills per annum agglomerated with other intermittent discharges impacting on the shellfish production area in Burry Inlet. We ask that annual storm spill summaries be provided to the Local Food Authority and EA.

If there will be any requirements for construction below mean high water spring tide or sea disposal of dredged material associated with the project, this will need to be licensed by DEFRA under the Food and Environment Protection Act 1985. Licence application forms can be obtained from Marine and Land Liability Division - Marine Consents & Environment Unit (MCEU), Eastbury House (Room 309), 30-34 Albert Embankment, London, SE1 7TL Tel 020 7238 6639 or 2081, Fax 020 7238 1258. Alternatively information on licence requirements and applications can be found on the MCEU web site, address <http://www.mceu.gov.uk/>

Once the consents/modifications are issued I would be grateful if you could send me a copy (preferably electronic) for our records together with details of any previous consents that are revoked as a result.



Yours sincerely

A handwritten signature in black ink, appearing to read 'Fiona Vogt', written in a cursive style.

Mrs Fiona Vogt
Water Quality Scientist

creu lle gwell
creating a better place



Asiantaeth yr
Amgylchedd Cymru
Environment
Agency Wales

Ein cyf/Our ref. EA/LK/BC0003001/BW2304001
Eich cyf/Your ref.

Dyddiad/Date: 20 April 2005

Environment Quality Scientist
Dŵr Cymru Cyf
Pentwyn Road
Nelson
Treharris
CF46 6LY

Dear Sir/Madam

**WATER RESOURCES ACT 1991, SCHEDULE 10 (As amended by the Environment Act 1995)
APPLICATIONS FOR CONSENTS TO DISCHARGE SEWAGE EFFLUENT BY DWR
CYMRU/WELSH WATER FROM GOWERTON WWTW, VICTORIA ROAD, GOWERTON,
SWANSEA
APPLICATION NO: BC0003001 & BW2304001**

Further to your applications the Agency has decided that these consents should be given subject to conditions. I enclose the Agency's formal consents to discharge sewage effluent from Gowerton WWTW, Victoria Road, Gowerton, Swansea.

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.

Continued...

Asiantaeth yr Amgylchedd Cymru
Maes Newydd, Llandarsi, Nedd Port Talbot, SA10 6JQ
Ffon: 08708 506 506, Ffacs: 01792 325511

Environment Agency Wales
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Tel: 08708 506 506, Fax: 01792 325511



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.

If you have any queries regarding the enforcement of this consent, please do not hesitate to contact Stuart Thomas, Team Leader Regulatory Water Quality, Environment Agency Wales, Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ.

Yours faithfully



LISA KNIGHT
Authorisations Officer

Direct dial 01792 325577

Direct fax 01792 325530

Enc.

Asiantaeth yr Amgylchedd Cymru
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Ffon: 08708 506 506, Ffacs: 01792 325511

Environment Agency Wales
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Tel: 08708 506 506, Fax: 01792 325511



ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Eich cyf/Your ref. F.12
Ein cyf/Our ref. LL/BP0341501,BC0018601,BC0003001,BW2304001,BG0024501
Dyddiad/Date: 13 January 2004

Mr P J Coates
Director
South Wales Sea Fisheries Committee
Queens Buildings
Cambrian Place
Swansea
SA1 1TW

Dear Mr Coates,

WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995), APPLICATIONS FOR DISCHARGE CONSENT BY DWR CYMRU FROM LLANANT, GOWERTON & ST CLEARS WWTW APPLICATION NOS BP0341501, BC0018601, BC0003001, BW2304001, BG0024501

Thank you for your representation on the above discharge consent applications. The Environment Agency will take account of your comments in deciding whether or not consent should be granted and, if granted, what conditions should be imposed.

The Agency is required by law to determine the applications within four months, unless an extension to that period is agreed with the applicant. When we have determined the applications and issued or refused the consents we will write to you again to inform you of the decision.

Schedule 10, 5(1) of the Water Resources Act gives the National Assembly for Wales powers to call in consent applications for their determination as a result of requests. If you wish to request them to call in the applications you should write to the National Assembly for Wales at Cathays Park, Cardiff CF10 3NQ. The Agency is required to determine the applications unless the National Assembly calls in the application before the determination process is completed.

Yours sincerely,

L LEWIS
Authorisations Officer

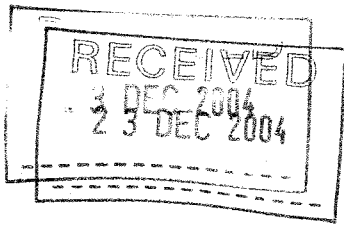
Please ask for Lynne Lewis, ext. 5578

Asiantaeth yr Amgylchedd Cymru
Maes Newydd, Llandarsi, Nedd Port Talbot, SA10 6JQ
Ffon: 08708 506 506, Ffacs: 01792 325511

Environment Agency Wales
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Tel: 08708 506 506, Fax: 01792 325511







Llywodraeth Cynulliad Cymru
Welsh Assembly Government

Adran yr Amgylchedd, Cynllunio a Chefn Gwlad
Department for Environment, Planning and Countryside

Lynne Lewis
Authorisations Officer
Environment Agency Wales
Maes Newydd
Llandarcy
Neath/Port Talbot
SA10 6QJ

Eich cyf. Your ref LL/BW2304001
Ein cyf. Our ref A-EE911-14-001
Date 21 December 2004

Dear Ms Lewis

**WATER RESOURCES ACT 1991, SCHEDULE 10 (As amended by the Environment Act 1995)
FORMAL CONSULTATION. APPLICATION FOR VARIATION OF CONSENT TO DISCHARGE
SEWAGE EFFLUENT BY DWR CYMRU CYF FROM GOWERTON WWTW
APPLICATION NO: BW2304001**

Thank you for your letter of 14 December enclosing a copy of the application for variation of consent to discharge sewage effluent by Dwr Cymru from Gowerton WWTW.

The Welsh Assembly Government acknowledges receipt of this and its contents have been noted.

If you have any queries please contact me.

Yours sincerely

Ron Hicks
Environment Division



BUDDSODDWR MEWN POBL
INVESTOR IN PEOPLE

Parc Cathays
Caerdydd
CF10 3NQ

Cathays Park
Cardiff
CF10 3NQ

Ffôn • Tel: 02920823228
GTN: 12083228

Ffacs • Fax: 02920825008

Ebost • Email: ron.hicks@wales.gsi.gov.uk



Ein cyf/Our ref. LL/BW2304001

Eich cyf/Your ref.

Dyddiad/Date: 13 December 2004



ASiantaeth Yr
Amgylchedd Cymru
ENVIRONMENT
AGENCY WALES

Dr Lewis Keil
Dwr Cymru Cyf
Gowerton Waste Water Treatment Works
Victoria Road
Gowerton
Swansea
SA4 3AB

Dear Dr Keil

**WATER RESOURCES ACT 1991, SCHEDULE 10 (As amended by the Environment Act 1995)
APPLICATION TO DISCHARGE SEWAGE EFFLUENT BY DWR CYMRU FROM
GOWERTON WWTW
APPLICATION NO: BW2304001**

I acknowledge receipt of your completed application received on 30 November 2004 together with your application fee of £743. Please quote the above application number in any communication with us.

The legislation allows us 4 months from the date of receipt to determine your application. However, an extension to the 4-month period may be necessary if we require further information to determine your application or if agreed between us in writing. You will be advised if this proves necessary.

We will do all we can to deal with your application quickly, but if by **31 March 2005** (or such longer period as explained above), you have not been advised of our decision then the application will be deemed to be refused. You will have a right of appeal to the National Assembly for Wales.

If granted, the consent of the Agency to make a discharge covers water quality considerations only. Should you require any advice on other consents, permissions, licences etc regulated by the Agency, please do not hesitate to contact me.

Details of your application for consent are placed on a public register, kept by the Agency and open for inspection by the public.

Yours sincerely

L LEWIS
Authorisations Officer

Asiantaeth yr Amgylchedd Cymru
Maes Newydd, Llandarsi, Nedd Port Talbot, SA10 6JQ
Ffon: 08708 506 506, Ffacs: 01792 325511

Environment Agency Wales
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Tel: 08708 506 506, Fax: 01792 325511







ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Ein cyf/Our ref. LL/BW2304001
Eich cyf/Your ref.

