



ASiantaeth YR  
AMGYLCHEDD CYMRU  
ENVIRONMENT  
AGENCY WALES

Eich cyf/Your ref.

Ein cyf/Our ref. 2/CS/LL/BJ0076001;BP0328201

Dyddiad/Date: 13 October 2004

Carol Fielding  
Countryside Council for Wales  
Plas Gogerddan  
Aberystwyth  
Ceredigion  
SY23 3EE

Dear Ms Fielding

WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995), APPLICATIONS TO VARY CONSENTS TO DISCHARGE SEWAGE EFFLUENT BY DWR CYMRU CYF FROM CYNGHORDY WWTW, CYNGHORDY, LLANDOVERY, CARMARTHENSHIRE APPLICATION NOS BJ0076001; BP0328201

Thank you for your comments on the above discharge consent applications. The Environment Agency has taken account of your comments and has decided that consents should be granted with conditions. A copy of each consent is enclosed for your information.

Yours sincerely,

L LEWIS  
Authorisations Officer

Enc

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

Environment Agency Wales  
154 St Helen's Road, Swansea, SA1 4DF  
Tel: 01792 645300, Fax: 01792 648652







ASIANTAETH YR  
AMGYLCHEDD CYMRU  
ENVIRONMENT  
AGENCY WALES

Ein cyf/Our ref. 2/CS/LL/BJ0076001  
Eich cyf/Your ref.

Dyddiad/Date: 13 October 2004

Dwr Cymru Cyf  
Pentwyn Road  
Nelson  
Treharris  
CF46 6LY

Dear Sir/Madam,

**WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995) APPLICATION TO VARY CONSENT TO DISCHARGE SEWAGE EFFLUENT BY DWR CYMRU CYF FROM CYNGHORDY WWTW, CYNGHORDY, LLANDOVERY, CARMARTHENSHIRE  
APPLICATION NO: BJ0076001**

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 as detailed above.

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 at 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.

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

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

If you have any queries regarding the enforcement of this consent, please do not hesitate to contact Hamish Osborn, Team Leader Environment Management, Plas Gwendraeth, Heol Parc Mawr, Cross Hands Business Park, Llanelli SA14 6RE.

Yours faithfully,



**L LEWIS**  
**Authorisations Officer**

Enc.

**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

**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 BJ0076001

Nature of Discharge(s): SEWAGE EFF/TREATED EFF/CONTINUOUS  
at  
CYNGHORDY STW

Note: This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else you must pass the consent to them and tell the Agency within 21 days. Responsibility for the consent cannot be disclaimed by the holder but the registration of holder may be transferred to a successor. To do this please complete the form below, then tear it off and return it to the address shown. If you fail to transfer the consent, even though you are no longer on the site, you may still be liable for prosecution for pollution. If you transfer the consent but do not tell us, you will be committing an offence. In case of any queries please contact your local Environment Agency office.

**Part B** Please complete in block capitals or type.

To:

**Water Resources Act 1991: Notice of transfer of consent to discharge**

Consent:

Name:

Address:

I/We\* hereby serve notice on the Agency that I/we\* am/are\* no longer a/the\* Holder of the above consent which will be/was\* transferred to:

\* delete as appropriate

Name(s) of new holder(s):

Address:

Post Code:

Date of Transfer to new Holder(s):

Signed:.....

Dated:.....

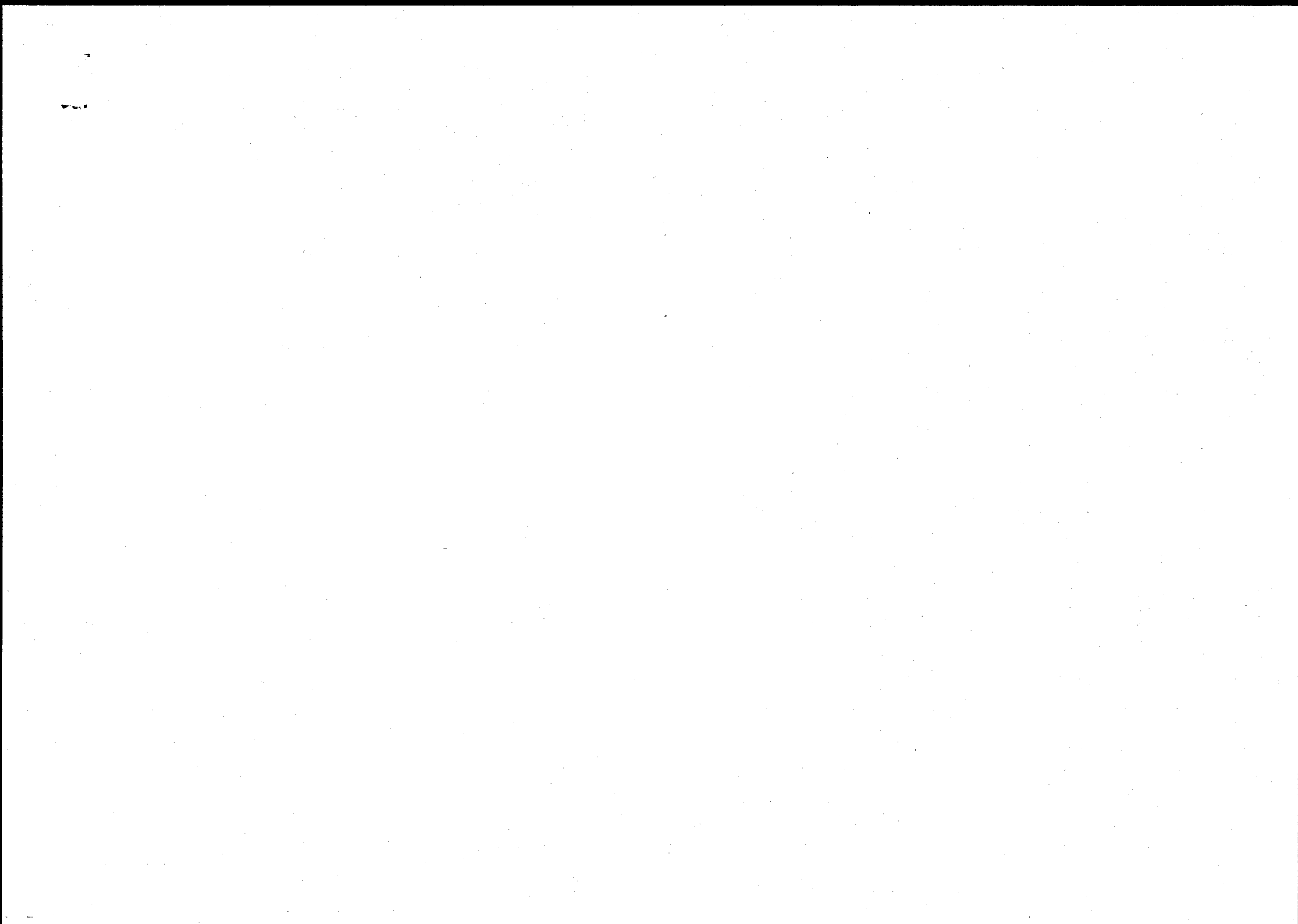
Name (block capitals):.....

