

SOUTH WEST WALES RIVER AUTHORITY
RIVERS (PREVENTION OF POLLUTION) ACTS, 1951-1961
Clean Rivers (Estuaries & Tidal Waters) Act 1960
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

**Cernoe Rural District Council, R.D.C. Offices,
Grosvenor Hill, Cardigan.**

2. PREMISES to which consent relates

St. Dogmaels Sewerage - Storm Sewage Overflows 1. Pinog near main pumping station to tributary stream near discharge to River Teify.

3. OUTLET

- (a) Location—situated on right/left bank of River
a tributary of the River **Teify at Pinog, St. Dogmaels**
Map reference **O.S. 2 1/2" SW 14**, Grid reference **1665 4600**
 (b) Construction— **15" diameter D.V.C.** Pipe
 (c) Use—restricted to **Sewage/Storm Sewage/Trade/Farm Effluent** produced at the above mentioned premises.

4. DISCHARGE

- (a) Nature **Storm sewage effluent**
 (b) Volume or rate of discharge **to overflow only when flow incoming is 1**
 Maximum rate of discharge **of 592,200 g.p.d. = 6 x D.W.F. 818888**
 (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~~ p.p.m.
 (iii) ~~Dissolved solids not more than~~ p.p.m.
 (iv) ~~5 day B.O.D. at 20°C. not more than~~ p.p.m.
 (v) ~~Oxygen absorbed from acid permanganate in~~
 ~~3 mins~~ at ~~27°C.~~ not more than ~~4 hrs~~ p.p.m.
 (vi) ~~Ammoniacal nitrogen (as N) not more than~~ 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 **Main Pumping Station at Pinog.**

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 **31st** day of **October**, 19 **78**.

Dated this **13th** day of **October**, 19 **72**.

Clerk of the Authority.

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 BH0074507

Nature of Discharge(s); SEWAGE EFF/STORM EFF/RAINFALL
at
ST.DOGMAELS SSO 1 PINOG NEAR M

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:.....

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





* Re-entated 13/2/96
Discharge up and running

Awdurdod Afonydd Cenedlaethol
Rhanbarth Cymru

National Rivers Authority
Welsh Region

WATER RESOURCES ACT 1991
SCHEDULE 10 - REVOCATION OF CONSENTS AND
ALTERATION AND IMPOSITION OF CONDITIONS

Consent No: BH0074507

To: DWR CYMRU CYFYNGEDIG

Of: Plas-Y-Ffynnon
Cambrian Way
Brecon
Powys
Ld3 7hp

For: A discharge of STORM SEWER OVERFLOW

To: TRIB. OF TEIFI

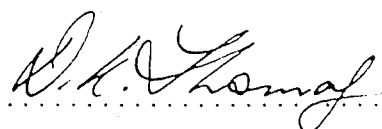
From: ST.DOGMAELS SSO 1 PINOG NEAR MAIN P.S.

In accordance with the powers contained under paragraph 6(2) of Schedule 10 to the Water Resources Act 1991, the Authority has reviewed the above consent, and hereby gives NOTICE that with effect from the date hereof, the said consent is REVOKED.

RIGHT OF APPEAL

If you wish to appeal against this decision you should write to the Secretary of State for Wales at the Welsh Office, Cathays Park, Cardiff enclosing a copy of this Notice.

Dated..... 14 MAR 1994

Signed..... 

Aelod Rhanbarthol o'r Byrdd
Yr Athro Ron Edwards

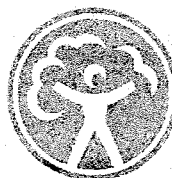
Rheolwr Rhanbarth Cyllfredinol
Dr John Stoner

Llys Afon
Hawthorn Rise
Hwllfordd
Dyled SA61 2BQ
Ffôn. Hwllfordd (0437) 760081
Ffacs (0437) 760881

Regional Board Member
Professor Ron Edwards

Regional General Manager
Dr John Stoner

Llys Afon
Hawthorn Rise
Haverfordwest
Dyled SA61 2BQ
Tel Haverfordwest (0437) 760081
Fax (0437) 760881



ASiantaeth YR
AMGYLCHEDD
ENVIRONMENT
AGENCY

WATER RESOURCES ACT 1991 (schedule 10)

(as amended by the Environment Act 1995)

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

Regional/Area Address: The Regional Finance Manager Environment Agency Wales Cambrian House 29 Newport Road CARDIFF CF24 0TP	Official Use Only <i>Dist/Area Ref:</i> <i>Application No.</i> BH0074507 + BP 011010 <i>Date Received:</i> 23/8/2004 <i>Fee Received:</i> £1486.00
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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.