Dyddiad/Date: 13 December 2004

Simon Kershaw
CEFAS Weymouth Laboratory
Fish Disease Laboratory
The Nothe
Barrack Road
Weymouth
Dorset
DT4 9UB

Dear Mr Kershaw

**WATER RESOURCES ACT 1991, SCHEDULE 10 AS AMENDED BY THE
ENVIRONMENT ACT 1995) APPLICATION TO DISCHARGE SEWAGE
EFFLUENT BY DWR CYMRU FROM GOWERTON WWTW
APPLICATION NO: BW2304001**

I enclose, pursuant to Schedule 10 of the Water Resources Act 1991, a copy of the above mentioned application for discharge consent.

Any comments you wish to make regarding this application must be received by the Agency within six weeks from the date of this letter.

Yours sincerely

L LEWIS
Authorisations Officer

Asiantaeth yr Amgylchedd Cymru
Maes Newydd, Llandarsi, Nedd Port Talbot, SA10 6JQ
Ffon: 08708 506 506, Ffacs: 01792 325511

Environment Agency Wales
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Tel: 08708 506 506, Fax: 01792 325511







ASiantaeth Yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Ein cyf/Our ref. LL/BW2304001
Eich cyf/Your ref.

Dyddiad/Date: 13 December 2004

Mr P J Coates
Director
South Wales Sea Fisheries Committee
Queens Buildings
Cambrian Place
Swansea
SA1 1TW

Dear Mr Coates,

WATER RESOURCES ACT 1991, SCHEDULE 10 AS AMENDED BY THE ENVIRONMENT ACT 1995) APPLICATION TO VARY CONSENT TO DISCHARGE SEWAGE EFFLUENT BY DWR CYMRU FROM GOWERTON WWTW APPLICATION NO: BW2304001

I enclose, pursuant to Schedule 10 of the Water Resources Act 1991, a copy of the above mentioned application for discharge consent.

Any comments you wish to make regarding this application must be received by the Agency within six weeks from the date of this letter.

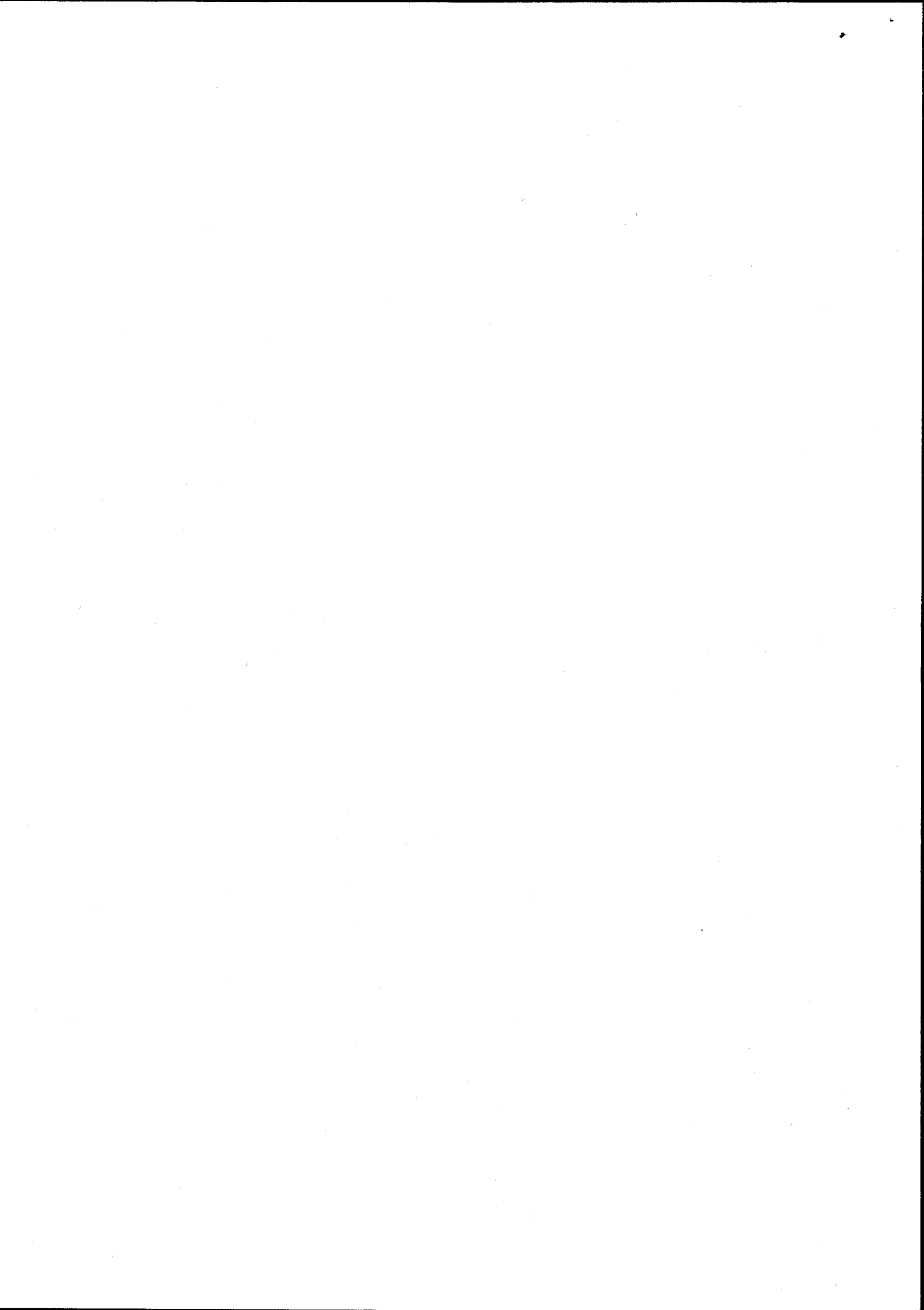
Yours sincerely

L LEWIS
Authorisations Officer

Asiantaeth yr Amgylchedd Cymru
Maes Newydd, Llandarsi, Nedd Port Talbot, SA10 6JQ
Ffon: 08708 506 506, Ffacs: 01792 325511

Environment Agency Wales
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Tel: 08708 506 506, Fax: 01792 325511







ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Ein cyf/Our ref. LL/BW2304001
Eich cyf/Your ref.

Dyddiad/Date: 14 December 2004

Mr P M Bishop
National Assembly for Wales
Environment Division – Water Branch
Cathays Park
Cardiff
CF10 3NQ

Dear Mr Bishop

**WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995): FORMAL CONSULTATION. APPLICATION FOR VARIATION OF CONSENT TO DISCHARGE SEWAGE EFFLUENT BY DWR CYMRU FROM GOWERTON WWTW.
APPLICATION NO: BW2304001**

I enclose, pursuant to Schedule 10 of the Water Resources Act 1991, a copy of the above mentioned application for discharge consent.

Any comments you wish to make regarding this application must be received by the Agency within six weeks from the date of this letter.