Position:.....

WATERSON

(to be completed when signing on behalf of corporate body)





Welsh Off Ref

Form SS.RW2

WMA HQ Ref

RW/0534/1/1

LOCAL GOVERNMENT ACT 1972 WATER ACT 1973  
RIVERS (PREVENTION OF POLLUTION) ACTS 1951-1961  
WATER AUTHORITIES (CONTROL OF DISCHARGES) ORDER 1978

Sheet 1  
of 1

NOTIFICATION OF VARIATION OF CONSENT  
for a discharge of treated sewage effluent

To :

WELSH WATER AUTHORITY

This Notice is issued under the above-mentioned Acts and Order and all other enabling powers as a NOTICE DEEMED TO HAVE BEEN GIVEN BY THE SECRETARY OF STATE FOR WALES, in respect of the existing discharge of treated sewage effluent from the Authority's :

CYNGHORDY SEWAGE TREATMENT WORKS

via an existing outlet and subject hitherto to a previous consent as specified below.

THE EXISTING OUTLET is to : the River Bran

at National Grid Reference : SN 8044 3982

and has been shown marked : Discharge Point

on the attached Plan, No. : RW/0534/1/1

THE PREVIOUS CONSENT was : the Consent

Reference No. - ~~GS138~~

granted on : 20th February 1968

by : South West Wales River Authority  
to : Llandeilo Rural District Council

The Authority submitted this Notification of Variation on : 19th August 1981 to the Secretary of State for Wales in the form of a draft and the Secretary of State has NOT, within the relevant period, given notice of his intention to determine this matter. This discharge is therefore (in substitution for all the conditions hitherto in force) subject only to the following conditions as from : 19th November 1981

CONDITIONS

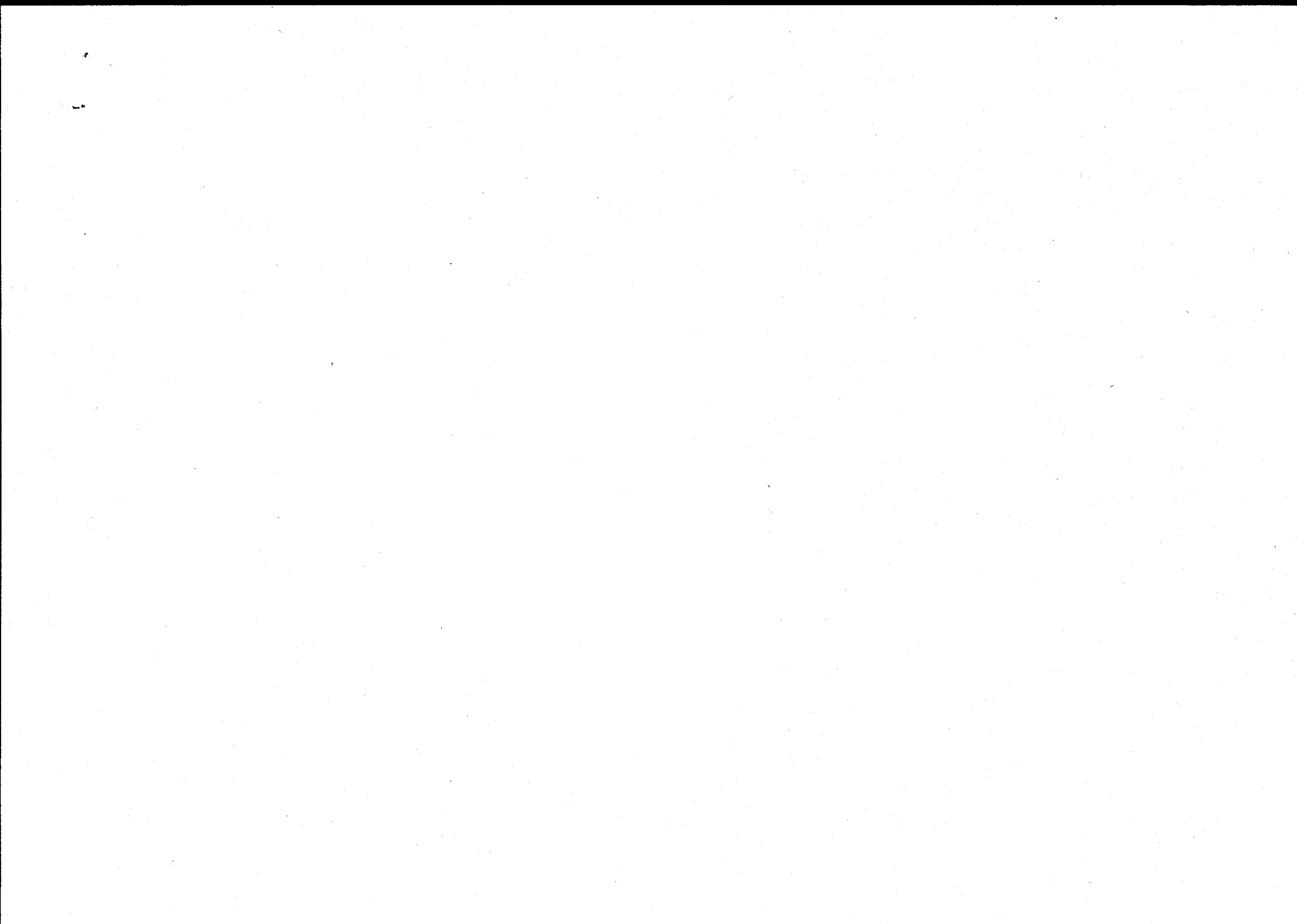
1. The discharge shall consist only of treated sewage effluent from the above works.
2. The quality and quantity of effluent shall not exceed the following maximum values:

<u>Determinand</u>	<u>Value</u>	<u>Unit</u>
Biochemical Oxygen Demand (+ATU) over 5 days at 20°C	60	milligrams per litre
Suspended Solids dried at 105°C	110	milligrams per litre

- |  |      |                   |
|--|------|-------------------|
| Rate of discharge  | -    | litres per second |
| Volume during any period of 24 consecutive hours   | -    | cubic metres      |
| Volume discharged under 'dry weather conditions' during any period of 24 consecutive hours | 19.7 | cubic metres      |
3. Adequate facilities shall be provided for the taking of samples of the effluent at: outlet from humus tank

The terms of this Notice will not, without the consent in writing of the person to whom this Notice is given, (or his successor), be altered before the expiration of the period-ending with the Nineteenth day of November 1983.