St Dogmaels, Jewsons CSO (St Dogmaels Main PS CSO & EO), Cardigan
Asset number: 51655
DC number: DC2101906

Post Code:

Not Applicable

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

Not Applicable

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

☒

4. Borehole

☐

7. Sub-Irrigation System

☐

2. Channel

☐

5. Well

☐

8. Combination of 6 & 7

☐

3. Culvert

☐

6. Soakaway

☐

9. Other (please specify below)

☐

New 400mm diameter

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

S	N	1	6	6	4	7	4	6	0	3	9
---	---	---	---	---	---	---	---	---	---	---	---

(please indicate on accompanying plans)

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

At the outlet

☐

At a manhole or sampling chamber

☒

Other (please specify)

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

S	N	1	6	6	2	6	4	5	9	9	7
---	---	---	---	---	---	---	---	---	---	---	---

(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 ☐

Not Applicable

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

Y/N

- 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.

Under storm and emergency conditions

- 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).*

Consent number BH0074507 (CSO) BP011010 (EO)

Unique identifier DC2101906

- b) Has any person had a Prohibition Notice serviced on them in respect of this site?

No

If yes, please give the reference number.

3 SITE DETAILS

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

Pembrokeshire County Council

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

1. Single Dwelling

☐

6. Fish Farm

☐

2. Multiple Dwellings

☐

7. Mineral Workings

☐

3. Industrial Premises

☐

8. Water Services plc STW

☐

4. Vehicle Parking Area

☐

9. Water Supply

☐

5. Commercial Premises *(please specify)*

☐

10. Other *(please specify)*

☒

Pumping Station CSO & EO

- 3.3 Please indicate source of the water supply - tick as appropriate:
- | | | | |
|--|--------------------------|---|--------------------------|
| 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"/> | Not Applicable | |

4 DETAILS OF RECEIVING ENVIRONMENT

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

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

State name of receiving water if known:

Afon Teifi, Cardigan

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).

Not Applicable

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 Glamorgan

*

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)

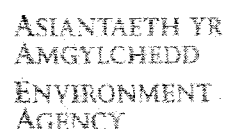
SIGNED: Hilary Ford..... PRINT NAME: HILARY FORD.....
ON BEHALF OF: Dŷn Cymru Cŵ..... DATED: 19.08.04.....

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



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 Annexe 3 should also be completed).

Official Use Only
Application No.

- St Dogmaels, Jewsons CSO (St Dogmaels Main PS CSO), Cardigan Catchment**

- ## Storm tanks

11

Combined Sewer Overflow from sewerage system

--	--

Combined Sewer Overflow from pumping station

X

Emergency overflow from sewerage system

10

Emergency overflow from pumping station

10

Other (please specify)

7

3. For effluents discharging from sewage treatment works, is the storm/emergency effluent discharged via the same outlet as the treated effluent? **Not Applicable**

Not Applicable

Y/N

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

[illegible]

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

Consent of apprehension handed to _____

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

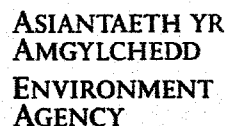
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4. For effluents discharging from combined sewer overflows, is the discharge via a dedicated pipe?

Yes

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

[illegible]



SEWAGE EFFLUENT DISCHARGED IN STORM OR EMERGENCY CONDITIONS

Official Use Only
Application No.

- St Dogmaels, Jewsons CSO (St Dogmaels Main PS EO), Cardigan Catchment**

-

X



- Not Applicable**

YN

[illegible]

[illegible]

- Yes**

[illegible]

5. Overflow settings

- a) Overflow setting to storm tanks
- b) Maximum flow to storm tanks
- c) Overflow setting to storm sewage overflow
- d) Maximum flow to storm sewage overflow

Not Applicable

Not Applicable

38l/s

Not Applicable

6. Storage capacity

- a) Volume of Storm tanks
- b) Retention time of storm tanks at maximum flow
- c) Storage capacity of sewer/wet well

Not Applicable

Not Applicable

200m³

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

**Refer to Discharge Consent Report:
Hyder Consulting (UK) Limited – Document Number NE02337/D32/1**

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

Yes

If yes, please give details.

A telemetry alarm is raised if there is a mechanical failure and is linked to a central control room

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).

6mm Static Wave Mesh Screen

10. What provisions will be made to deal with:

- a) power failure (eg standby generators)?
- b) mechanical breakdown (eg standby pumps)?
- c) rising main failure?
- d) tanker access?

2hrs Emergency Storage at 3DWF

Standby pump will be provided

None

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 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.

St Dogmaels, Jewsons CSO (St Dogmaels Main PS CSO), Cardigan Catchment

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

No

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

Not Applicable

IMPORTANT: If you are in need of advice on either part of Question 2, please contact the Agency Regional Consents Section on 02920 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):

400mm

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

Not Applicable

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

No

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) **Gravity**

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

l/s

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

X

8. Please state:

Population served (head)	1607
Consumption (l/head/day) default = 180	180
Infiltration (m ³ /day)	619
Industrial effluent flow (m ³ /day)	None
Dry Weather Flow (m ³ /day)	907
Soc A (l/sec)	36
Predicted spill frequency (per B S >50m3)	1.6

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.