Yours sincerely

L LEWIS
Authorisations Officer

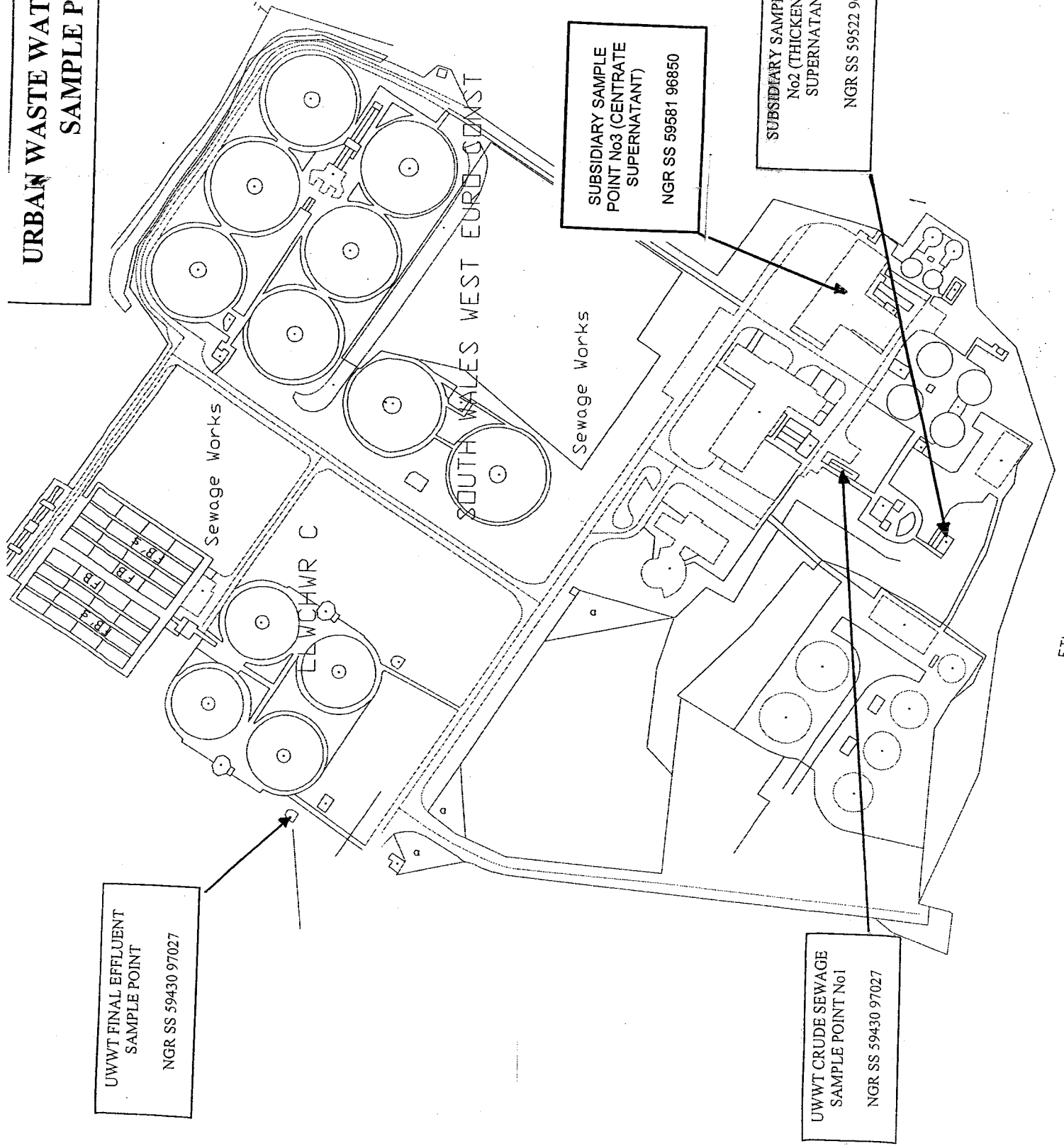
Asiantaeth yr Amgylchedd Cymru
Maes Newydd, Llandarsi, Nedd Port Talbot, SA10 6JQ
Ffon: 08708 506 506, Ffacs: 01792 325511

Environment Agency Wales
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ
Tel: 08708 506 506, Fax: 01792 325511





**URBAN WASTE WATER TREATMENT
SAMPLE POINTS**



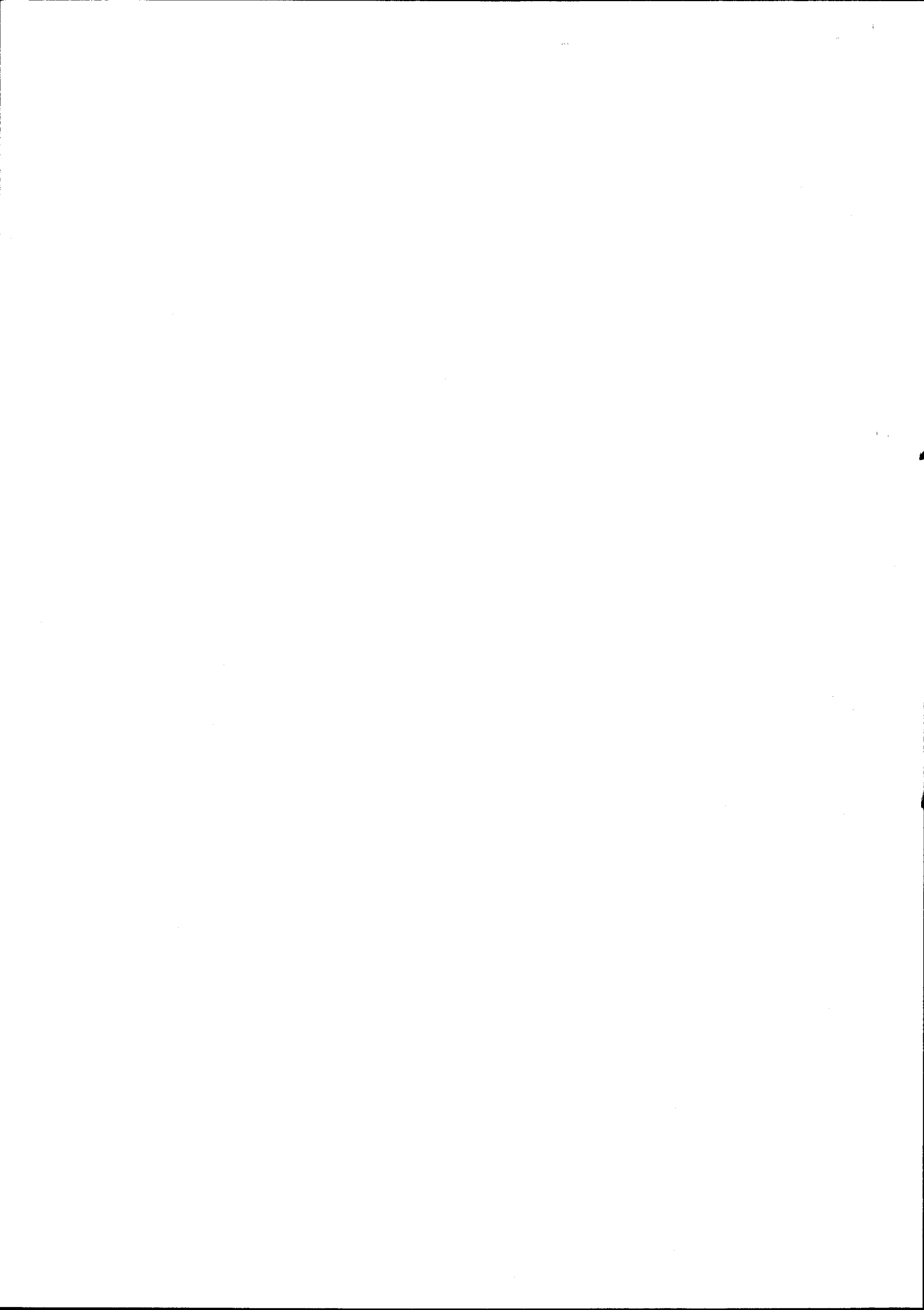
UWWT FINAL EFFLUENT
SAMPLE POINT
NGR SS 59430 97027