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





**SOUTH WEST WALES RIVER AUTHORITY**

**RIVERS (PREVENTION OF POLLUTION) ACTS, 1951-1961**

**B50076001**

**Consent to discharge of effluent.**

The South West Wales River Authority pursuant to the provisions of the above mentioned Acts, hereby consent to the construction of an outlet and to the discharge of effluent therefrom upon the following conditions :—

1. NAME AND ADDRESS OF PERSON to whom consent is given

**The Clerk, Llandilo Rural District Council,  
Council Offices, Crescent Road, Llandilo.**

2. PREMISES to which consent relates

**Cynghorby Sewage Disposal Works**

3. OUTLET

(a) Location—situated on right/left bank of River **Brwa**  
~~affluent of the River~~  
Map reference **0.5. SW 63**, Grid reference **6040 3985**.

(b) Construction—**unreinforced concrete pipe**

(c) Use—restricted to Sewage/~~Storm Sewage/Trade/Farm~~ Effluent produced at the above mentioned premises.

4. DISCHARGE

(a) Nature **Sewage Effluent**

(b) Volume or rate of discharge **4,000 g.p.d.**  
Maximum rate of discharge

(c) Temperature not to exceed **21 °C.**

(d) Composition :—  
(i) pH value not less than **6.0** or more than **8.5**

(ii) Suspended solids not more than **600** p.p.m.

(iii) ~~Dissolved solids not more than~~ **100** p.p.m.

(iv) 5 day B.O.D. at 20°C. not more than **40** p.p.m.

(v) ~~Oxygen absorbed from acid permanganate in~~ **3** min. at 27°C. not more than **3** p.p.m.

(vi) ~~Ammoniacal nitrogen (as N) not more than~~ **10** p.p.m.

(vii) Effluent shall pass the methylene blue stability test (5 days at 20°C.)

(viii) Effluent shall not contain any other polluting substance or substances in concentrations toxic to fish and other animals.

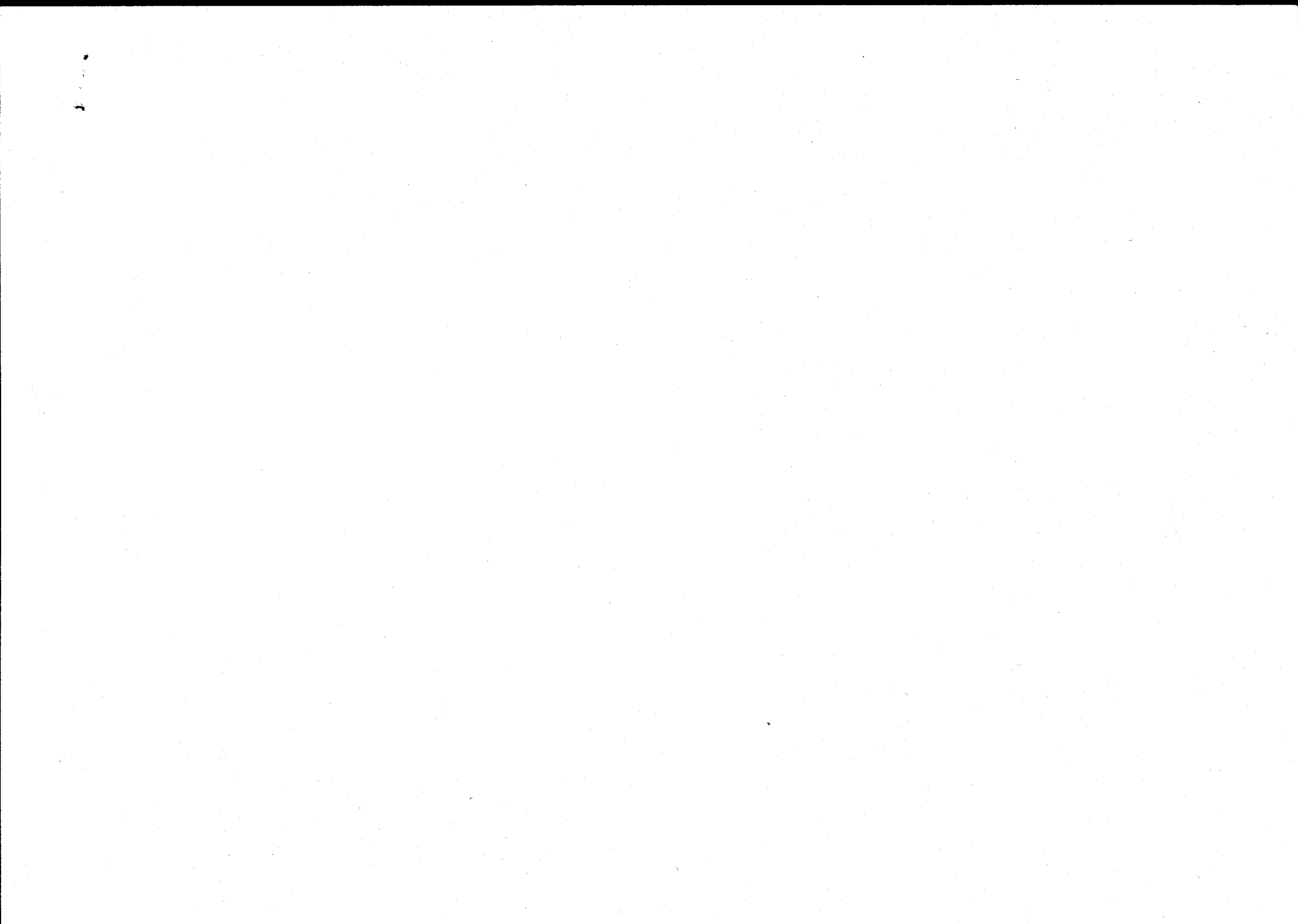
(e) Sampling point to be located at **point of outlet**

5. PERIOD OF CONSENT

The terms of this consent will not without the consent in writing of the person to whom this consent is given be altered before the expiration of the period ending with the **10th** day of **February** 19 **66**.

Dated this **20th** day of **February**, 19 **66**.

Clerk of the Authority.





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ENVIRONMENT  
AGENCY

## WATER RESOURCES ACT 1991 (schedule 10)

(as amended by the Environment Act 1995)

### Application for variation to an existing consent\* to discharge

(\* delete as appropriate)

<b>Regional/Area Address:</b>  The Regional Finance Manager Environment Agency Welsh Region PO Box 425 St Mellons Business Park CARDIFF CF3 0LT	<b>Official Use Only</b> <i>Dist/Area Ref:</i> 1303  <i>Application No.</i> BJ 00 76 001  <i>Date Received:</i> 21/6/04  <i>Fee Received:</i> £ 743.00
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Each applicant must complete the main form and may need to complete a separate annexe if appropriate. Please look through the form and read the notes carefully before you complete it. Processing of your application will be aided by full and accurate completion of all 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).

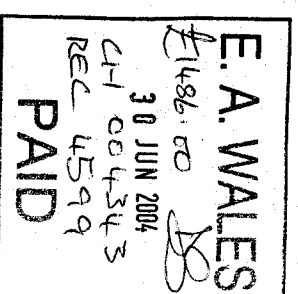
## 1 SITE ADDRESS

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

Cynghordy WwTW

Post Code:

N/a



## 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).

SocA works - see supporting documentation

2.3 a) Indicate proposed means of discharge - tick as appropriate and show on plan:

(for 1, 2 & 3 please state dimensions below)

1. Pipe ☒ 4. Borehole ☐ 7. Sub-Irrigation System ☐
2. Channel ☐ 5. Well ☐ 8. Combination of 6 & 7 ☐
3. Culvert ☐ 6. Soakaway ☐ 9. Other (*please specify below*) ☐

150 mm NB

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

S	N	8	0	4	1	9	3	9	8	1	0
---	---	---	---	---	---	---	---	---	---	---	---

(*please indicate on accompanying plans*)

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

At the outlet ☐ At a manhole or sampling chamber ☒

Other (*please specify*)

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

S	N	8	0	3	0	2	3	9	9	2	0
---	---	---	---	---	---	---	---	---	---	---	---

(*please indicate on accompanying plans*)

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

None

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

Septic Tank ☐ Package Sewage Treatment Works ☐ Other ☒

Primary settlement, rock media biological filter, humus settlement tank

	<input type="checkbox"/> No
--	-----------------------------

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

--

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.

--

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).

BJ 0076001

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.

Carmarthen County Council

--

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

1. Single Dwelling

☐

6. Fish Farm

☐

2. Multiple Dwellings

☐

7. Mineral Workings

☐

3. Industrial Premises

☐

8. Water Services plc STW

☒

4. Vehicle Parking Area

☐

9. Water Supply

☐

5. Commercial Premises (please specify)

☐

10. Other (please specify)

☐

--

--

- 3.3 Please indicate source of the water supply - tick as appropriate: not applicable
- |  |                          |   |                          |
|--|--------------------------|---|--------------------------|
| 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"/> | <input type="text"/>                      |                          |

#### 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 checked="" type="checkbox"/> | 6. Onto Land                    | <input type="checkbox"/> |
| 3. Canal                                   | <input type="checkbox"/>            | 7. Directly into Groundwater    | <input type="checkbox"/> |
| 4. Lake, Lock or Pond                      | <input type="checkbox"/>            | 8. Coastal Water (see note vii) | <input type="checkbox"/> |

State name of receiving water if known:

Afon Bran

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

m

(ii) Depth of perforated lining

m

(iii) Depth of unperforated lining

m

(g) A percolation test must be carried out in accordance with British Standard BS6297:1983.

Have the results been provided?

☐ Y/N

4.3

Is there a foul sewer available to which the discharge(s) could be made (see note viii)?

☐ Y/N

If yes, please give the reasons it is not practical to connect to it (eg distance, flow etc).

## 5 DETAILS OF APPLICANT AND OTHER INFORMATION

### 5.1 (See general notes and note ix)

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

\* Dwr Cymru Cyf  
\* Pentwyn Road  
\* Nelson  
\* Treharis  
\* Mid Glam  
\*

Post Code: CF46 6LY

Daytime Telephone Number: Hilary Ford 01437 769061

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: *Mary Ford*..... PRINT NAME: *MARY FORD*.....  
ON BEHALF OF: *Sir Cymru Cymru*..... DATED: *17-6-04*.....

## 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





ASIAN DEVELOPMENT BANK  
AMGYLCHEDD  
ENVIRONMENT  
AGENCY

## ANNEXE 1 SEWAGE EFFLUENT GREATER THAN 5 CUBIC METRES PER DAY

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

Official Use Only  
Application No.

1. Site Name.

Cynghordi WWTW

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

1 off horizontal flow primary, 1 off rock media biological filter, 1 off conical GRP humus tank

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

a) Maximum flow to full treatment.

(see note ii) in main guidance notes for population equivalents).

b) Dry weather flow of discharge(s).

c) Average daily flow.

d) Maximum rate of discharge(s)

103 m<sup>3</sup>/d

22 m<sup>3</sup>/d

27 m<sup>3</sup>/d

1.2 l/s

Yes

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

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

No

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

No

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

60

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

N/a

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

Residential

No

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

No

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

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

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



ASIANTAETH YR  
AMGYLCHEDD  
ENVIRONMENT  
AGENCY

## ANNEXE 4 WELSH REGION SUPPLEMENTARY INFORMATION ANNEXE

Please complete this annexe for every proposed discharge.

*Official Use Only*  
Application No.

### For all proposed discharges:

1. Site Name.

Cynghordy WWTW

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):

150mm NB

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

£125,000

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

No

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

Tick

Gravity

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

l/s

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

**For proposed discharges of sewer in storm or emergency conditions:**

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

8. Please state:

Population served (head)	60
Consumption (l/head/day) default = 180	180
Infiltration (m <sup>3</sup> /day)	10.8
Industrial effluent flow (m <sup>3</sup> /day)	0
Dry Weather Flow (m <sup>3</sup> /day)	22.0
Soc A (l/sec)	1.2
Predicted spill frequency (per annum)	N/a

**IMPORTANT NOTES FOR ALL CONSENT APPLICATIONS:**

1. Whoever signs the declaration on the main application form takes responsibility for the discharge, and will become the registered consent holder, if consent is given. In the case of a 'body corporate' (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.

# **Documentation Supporting Consent Application for Cynghordy WWTW**



## CONTENTS

### INTRODUCTION

1. Feasibility report, doc C879/6.1/01/001
2. A Process Flow Diagram of the system, drg C879/1001.
3. A location map, showing the site of the WwTW, drg C879/2001.
4. A location map showing the outfall discharge location, the treated effluent sampling point and the storm discharge sampling point, drg C879/2002.





## **Introduction**

Cynghordy WwTW treats wastewater from domestic council owned houses in the village of Cynghordy.

The EA spread sheet for AMP3 investment applies the core driver Q00 to the discharge which results in a tightening of the consented determinants.