SUBSIDIARY SAMPLE
POINT No3 (CENTRATE
SUPERNATANT)
NGR SS 59581 96850

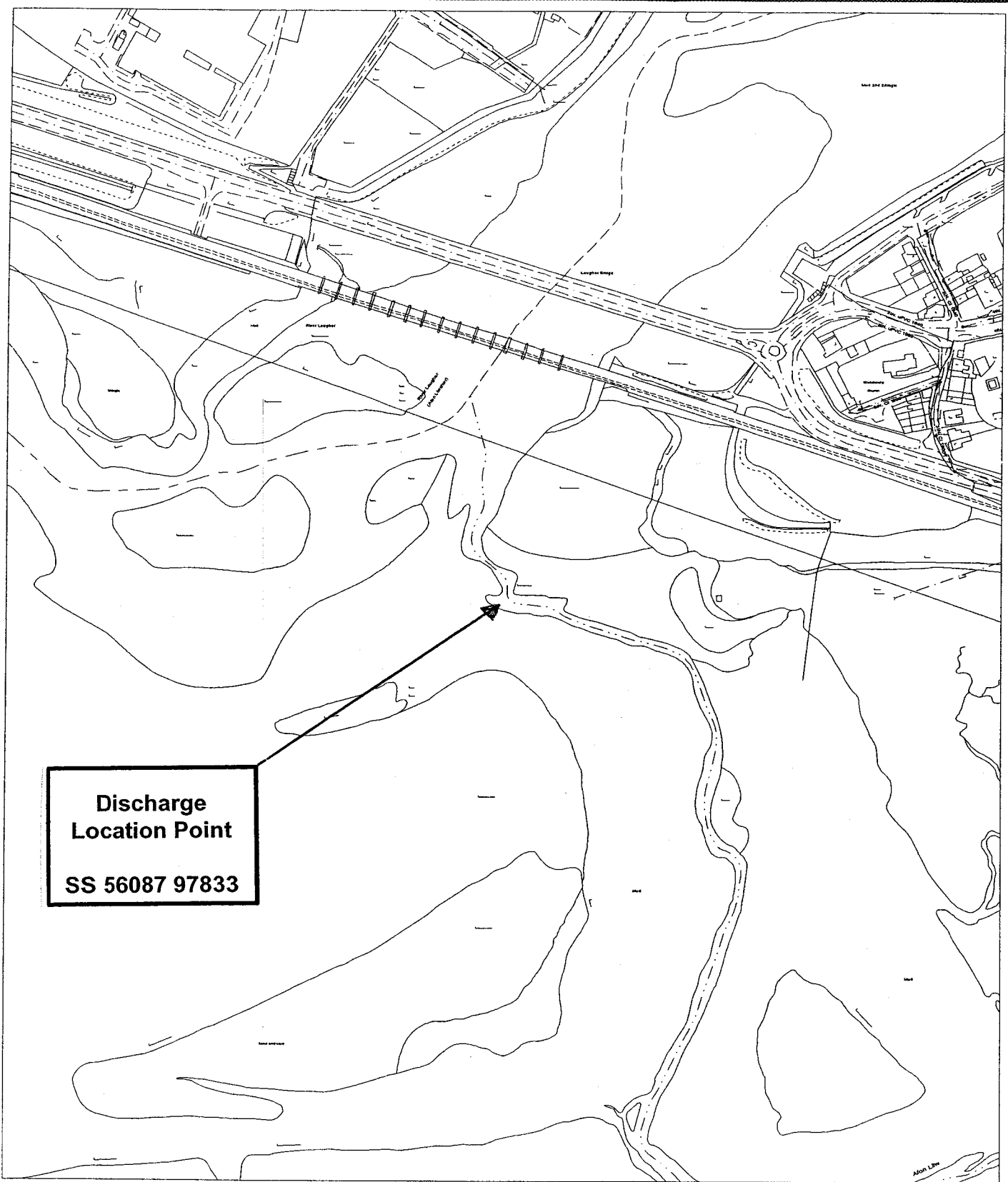
SUBSIDIARY SAMPLE POINT
No2 (THICKENER
SUPERNATANT)
NGR SS 59522 96820

UWWT CRUDE SEWAGE
SAMPLE POINT No1
NGR SS 59430 97027

ETL







Title: *GOWERTON WWTW*

Comments :

STAM
Solutions for Total Asset Management



Reproduced from the Ordnance Survey map with the permission of the controller of Her Majesty's Stationery Office.

Scale : 1:3690
Date & Time : 10:10 11/10/2004
OS Tile Name : SS5697NW



UV Disinfection - Spreadsheet for the Calculation of the UV Dose for Faecal Coliforms

Input data in the yellow boxes can be changed by user. Critical Output is highlighted in blue
 No constants or coefficients should be changed without reference to *Surfacewater Process, Environment Agency*

Site: Gowerton

Input

Effluent Characteristics		Comments
Faecal Coliform Conc. (No/100 ml) in the influent	20000000	Geomean influent conc. (default 20,000,000)
Suspended Solids conc. (mg/l)	60	Consent 95%ile
UV Lamps		
UV Intensity (mW/cm ²)	5.00	Default value 5 mW/cm ²
Compute Log Reductions Required		
	Faecal Coliforms	Enteroviruses
Total Required Reduction	5.25	2.00
Reduction achievable through Primary + Secondary treatment	2.00	1.50
Initial Dilution or Secondary Dispersion/Mixing	1.36	0.00
	See table below for default reductions, or use site-specific values.	
	Use minimum values. Use the greater of Initial Dilution and Secondary Dispersion	
Total	3.36	1.50
Required by UV	1.89	1.00

Default values for log reductions through conventional treatment		
	Faecal Coliforms	Enteroviruses
Primary + Activated Sludge	2.00	1.50
Primary + Oxidation Ditch	2.00	1.50
Primary + BAFF	1.50	1.00
Percolating Filter	1.50	0.30

Output - Dose Computation

Required UV Doses for indicators and Targets		
	Faecal Coliforms	Enteroviruses
Received Dose (mWs/cm ²)	26.51	30.47
Critical Dose (mWs/cm ²)	30.47	
Contact Time (s)	6.09	
Log reductions achieved by critical dose (mWs/cm ²)		
Log-reduction achieved by critical dose	2.06	1.00
Maximum Achievable Reductions		
Maximum Log10 Reduction	2.35	2.05



DISINFECTION CHECKLIST

Site Name	Gowerton WwTW
-----------	---------------

1. Is the disinfection process designed specifically to reduce the numbers of viable, potentially infectious micro - organisms in the effluent? (Environment Agency policy requirement)	YES
2. Is secondary treatment proposed? (Environment Agency policy requirement)	YES – as present
3. Is it intended to use a low pressure or a medium pressure artificial UV source? Provide manufacturer's specification	Low pressure – See attached Manufacturers information sheet
4. Will the lamps be cleaned automatically or manually? Identify process	Automatically and in-situ, see attached Manufacturers information sheet.
5. Proposed minimum UV design dose rate.(mJoule/cm ²)	32
6. Proposed minimum UV intensity (mWatt/cm ²)	7.968 mW/cm ²
7. Number of UV Channels	1
8. How many lamp modules will the effluent have to pass (minimum/maximum)	16/32 (with a 50% standby of additional 16 modules)
9. Proposed number of lamps per module	8
10. Maximum flow rate per channel	612l/s
11. Reactor volume (per module)	1410 l/module
12. Will disinfection be undertaken outside the bathing season? Is this to protect uses or at the discharger's discretion	Yes – to comply with the Shellfish Directive
13. Will UV equipment failsafe (i.e. all duty lamps on rather than off) in the event of Control system failure?	YES
14. Will the works have a standby generator? Or dual power supply to enable disinfection even in the event of power failure?	Dual Power supply on Manual Changeover
15. Under what circumstances can non-disinfected effluent be discharged?	Only in the event of total UV system failure

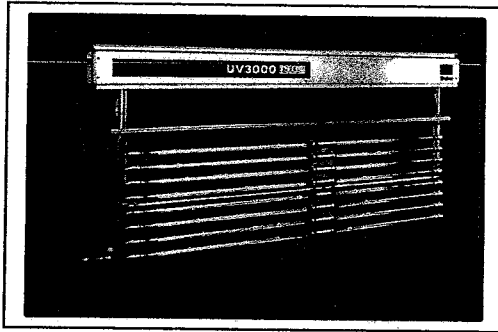


16. Will the UV transmissivity be better than 45% at all times? If predictions or measurements available, what is minimum?	YES
17. Will on-line transmissivity be used for dose control?	YES
18. Will the flow be continuously recorded at the inlet to each disinfection channel?	YES
19. Will the UV intensity be measured and recorded?	YES
20. Will dose be calculated and recorded?	YES
21. Will the site have telemetry to a 24hr manned site including UV information/status?	YES
22. Is data available from similar existing installations?	YES
23. Provide NGR and description of following sampling points: - Crude influent Pre-disinfection effluent Post-disinfection effluent	NGR SS 59541 96850 NGR SS 59409 97040 NGR SS 59402 97028
24. Reduction in numbers of E.coli due to UV, used for scheme design.	Please refer to the calculation sheet attached for the assumed reductions
25. Assumed reduction in numbers of E.coli due to other on-site processes	
26. Predicted reduction due to off-site processes (eg dilution & dispersion)	
27. Has the agreed generic "Operating and Maintenance Schedule" been modified for this works? (Date of agreement)	



Equipment Item Descriptions

1. UV Lamp Modules



The UV lamps are low-pressure high output amalgam technology and are individually housed in type 214 clear fused quartz sleeves. The sleeves are closed at one end and sealed at the other by a lamp end seal, which is removed for changing lamps. This minimises the electrical connections to each of the lamps and ensures that all maintenance is carried out at one end of the module.