Treated effluent is discharged to the Afon Bran.

Due to the difficulties of measuring very low flows the design has been based on accepted default consumption values and standard occupancy rates.

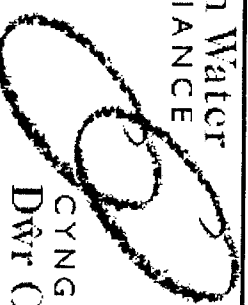
Existing assets are oversized for the connected population but in order to reinforce the solids consent a new final tank is proposed together with provision of services to the site.

Supporting documentation is attached.



Meica Processes  
Parc Y Splott WWTW  
Llansteffan Road  
Johnstown  
Carmarthen SA31 3QU  
Tel 01267 221131  
Fax 01267 221167

Welsh Water  
ALLIANCE

  
CYNGHRAIR  
Dŵr Cymru

## Document Cover Sheet

Project Title	Cynghordy WWTW
Project Number	C879
Client	DWR CYMRU/WELSH WATER
Document Reference Number	C879/6.1/01/001

## Cynghordy WWTW

## Feasibility & Outline Design Report

Rev.	Date	Description/Purpose	Prepared	Checked <sup>1</sup>			Approved for Issue <sup>2</sup>		
				Mech	Proc	Elect	LE	EM	PM
0	14.11.03	First issue	MR		MR			AJW	
A									
B									
C									
D									

### Notes

1. Relevant Disciplines to initial
2. LE – Lead Engineer, EM – Engineering Manager, PM – Project Manager



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- Proposed Process Flow Diagram (PFD) C879/1001	



## Summary

Cynghordy WWTW is scheduled for upgrade under the AMP3 programme, to meet new indicative consents of BOD:SS=:30:20.

The plant is grossly oversized for the connected population but must be subject to some upgrading to ensure compliance with the indicative consent.





## 1. INTRODUCTION

Cynghordy WWTW treats wastewater from domestic dwellings in the village, formally a council estate.

Current consent limits for the works are as follows

Biological Oxygen Demand (BOD) :	60 mg/l
Suspended Solids (SS) :	110 mg/l
Ammoniacal Nitrogen :	n/a mg/l
Dry Weather Flow (DWF)	19.7 m3/d

The EA spread sheet for AMP3 investment applies the core driver QO(c) to the discharge.

The indicative consent limits are as follows

Biological Oxygen Demand (BOD) :	20 mg/l
Suspended Solids (SS) :	30 mg/l

Treated effluent is discharged to the River Bran.

## 2. EXISTING WORKS

The Process Flow Diagram (PFD) for the existing works is included in the Appendix as Dwg. C879/1000.

Incoming flows gravitate from the housing estate to the works where all flows are passed forward to full treatment.

The primary settlement tank is a 4m x 1.5m horizontal flow unit with no desludge facility.

Secondary biological treatment is provided by a rock media filter 7.7m dia x 1.5m deep fitted with Tomkinson water wheel distributor having open trough arms.

A humus tank 2.2m x 1.2m provides final settlement before discharge to the sample chamber, a submersible pump in the humus tank recycles final effluent to the old siphon chamber when required operated from a generator as there is no power supply to the site.

There is a final sample chamber prior to discharge to the outfall.

There are no de-sludge facilities for either of the tanks, currently they are de-sludged by tanker.

There is no electricity (apart from a generator) or water supply on site.



### 3. FLOWS AND LOADS

A flow survey has been conducted during August. The data from this has proved to be of little use in confirming the theoretical flow and loads to be treated by the plant because of the difficulty of measuring such low flows.

Measured flows were a fraction of those expected from the connected population.

The following data has therefore been based on estimations of population equivalent from house count, information gleaned from DCWW database.

	BASIS	VALUE
Population Equivalent (PE) (inc. growth)	Flow	60
Dry Weather Flow (DWF)	m <sup>3</sup> /day	22
	l/s	0.3
Average Flow	m <sup>3</sup> /day	27
	l/sec	0.3
3DWF	m <sup>3</sup> /d	43
	l/sec	0.5
SOC A	m <sup>3</sup> /d	103
	l/s	1.2
BOD Load	kg/day	3.6
SS Load	kg/day	3.6
NH <sub>3</sub> – N Load	kg/day	0.5

The above table is a summary of the calculations which are included in the Appendix as Process Calculations Sheets C879/6.1/100.

### 4 EXISTING PLANT ISSUES

The plant was originally built for a much larger population than is currently connected.

Primary settlement is by means of a rectangular septic tank which is desludged periodically by tanker.

The existing rock filter will provide adequate biological capacity to achieve the indicative consent however there is a need for structural repairs to the brickwork.

The humus tank is a rectangular structure having no means of de-sludging apart from periodic emptying with a tanker.



Brickwork repairs are needed on the filter wall and on the chamber after th primary tank.

## **5 PROCESS ISSUES**

The existing primary/septic tank is adequately sized for the load and can be used for sludge storage, de-sludging by means of tanker should continue.

The existing rock filter will provide adequate biological capacity to achieve the indicative consent however there is a need for recirculation to be added to ensure wetting of the media.

To ensure continued compliance a GRP humus tank sized to suit the maximum flow should be installed with facilities to desludge to the primary which can continue to be used for sludge storage.

## **6 RECOMMENDATIONS.**

It is recommended that the following works be carried out to ensure continued compliance to the proposed new consented values.

- provision of power, telephone and potable water services to the site
- structural repairs to the filter brickwork and the post primary chamber
- flow controlled filter recirculation
- new 3m dia GRP conical humus tank with desludge facilities to primary/septic tank
- approved flow monitoring c/w local readouts

The Process Flow Diagram (PFD) for the proposed works is included in the Appendix as Dwg. C879/1001.



## Feasibility and Outline Design Report Acceptance Sheet

We confirm that we have discussed the content of the Cynghordy WWTW Feasibility and Outline Design Report and that we are in agreement with the conclusions and recommendations.

Aled Daniel, Manager United Utilities

..... Date .....

Stuart Worts, Meica Process Ltd., Project Manager

..... Date .....





## **APPENDIX**

- Process Calculations Sheets C879/6.1/100
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- Proposed Process Flow Diagram (PFD) C879/1001



**CYNHORDY**

consent BOD:SS 60/110  
DWF = 19.7 m3/d

**PARAMETER**

design basis horizon  
Resident Population served (P)

proposed consent BOD:SS:Amn-N 30/20

**CONVENTIONAL PLANT**

Doc Ref C879/6.1/100  
Prepared by MR  
Checked by AW  
Date 14.11.03

UNITS  
date  
pop.

60

based on house count = 22 @2.5+10%

**Design Flows**

Tourist pop served(T)  
Day visitors(V)  
Peak population served  
Per capita BOD contribution Residents  
Per capita BOD contribution Tourists  
Per capita BOD contribution Visitors  
per capita resident TSS contribution  
per capita tourist TSS contribution  
per capita Amn-N contribution Residents  
per capita Amn-N contribution Tourists  
per capita Amn-N contribution Visitors  
per capita domestic flow(G)  
per capita tourist flow  
per capita visitors flow  
total residents flow (PG)  
total tourists flow (Tg)  
total visitors flow (Vg)  
Infiltration (I)  
industrial flow (E)  
Dry weather flow (PG + Tg + Vg + I + E)

Average Flow

(3DWF)

(6DWF)

Formula  $A=(PG+I+E)+1.36P+2E$

Storm tank capacity (2hrs at 3DWF)  
storm tank capacity (68 l/h)

**LOADS**

Total BOD Load  
BOD Concentration at Average Flow  
Total TSS load  
TSS concentration at Average Flow  
Total Amn-N Load  
Amn-N concentration at Average Flow

**Primary Treatment**

Settled BOD load  
Settled BOD Concentration  
Settled TSS load  
Settled TSS concentration  
Settled Amn-N load  
Settled Amn-N concentration  
primary sludge mass

Flow split  
Number of tanks  
Type of tank  
length  
width  
Area  
Volume based on

pop.	0		
pop.	0		
pop.	60		
kg/h.d	0.06		
kg/h.d	0.04		
kg/h.d	0.02		
kg/h.d	0.06		
kg/h.d	0.06		
kg/h.d	0.008		
kg/h.d	0.006		
kg/h.d	0.003		
l/h.d	180		
l/h.d	120		
l/h.d	25		
m3/d	11		
m3/d	0		
m3/d	0.0		
m3/d	10.8	100 %	
m3/d	0.0	no trade discharge	
l/s	22 PG+I+E	Consent DWF = 19.7m3/d	
m3/d	0.3	measured av volume = 6 m3/d	
l/s	27		
m3/d	0.3		
m3/d	43 3PG+I+3E		
l/s	0.5		
m3/d	76		
l/s	0.9	maximum flow measured as 2.2 l/s	
m3/d	103		
l/s	1.2		
m3	3.6		
m3	4.1	none on site	
kg/d	3.6		
mg/l	133		
kg/d	3.6		
mg/l	133		
kg/d	0.5		
mg/l	17.8		
% removal			
kg/d	2.7		
mg/l	100		
kg/d	1.8		
mg/l			
kg/d	0.6 inc 15% increase in septic tank		
mg/l	20.4		
kg/d	1.8		
%	100.0		
	1.0		
m	4.0	rectangulie no desludge facility	
m	1.5		
m2	6.0		
m3	9.6		



Upflow rate	m/h	0.7 at SocA
Retention time	h	2.2

**Biological treatment**

secondary BOD load	kg/d	2.7
secondary BOD concentration	mg/l	
secondary TSS load	kg/d	1.8
secondary TSS concentration	mg/l	
secondary Amm-N load	kg/d	0.55
secondary Amm-N concentration	mg/l	
biol. sludge mass (@0.7kg/kg BOD removed)	kg/d	1.8

Number of filters		1.0
Diameter	m	7.7
Depth	m	1.5
Surface area	m <sup>2</sup>	46.6
Volume	m <sup>3</sup>	69.9
BOD loading	kg/m <sup>3</sup> /d	0.04 OK
hydraulic loading	m <sup>3</sup> /m <sup>2</sup> /d	2.2
Amm-N loading	kg/m <sup>3</sup> /d	0.008 OK for 5 mg/l Amm-N

<b>Final Settlement</b>	% removal	
Final BOD load	kg/d	0.14
Final BOD concentration	mg/l	5.0
Final TSS load	kg/d	0.18
Final TSS concentration	mg/l	7
Final Amm-N load	kg/d	0.55
Final Amm-N concentration	mg/l	20.4

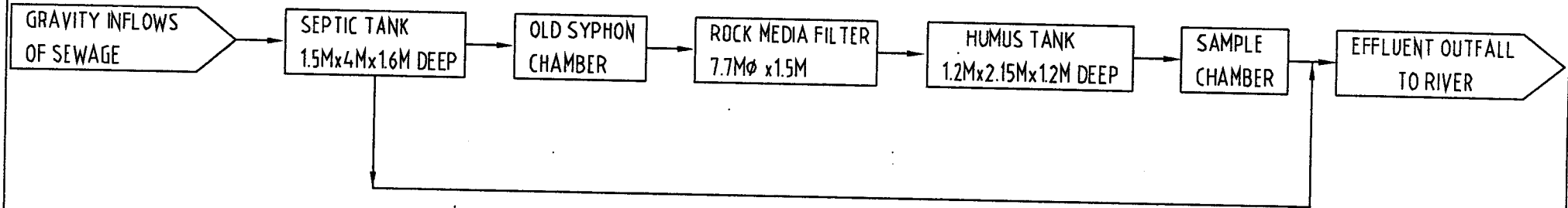
Number of tanks		1.0	New tank	1.0
Type of tank		rectangular		
length	m	2.2 no desludg diameter	circular	3.0
width	m	1.2 facility		0.0
Area	m <sup>2</sup>	2.6		6.4
Volume based on	m <sup>3</sup>	3.1	2	12.7
Upflow rate	m/h	1.7 at SocA		0.7 at SocA
Retention time	h	0.7		1.2 at max measured flow