The modules are grouped together to make a bank of lamps. The module frame is constructed from 316 stainless steel and the ballast housing from anodized aluminium (standard design). The module frame itself is streamlined which reduces the problems associated with ragging. There are three banks of lamps in a single channel capable of treating peak flow as well as providing 50% standby.

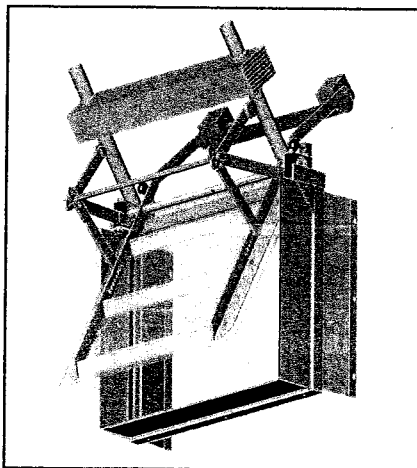
The UV lamp ballasts are housed in a sealed enclosure at the top of each UV module which optimizes the performance of the UV plant and eliminating the need for expensive forced air-cooling. At the same time the top of the UV modules provides you with a safe standing surface strong enough for up to two people, this also reduces the amount of flooring required to cover the UV channel.

Lamp output is modulated automatically in response to site conditions to minimise power consumption and optimise system performance.

Lamp life is guaranteed for 12000 hours, lamp change periods are likely to be every 24 to 32 months. This is due to the automatic control facility of the UV plant's PLC Controller. This will automatically turn down the output power of the lamps, and switch bank of lamps off when not required, due to reduction in flowrate or improvement in effluent quality.

One UV Intensity sensor is enclosed within a dedicated quartz sleeve in each bank of lamps. The lamp cleaning system automatically cleans the sensor as it cleans the lamps, this eliminates the requirement for manual cleaning of the UV Intensity sensor.

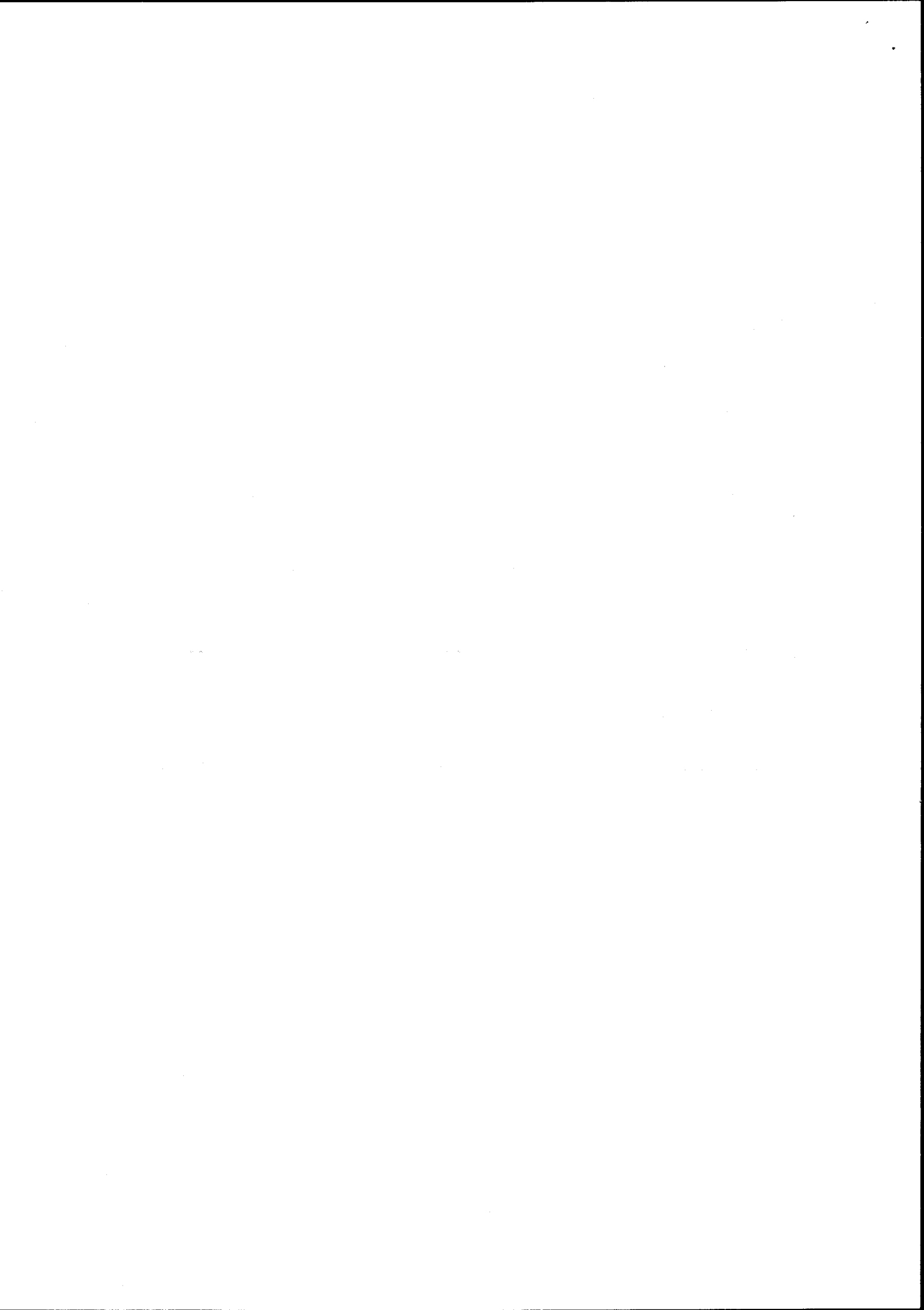
2. Downstream Level Control



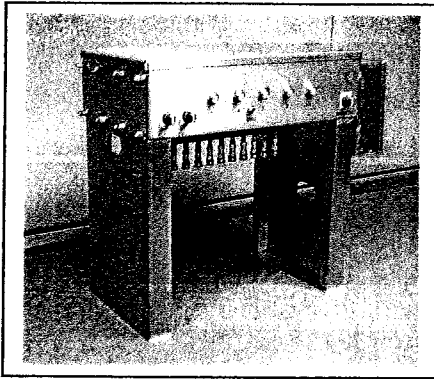
The water level over the top lamp must be controlled strictly controlled. If the top water level increases too greatly at higher flows then bypassing can occur resulting in low dose situations and potential performance failure. Good operation of this device is essential to the successful disinfection performance of the UV plant. We propose an ALC:

Automatic Level Controller

We previously found limitations with the gearbox when using modulating penstocks and consequently developed the ALC for optimum level control. It works principally on hydrostatic pressure and does not consume any electricity



3. Power Distribution Centre (PDC)



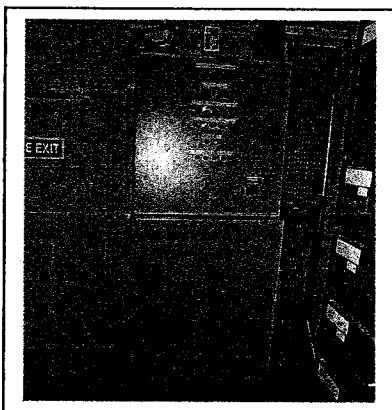
Each bank of lamps has its own PDC, which is mounted across the channel. It houses power distribution bus bars which supply power to each UV module. Each UV module plugs into its designated socket on the side of the PDC.

The PDC also provides a communication link between the UV modules and the system controller so that lamp, ballast and UV intensity status are transmitted to the System Control Panel and appropriate ballast power settings are controlled based on current flow and UV transmittance.

The hydraulic manifold, which distributes hydraulic fluid to each UV module to operate the automatic cleaning system, is underneath the PDC

The PDCs will be constructed from 304 stainless steel.

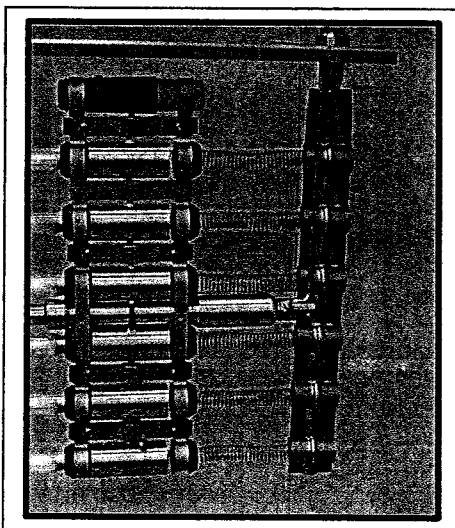
4. Hydraulic System Centre (HSC)



The HSC will be located adjacent to the UV plant, housed in a painted mild steel enclosure. It shall contain a hydraulic pump and reservoir tank sized to drive the wipers on the Automatic Cleaning System (ACS) for the number of banks in the UV system. There are no immersed limit switches requiring maintenance or routine checks.

The hydraulic fluid drives an internal piston on each UV module and all the wipers in one bank of lamps extend simultaneously, before retracting back to the 'wiper park'. This wipe sequence is usually only required once or twice a day depending upon the quality of the effluent.

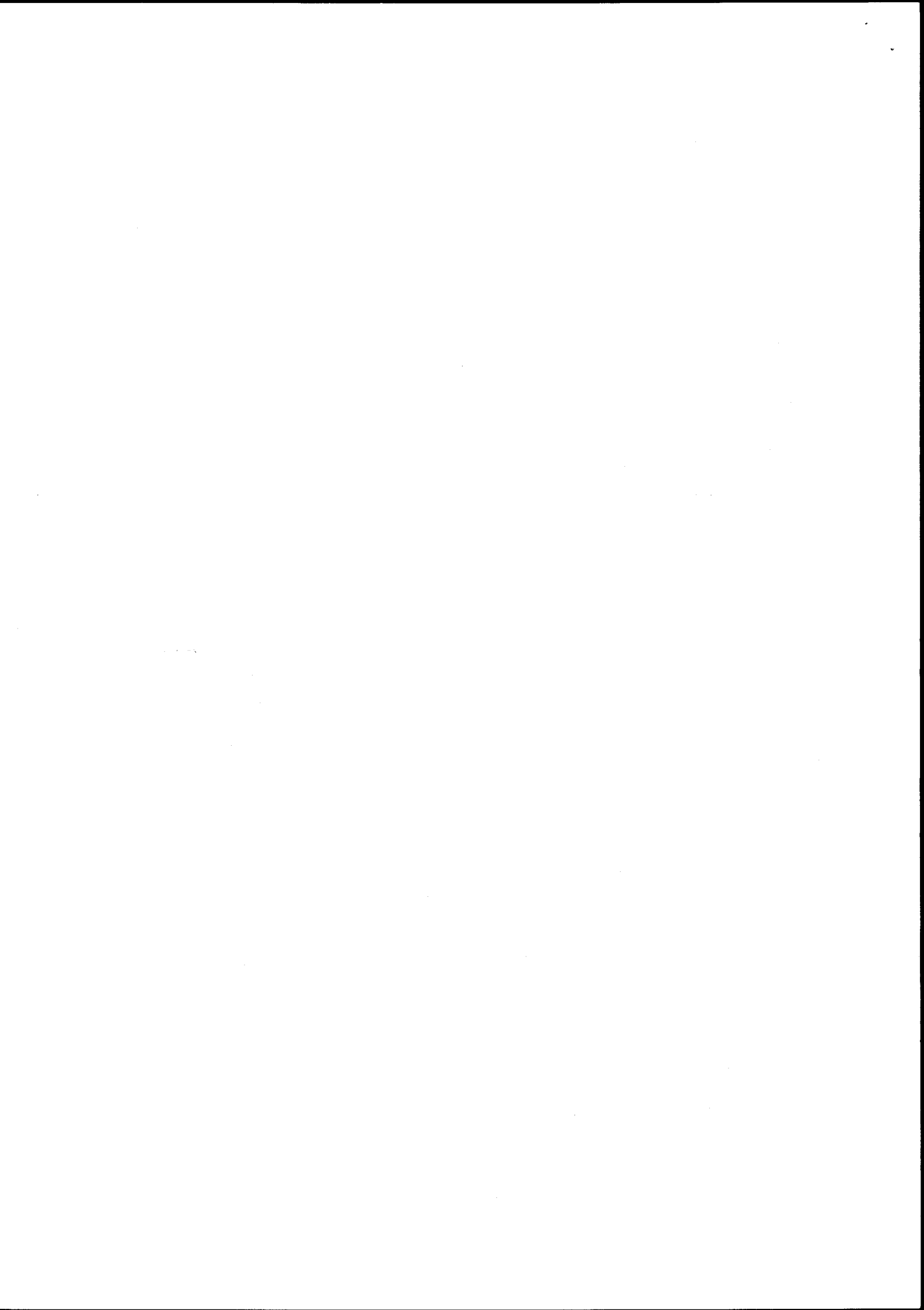
5. Automatic Cleaning System (ACS)



Lamp cleaning is carried out *automatically* and *in-situ* with Trojan's advanced cleaning technology.

Tests have shown that, even for good quality secondary effluents, mechanical *and* chemical cleaning is required periodically. Earlier UV technologies meant the lamps had to be removed from the channel for cleaning either by hand or by immersion in a special constructed cleaning bath.

Fouling of the quartz sleeves that protect the UV lamp results in increased electrical consumption and can reduce disinfection rates. The Trojan automatic cleaning system with its chemical cleaning solution is designed to remove organic and inorganic deposits and prevents any fats from smearing along the surface of the quartz sleeve eliminating the need to remove the modules for cleaning manually or with a cleaning bath.

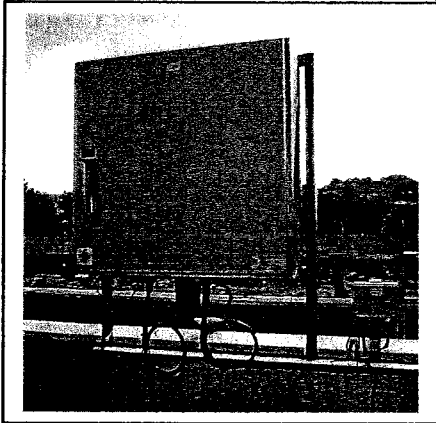


Trojan's automatic cleaning system eliminates this maintenance requirement by incorporating a food-grade cleaning gel within the wiper head itself – so that chemical cleaning is automatic too.

The Trojan solution known as ActiClean™ has superior cleaning efficacy, lubrication (for wiper seal life enhancement), user friendliness (being non-corrosive and non-toxic), and is environmentally friendly (biodegradable).

Replenishment is usually only required when the lamps are changed. This is carried out as part of the Trojan lamp replacement procedure.

6. UV Transmission Analyser

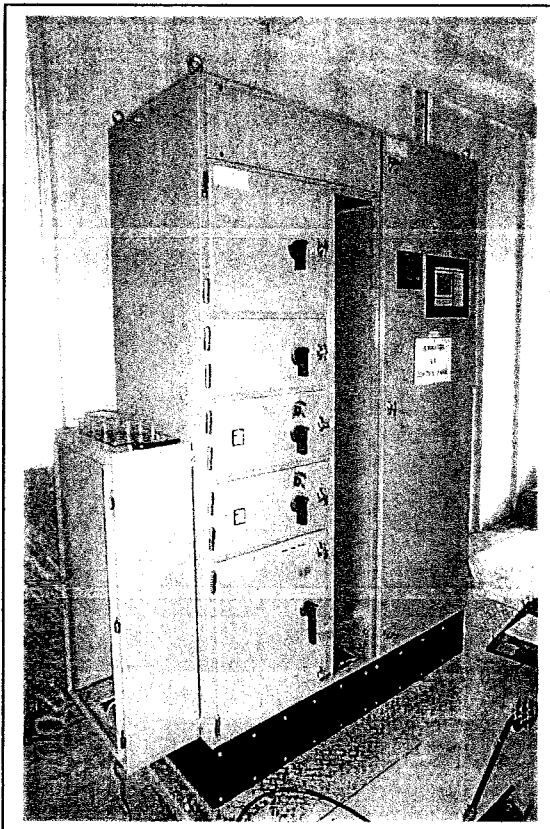


The Trojan 'UVT-2537A' On-line UV Transmission Analyser enables automatic modulation of the lamp output required based on variations in effluent quality resulting in reduced power consumption when effluent UV transmission rises above the 45% design UVT.