**Sludge Production**

total sludge mass	kg/d	3.6
total sludge volume @2%ds	m <sup>3</sup> /d	0.2



# CYNGHORDY W.W.T.W. - EXISTING P.F.D.

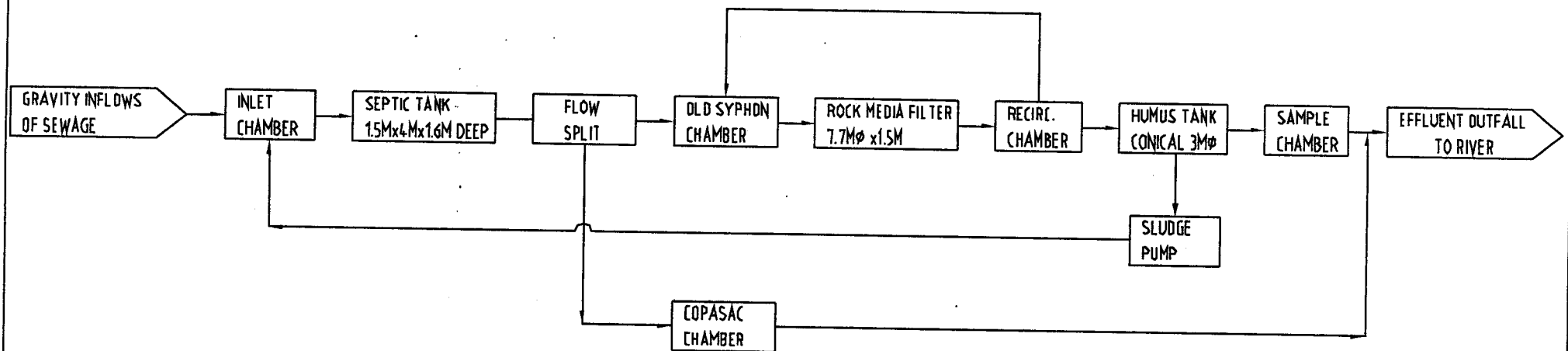





						Client DWR CYMRU CYFYNGEDIG SOUTH WESTERN DIVISION		Project CYNGHORDY W.W.T.W.		 Parc Y Sgript, Llanfônafon Road Llanfônafon, Carmarthen, SA31 3YU Tel: 01267 229213 Fax: 01267 221167	
OFFICE CHECK RUDY		DATE	MR	VS	WYD						
Description		Auth	Chk	Appd	Date	 Cyngordy Cyfwrdd Cyngordy		 DWR CYMRU CYMRU WATER		Title EXISTING PROCESS FLOW DIAGRAM	
Scale 1:1		Datum LOCAL								Project Code C879	
										Drawing No. C879-1000	
										Issue V1	





# CYNGHORDY W.W.T.W. - PROPOSED P.F.D.



						Client DWR CYMRU CYFYNGEDIG SOUTH WESTERN DIVISION		Project CYNGHORDY W.W.T.W.		 <p>Parc Y Sgloet, Llansafflan Road Jelinstown, Carmarthen, SA31 3DU Tel: 01267 225263 Fax: 01267 221167</p>	
OFFICE CHECK RUB		CAC	MR	MR	NOVES						
Description		Auth.	Chd.	Appd.	Date	 		Title PROPOSED PROCESS FLOW DIAGRAM		Project Code C879	
Scale 1:1		Datum LOCAL								Drawing No. C879-1001	
										Issue V1	





DŴR CYMRU  
WELSH WATER

Gwainn Tŷ Dŵr Gwastraff Pont Myrddin  
Pont Myrddin  
Hwlfordd  
Sir Benfro SA61 1JL

Merlins Bridge WWTW  
Merlins Bridge  
Haverfordwest  
Pembrokeshire SA61 1JL

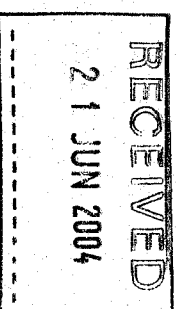
Ffôn: +44 (0)1437 765 460  
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Web site: [www.dwrcymru.com](http://www.dwrcymru.com)

17<sup>th</sup> June 2004

Ms. Anne Sennett  
Environment Agency Wales  
Maes Newydd  
Llandarcy  
Neath Port Talbot  
SA10 6JQ

Tel: 01437 769061



Dear Madam

### Application for Discharge Consent – AMP3 Programme Year 5 Quality Schemes

Please find enclosed application forms, fees and supplementary information in respect of the following discharges

- Cynghordy WWTW Final Effluent variation and new consent for Storm discharge
  - Feingwm Uchaf WWTW Final Effluent variation and new consent for storm discharge
  - Hundleton WWTW Final Effluent variation and new consent for Storm discharge
  - Pembrey WWTW Final Effluent variation and new consent for Storm discharge
- These form part of the year 5 capital investment programme.

Yours faithfully

Hilary Ford  
Area Consents and Regulation Scientist





ASIAANTAETH YR  
AMGYLCHEDD CYMRU  
ENVIRONMENT  
AGENCY WALES

Ein cyf/Our ref. 2/CS/LL/BJ0076001  
Eich cyf/Your ref.

Dyddiad/Date: 13 July 2004

Hilary Ford  
Area Consents and Regulation Scientist  
Dwr Cymru Welsh Water  
Merlins Bridge WWTW  
Merlins Bridge  
Haverfordwest  
Pembrokeshire SA61 1JL

Dear Ms Ford,

WATER RESOURCES ACT 1991, SCHEDULE 10 (As amended by the Environment Act 1995)  
APPLICATION FOR VARIATION TO CONSENT TO DISCHARGE FINAL EFFLUENT BY DWR  
CYMRU CYF. FROM CYNGHORDY WWTW, CARMARTHENSHIRE  
APPLICATION NO: BJ0076001

Thank you for your application for variation of consent to discharge final effluent & your application fee of £743.00. It is receiving consideration and you will be hearing from us again shortly. Please state application BJ0076001 in any correspondence with us relating to this application.

Yours sincerely

ANNE SENNETT  
Customer Contact & Authorisations Officer

Asiantaeth yr Amgylchedd Cymru  
Maes Newydd, Llandarsi, Nedd Port Talbot, SA10 6JQ  
Ffon: 01792 325500, Ffacs: 01792 325511

Environment Agency Wales  
Maes Newydd, Llandarcy, Neath Port Talbot, SA10 6JQ  
Tel: 01792 325500, Fax: 01792 325511





# **Documentation Supporting Consent Application for Cynghordy WwTW**

**Revised 02.07.04**





## CONTENTS

### INTRODUCTION

1. Feasibility report, doc C879/6.1/01/001/B
2. A Process Flow Diagram of the system, drg C879/1001/B
3. A location map, showing the site of the WwTW, drg C879/2001.
4. A location map showing the outfall discharge location, the treated effluent sampling point and the storm discharge sampling point, drg C879/2002/B.



## **Introduction**

Cynghordy WwTW treats wastewater from domestic council owned houses in the village of Cynghordy.

The EA spread sheet for AMP3 investment applies the core driver QO© to the discharge which results in a tightening of the consented determinants.

Treated effluent is discharged to the Afon Bran.

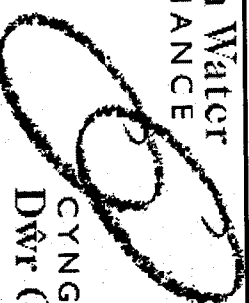
Due to the difficulties of measuring very low flows the design has been based on accepted default consumption values and standard occupancy rates.

Supporting documentation is attached.