The monitor provides a 4-20 mA signal back to the controller supplying UV transmission data. The continuous monitor is micro-processor based and features an auto calibration cycle that reduces the effect of system fouling.

The cabinet will be 304 stainless steel construction (proprietary design).

7. System Control Panel (SCP)



The UV plant System Control Panel will comprise a form 4, type 3 compartmented enclosure with front access and bottom cable entry. No forced air-cooling is needed.

The SCP will be made up with the following compartments:

Mains Incomer

The 415V mains power supply for the UV disinfection plant is terminated within this section. The power supply is monitored via a phase monitor and is displayed on the HMI.

Bank Feeders (x3)

The 415Vac main power supply for the PDC across each bank is isolated from this section via a door interlocked fused isolator. The isolator has a Fortress interlock mechanism, which is also on the interlocking guard over the bank of lamps. This is to prevent the UV modules from being removed whilst still powered up. There is a non-resettable hours run meter mounted on the door to monitor the runtime of the UV bank.





DŵR CYMRU
WELSH WATER

Trade Effluent Licence: sw370

Owner's Name:	Alcoa Manufacturing GB Ltd	Trader's Name:	Alcoa Manufacturing GB Ltd
Owner's Address:	Waunarlwydd Works P O Box 68 Swansea West Glamorgan SA1 1XH	Trader's Address:	Waunarlwydd Works (Tower 818B) PO Box 68 Swansea West Glamorgan SA1 1XH
SPT:	74688	Contact Name:	
Responsible Officer:		Grid Reference:	
SIC Name:	Aluminium extrusion and anodising	Consent Granted:	28 February 2001
Name of Division:	South West	Current Var/Dir:	
Name of STW:	GOWERTON	Consent Closed:	
Hydro. Ref. Point:	0	Consent Revoked:	
		Hydro. Distance:	0

**Discharge
Description:**

Consent Comments:

Chemical:	Amount:	Units:
Sulphide - Total (Det Code 167)	2	mg/Litre
Lead (Det Code 328)	2	mg/Litre
Zinc (Det Code 245)	2	mg/Litre
Nickel (Det Code 429)	2	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Chromium (Det Code 375)	2	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
50	m3/Day	7	m3/Hr			6	10



DŴR CYMRU
WELSH WATER

Trade Effluent Licence: sw82

Owner's Name:	Alcoa Manufacturing GB Ltd	Trader's Name:	Alco Manufacturing GB Ltd
Owner's Address:	Wauharlwydd Works, PO Box 68, Swansea West Glamorgan SA1 1XH	Trader's Address:	Wauharlwydd Works, PO Box 68 Swansea West Glamorgan SA1 1XH
SPT:	74562	Contact Name:	
Responsible Officer:		Grid Reference:	
SIC Name:	Aluminium extrusion and anodising	Consent Granted:	22 April 1971
Name of Division:	South West	Current Var/Dir:	06 May 2001
Name of STW:	GOWERTON	Consent Closed:	
Hydro. Ref. Point:	0	Consent Revoked:	
		Hydro. Distance:	0

**Discharge
Description:**

Consent Comments:

Chemical:	Amount:	Units:
Ammonia (Det Code 111)	150	mg/Litre
Sulphide - Total (Det Code 167)	2	mg/Litre
Lead (Det Code 328)	2	mg/Litre
Zinc (Det Code 245)	2	mg/Litre
Nickel (Det Code 429)	2	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Chromium (Det Code 375)	2	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphate (Det Code 183)	2000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
600	m3/Day	40	m3/Hr			6	10



DŵR CYMRU
WELSH WATER

Trade Effluent Licence: sw369

Owner's Name:	Alcoa Manufacturing GB Ltd	Trader's Name:	Alcoa Manufacturing GB Ltd
Owner's Address:	Waunarlwydd Works P O Box 68 Swansea West Glamorgan SA1 1XH	Trader's Address:	Waunarlwydd Works (Tower 814G) PO Box 68 Swansea West Glamorgan SA1 1XH
SPT:	74689	Contact Name:	
Responsible Officer:		Grid Reference:	
SIC Name:	Aluminium extrusion and anodising	Consent Granted:	28 February 2001
Name of Division:	South West	Current Var/Dir:	
Name of STW:	GOWERTON	Consent Closed:	
Hydro. Ref. Point:	0	Consent Revoked:	
		Hydro. Distance:	0

**Discharge
Description:**

Consent Comments:

Chemical:	Amount:	Units:
Sulphide - Total (Det Code 167)	5	mg/Litre
Lead (Det Code 328)	2	mg/Litre
Zinc (Det Code 245)	2	mg/Litre
Nickel (Det Code 429)	2	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Chromium (Det Code 375)	2	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
20	m3/Day	3.5	m3/Hr			6	10



DŴR CYMRU
WELSH WATER

Trade Effluent Licence: sw368

Owner's Name:	Alcoa Manufacturing GB Ltd	Trader's Name:	Alcoa Manufacturing GB Ltd
Owner's Address:	Waunartwydd Works P O Box 68 Swansea West Glamorgan SA1 1XH	Trader's Address:	Waunartwydd Works PO Box 68 Swansea West Glamorgan SA1 1XH
SPT:	74787	Contact Name:	
Responsible Officer:		Grid Reference:	
SIC Name:	Aluminium extrusion and anodising	Consent Granted:	28 February 2001
Name of Division:	South West	Current Var/Dir:	
Name of STW:	GOWERTON	Consent Closed:	
Hydro. Ref. Point:	0	Consent Revoked:	
Discharge Description:		Hydro. Distance:	0
Consent Comments:			

Chemical:	Amount:	Units:
Sulphide - Total (Det Code 167)	5	mg/Litre
Lead (Det Code 328)	2	mg/Litre
Zinc (Det Code 245)	2	mg/Litre
Nickel (Det Code 429)	2	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Chromium (Det Code 375)	2	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
50	m3/Day	15	m3/Hr			6	10



DWR CYMRU
WELSH WATER

Trade Effluent Licence: SW336

Owner's Name:	Dewhirst Ladies Wear Ltd	Trader's Name:	Dewhirst Ladies Wear Ltd
Owner's Address:	Kingsway, Fforestfach Swansea West Glamorgan	Trader's Address:	Kingsway, Fforestfach Swansea West Glamorgan
SPT:	74813	Contact Name:	
Responsible Officer:		Grid Reference:	
SIC Name:	LAUNDRY	Consent Granted:	11 November 1998
Name of Division:	South West	Current Var/Dir:	
Name of STW:	GOWERTON	Consent Closed:	
Hydro. Ref. Point:	0	Consent Revoked:	
		Hydro. Distance:	0

**Discharge
Description:**

Consent Comments:

Chemical:	Amount:	Units:
Formaldehyde (Det Code 9325)	10	mg/Litre
Hydrogen Peroxide	50	mg/Litre
Free Chlorine (Det Code)	5	mg/Litre
Anionic Surfactants	100	mg/Litre
Ammonia (Det Code 111)	100	mg/Litre
COD Total (Det Code 92)	1000	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	400	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
400	m3/Day	4.8	Litre/sec			6	10



DŴR CYMRU
WELSH WATER

Trade Effluent Licence: sw405

Owner's Name: First Cymru
Owner's Address: Heol Gwysiosydd
Penlan
Swansea
West Glamorgan
SA5 7BN

Trader's Name: First Cymru
Trader's Address: Ravenhill Depot
Ravenhill, Forestfach
Swansea
West Glamorgan

SPT: 74572

Responsible Officer:

SIC Name: Motor Industry

Name of Division: South West

Name of STW: GOWERTON

Hydro. Ref. Point: 0

Contact Name:

Grid Reference:

Consent Granted: 28 November 1978

Current Var/Dir: 26 March 1981

Consent Closed:

Consent Revoked:

Hydro. Distance: 0

Discharge Description:

Consent Comments:

Chemical:	Amount:	Units:
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
183	m3/Day	10	m3/Hr			6	10



DŵR CYMRU
WELSH WATER

Trade Effluent Licence: sw205

Owner's Name: Modtan
Owner's Address: 95 High Street, Gorseinon
Swansea
West Glamorgan

Trader's Name: Gorseinon Laundry Services
Trader's Address: R/O Cecil Road, Gorseinon
Swansea
West Glamorgan

SPT: 74672

Responsible Officer:

SIC Name: LAUNDRY

Name of Division: South West

Name of STW: GOWERTON

Hydro. Ref. Point: 0

Contact Name:

Grid Reference:

Consent Granted: 12 March 1990

Current Var/Dir:

Consent Closed:

Consent Revoked:

Hydro. Distance: 0

**Discharge
Description:**

Consent Comments:

Chemical:	Amount:	Units:
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
91	m3/Day	9.1	m3/Hr			6	10

Trade Effluent Licence: sw348



DŴR CYMRU
WELSH WATER

Owner's Name:	International Rectifiers Electronic Motion Systems	Trader's Name:	International Rectifiers Electronic Motion Systems
Owner's Address:	Penllergaer Business Park Penllergaer Swansea West Glamorgan SA4 1HL	Trader's Address:	Penllergaer Business Park Penllergaer Swansea West Glamorgan SA4 1HL
SPT:	74820	Contact Name:	
Responsible Officer:		Grid Reference:	
SIC Name:	MANUFACTURING	Consent Granted:	01 September 1999
Name of Division:	South West	Current Var/Dir:	
Name of STW:	GOWERTON	Consent Closed:	
Hydro. Ref. Point:	0	Consent Revoked:	
		Hydro. Distance:	0

Discharge Description:

Consent Comments:

Chemical:	Amount:	Units:
COD Total (Det Code 92)	2000	mg/Litre
Anionic Surfactants	30	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
352	m3/Day	4	Litre/sec			6	10



DWR CYMRU
WELSH WATER

Trade Effluent Licence: sw402

Owner's Name:	Mono Equipment Ltd	Trader's Name:	Mono Equipment Ltd
Owner's Address:	Queensway Swansea Industrial Estate Swansea West Glamorgan SA5 4EB	Trader's Address:	Queensway Swansea Industrial Estate Swansea West Glamorgan SA5 4EB
SPT:	74563	Contact Name:	
Responsible Officer:		Grid Reference:	
SIC Name:	ELECTROPLATING	Consent Granted:	11 November 1971
Name of Division:	South West	Current Var/Dir:	01 April 1987
Name of STW:	GOWERTON	Consent Closed:	
Hydro. Ref. Point:	0	Consent Revoked:	
		Hydro. Distance:	0

**Discharge
Description:**

Consent Comments:

Chemical:	Amount:	Units:
Tot Sol-Cr-Cu-Pb-Ni-Sn-Zn	10	mg/Litre
Total Metals Cd+Cu+Zn+Pb+Cr+Ni (Det Code	20	mg/Litre
Cyanide - Total (Det Code 175)	5	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
14.5	m3/Day	1.81	m3/Hr	06:00:00	22:00:00	6	10



DŵR CYMRU
WELSH WATER

Trade Effluent Licence: SW377

Owner's Name: City & County of Swansea
Owner's Address: County Hall
Oystermouth Road
Swansea
West Glamorgan

Trader's Name: Penyrheol Comprehensive School
Trader's Address: Pontardulais Road
Gorseinon
Swansea
West Glamorgan

SPT: 78435

Responsible Officer:

SIC Name: SWIMMING POOL

Name of Division: South West

Name of STW: GOWERTON

Hydro. Ref. Point: 0

Contact Name:

Grid Reference:

Consent Granted: 03 August 2001

Current Var/Dir:

Consent Closed:

Consent Revoked:

Hydro. Distance: 0

Discharge Description:

Consent Comments:

Chemical:	Amount:	Units:
Free Chlorine (Det Code)	0.1	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
39	m3/Day	3.6	Litre/sec			6	10



DŵR CYMRU
WELSH WATER

Trade Effluent Licence: sw403

Owner's Name:	Signode Ltd	Trader's Name:	Signode Ltd
Owner's Address:	Queensway Fforestfach Industrial Estate Swansea West Glamorgan SA5 4ED	Trader's Address:	Queensway Fforestfach Industrial Estate Swansea West Glamorgan SA5 4ED
SPT:	74569	Contact Name:	
Responsible Officer:		Grid Reference:	
SIC Name:	MANUFACTURING	Consent Granted:	15 June 1976
Name of Division:	South West	Current Var/Dir:	01 April 1987
Name of STW:	GOWERTON	Consent Closed:	
Hydro. Ref. Point:	0	Consent Revoked:	
		Hydro. Distance:	0

**Discharge
Description:**

Consent Comments:

Chemical:	Amount:	Units:
Tot Cr-Cu-Pb-Ni-Sn-Zn	20	mg/Litre
Tot Sol-Cr-Cu-Pb-Ni-Sn-Zn	10	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre
Cyanide - Total (Det Code 175)	5	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
20	m3/Day	2.5	m3/Hr.	08:00:00	18:00:00	6	10



DŵR CYMRU
WELSH WATER

Trade Effluent Licence: sw79

Owner's Name:	Timet UK Ltd	Trader's Name:	Timet UK Ltd
Owner's Address:	P O Box 57 Waunarlwydd Swansea West Glamorgan SA1 1XD	Trader's Address:	PO Box 57 Waunarlwydd Swansea West Glamorgan SA1 1XD
SPT:	74566	Contact Name:	
Responsible Officer:		Grid Reference:	
SIC Name:	Metal treatment	Consent Granted:	16 April 1993
Name of Division:	South West	Current Var/Dir:	01 August 2000
Name of STW:	GOWERTON	Consent Closed:	
Hydro. Ref. Point:	0	Consent Revoked:	
		Hydro. Distance:	0

Discharge Description:

Consent Comments:

Chemical:	Amount:	Units:
Total Fluoride (Det Code)	80	mg/Litre
Zinc (Det Code 245)	3	mg/Litre
Nickel (Det Code 429)	1	mg/Litre
Copper (Det Code 215)	2	mg/Litre
Chromium (Det Code 375)	1	mg/Litre
Oil and Grease (Det Code 666)	50	mg/Litre
Ammonia (Det Code 111)	100	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
500	m3/Day	100	m3/Hr			6	10



DŵR CYMRU
WELSH WATER

Trade Effluent Licence: SW406

Owner's Name:	Walkers Snackfoods Ltd	Trader's Name:	Walkers Snackfoods Ltd
Owner's Address:	Pontardulais Road Fforestfach Swansea West Glamorgan SA5 4LJ	Trader's Address:	Pontardulais Road Forestfach Swansea West Glamorgan SA5 4LJ
SPT:	74570	Contact Name:	
Responsible Officer:		Grid Reference:	
SIC Name:	FOOD INDUSTRY	Consent Granted:	11 November 1971
Name of Division:	South West	Current Var/Dir:	01 April 1987
Name of STW:	GOWERTON	Consent Closed:	
Hydro. Ref. Point:	0	Consent Revoked:	
		Hydro. Distance:	0

**Discharge
Description:**

Consent Comments:

Chemical:	Amount:	Units:
Oil and Grease (Det Code 666)	50	mg/Litre
Sulphate (Det Code 183)	1000	mg/Litre
Total Suspended Solids (Det Code 135)	500	mg/Litre

Volume	VolumeUnits	Rate	RateUnits	PeriodFrom	PeriodTo	pHLowerID	pHUpperID
9.1	m3/Hr	1.4	m3/Hr	06:00:00	22:00:00	6	10