Meica Processes  
 Parc Y Splott WwTW  
 Llansteffian Road  
 Johnstown  
 Carmarthen SA31 3QU  
 Tel 01267 221131  
 Fax 01267 221167

Welsh Water  
 ALLIANCE

  
 CYNGHRAIR  
 Dŵr Cymru

## Document Cover Sheet

<b>Project Title</b>	Cynghordy WwTW
<b>Project Number</b>	C879
<b>Client</b>	DWR CYMRU/WELSH WATER
<b>Document Reference Number</b>	C879/6.1/01/001/B

## Cynghordy WwTW

## Feasibility & Outline Design Report

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				Mech	Proc	Elect	LE	EM	PM
0	14.11.03	First issue	MR		MR			AJW	
A	20.05.04	Issued for final approval	MR	MR	MR	BB	SR	AJW	SW
B	02.07.04	Revised to include actual consented values	MR	SR	MR	BB	SR	AJW	SW
C									
D									

### Notes

1. Relevant Disciplines to initial
2. LE – Lead Engineer, EM – Engineering Manager, PM – Project Manager



## APPENDIX

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- Existing Process Flow Diagram (PFD) C879/1000
- Proposed Process Flow Diagram (PFD) C879/1001/A





Brickwork repairs are needed on the filter wall and on the chamber after the primary tank.

## **5 PROCESS ISSUES**

The existing primary/septic tank is adequately sized for the load and can be used for sludge storage, de-sludging by means of tanker should continue.

The existing rock filter will provide adequate biological capacity to achieve the indicative consent however there is a need for recirculation to be added to ensure wetting of the media.

Past performance sampling indicates that the existing Humus tank is able to process the effluent to an adequate standard to meet the revised consent therefore no change is necessary.

## **6 RECOMMENDATIONS.**

It is recommended that the following works be carried out to ensure continued compliance to the proposed new consented values.

- provision of power, telephone and potable water services to the site
- would assist operation of the site.
- structural repairs to the filter brickwork and the post primary chamber, these will be carried out under the maintenance budget.

The Process Flow Diagram (PFD) for the proposed works is included in the Appendix as Dwg. C879/1001/A.



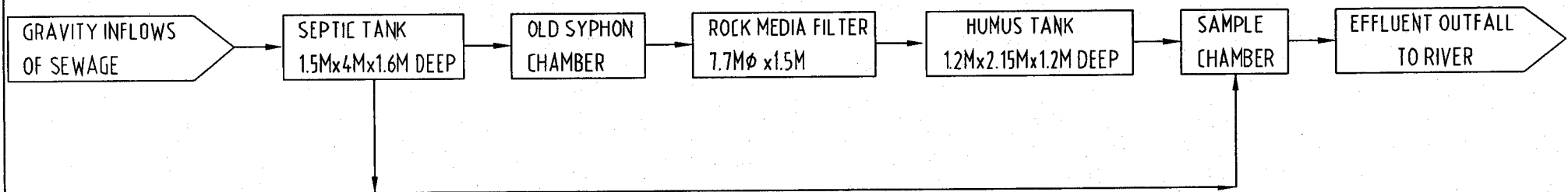
## Summary

Cynghordy WwTW is scheduled for upgrade under the AMP3 programme, to meet new consent values of BOD:SS:Amn-N = 40:60:21.

The plant is grossly oversized for the connected population but must be subject to some upgrading to ensure compliance with the indicative consent.



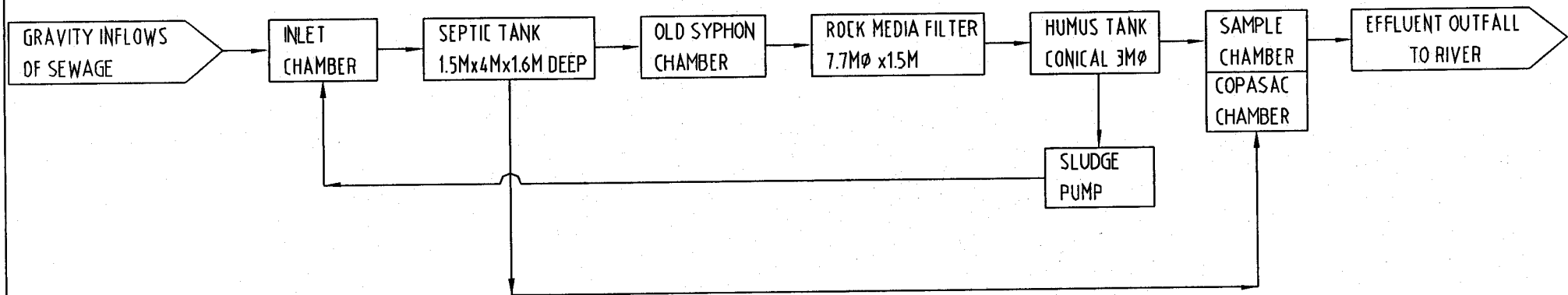
## CYNGHORDY W.W.T.W. - EXISTING P.F.D.




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# CYNGHORDY W.W.T.W. - PROPOSED P.F.D.



						Client		Project		<div>Parc Y Sgwdi, Llanelli Road Johnstons, Carmarthen, SA31 3QU Tel: 01267 229243 Fax: 01267 221167</div> <div></div>		
B AMENDED		DATE	MR	MR	NOV03	DWR CYMRU CYFYNGEDIG SOUTH WESTERN DIVISION		CYNGHORDY W.W.T.W.				
Issue		Description		Auth.	Ckd.	Appd.	Date	Title				
Scale		Datum						PROPOSED PROCESS FLOW DIAGRAM				
1:1		LOCAL										





## Anne Sennett - Cynghordy and Hundleton consents

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**From:** Martyn Robinson <Martyn.Robinson@meica-process.co.uk>  
**To:** "Trevor West (E-mail)" <trevor.west@environment-agency.wales.gov.uk>  
**Date:** 05/07/2004 13:32  
**Subject:** Cynghordy and Hundleton consents  
**CC:** Adrian Williams <Adrian.Williams@meica-process.co.uk>, "Hilary Ford (E-mail)" <hilary.ford@dwrcymru.com>, Stuart worts <Stuart.worts@meica-process.co.uk>

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Trevor - following your determinations of the consented parameters for these 2 sites we have reviewed our scope of work and as a result of this review there are some small changes to the supporting documentation that was submitted with the consent applications.

There is no change to the information given on the application forms.

Cynghordy

<<Documentation Supporting Consent ApplicationREV02.07.04.doc>>  
<<Feasibility Rep rev B.doc>> <<C879.1000.PDF>> <<C879-1001.pdf>>

Hundleton

<<Documentation Supporting Consent Applicationrev020704.doc>> <<Hundleton Feasibility RepB.doc>> <<C883.1001.PDF>>  
Trust these minor changes do cause too much confusion.

Regards Martyn Robinson  
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