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

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

l/s

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

X

8. Please state:

Population served (head)	1607
Consumption (l/head/day) default = 180	180
Infiltration (m ³ /day)	619
Industrial effluent flow (m ³ /day)	None
Dry Weather Flow (m ³ /day)	907
Soc A (l/sec)	36
Predicted spill frequency (per annum)	0

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.**



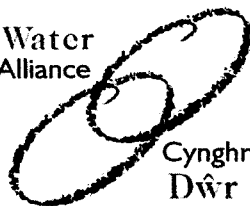
St Dogmaels, Jewsons CSO (St Dogmaels Main PS CSO & EO) Cardigan Catchment

Discharge Consent Report

August 2004

Report No: NE02337/D32/1

**Welsh Water
Capital Alliance**



**Cynghair Cyfalaf
Dŵr Cymru
South West Team**



St Dogmaels, Jewsons CSO (St Dogmaels Main PS CSO & EO) Cardigan Catchment

Discharge Consent Report

Author: Andy Wayt

Checker: Mike Allen

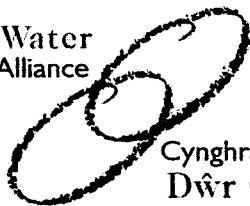
Approver: Alun Holvey

Report no: NE02337/D32/1

Date: August 2004

This report has been prepared for Morrison Construction Limited in accordance with the terms and conditions of appointment for the Cardigan CSO Study dated February 2003. Hyder Consulting (UK) Limited cannot accept any responsibility for any use of or reliance on the contents of this report by any third party.

Welsh Water
Capital Alliance



Cynghrair Cyfalaf
Dŵr Cymru
South West Team

Hyder 
Consulting

1 SUMMARY

This report has been prepared to support a Discharge Consent Application for a variation to an existing consent at St Dogmaels, Jewsons CSO, (St Dogmaels Main PS) Combined Sewer Overflow (CSO) and Emergency Overflow (EO), within the Cardigan catchment.

SUMMARY DATA: St Dogmaels, Jewsons CSO (St Dogmaels Main PS)			
		Existing	Proposed
Asset Information	DCWW Asset No.	51655	51655
	EA Consent No.	BH0074507 (CSO) BP011010 (EO)	BH0074507 (CSO & EO)
	Unique ID No.	DC2101906 (CSO) Not Listed (EO)	DC2101906 (CSO) Not Listed (EO)
	Grid Reference – Structure	SN16626 45997	SN16626 45997
	Grid Reference – Discharge Point	SN16626 45997	SN16647 46039
	Receiving Waters	Afon Teifi	Afon Teifi
	Population	1534	1607
	Infiltration (l/s)	7.16	7.16
	Trade Flow (l/s)	0	0
	DWF (l/s)	10.0	10.5
	Storage Provision (m³)	-	200
	Emergency Storage (m³) 2hrs @ 3 DWF	-	124
	CSO Type	Overflow Pipe	Overflow Pipe in wet well
Aesthetic	Amenity	High	High
	Annual Spill Volume per B S (m³)	5157	4723
	Annual Spill Frequency per B S (>0m³)	29.6	2.3
	Screen Type & Size	None	6mm Static Wave Mesh (CSO & EO)
Hydraulic	CSO Setting (l/s)	18	38
	SOC 'A' (l/s)	34	36
Environmental	Designated Bathing Waters	Poppit Sands	Poppit Sands
	EA Spill Frequency Criteria	-	3 per Bathing Season
	Annual Spill Frequency per B S (>50m³)	19.6	1.6

2 PREFERRED SOLUTION

The preferred solution has been identified by Hyder Consulting (UK) Limited (HCL) and Morrison Construction Limited (MCL) within the Cardigan Phase 3 Report. This recommends the provision of a 6mm static screen, to satisfy minimum EA aesthetic requirements and amenity standards. As the existing EO does not comply with current standards, it is not considered suitable for retrofitted screens. Therefore, it is necessary to construct a new 6mm static wave mesh screen within the new wet well chamber. The new structure will pass 38 l/s via new pumps before spilling to the watercourse via the screened overflow (see Appendix A for Location Plan).

The option involves the provision of 200m³ of storage by means of a circular wet well storage tank. The storage will be provided via a 7.5m diameter shaft. The storage tank will reduce the number of spills to less than three on average per bathing season. The tank will also act as emergency storage for 2 hours 3DWF. However, once the storage within the new tank has been fully utilised, the flows will discharge over a higher (screened) 400mm overflow pipe to the new sampling chamber. Then finally spilling to the Afon Teifi via a new outfall pipe to below MLWS.

3 LIST OF REPORTS

List of Previous Reports:

1. Black & Veatch Consulting - Cardigan CSO Study Initial Planning Report – Phase 1 Report (November 2000)
2. Black & Veatch Consulting - Cardigan CSO Study - Model Archive Report – (August 2001)
3. Black & Veatch Consulting - Cardigan CSO Study - Draft Phase 3 Report – (March 2003)
4. Hyder Consulting (UK) Limited - Cardigan CSO Study - Phase 3 – Development of the Catchment Strategy (October 2003): NE02237/D03/1

Reports Submitted With This Application:

1. Hyder Consulting (UK) Ltd. – St Dogmaels, Jewsons CSO (St Dogmaels Main PS CSO & EO), Cardigan Catchment, - Discharge Consent: Ref: NE02337/D32/1

4 APPENDICES

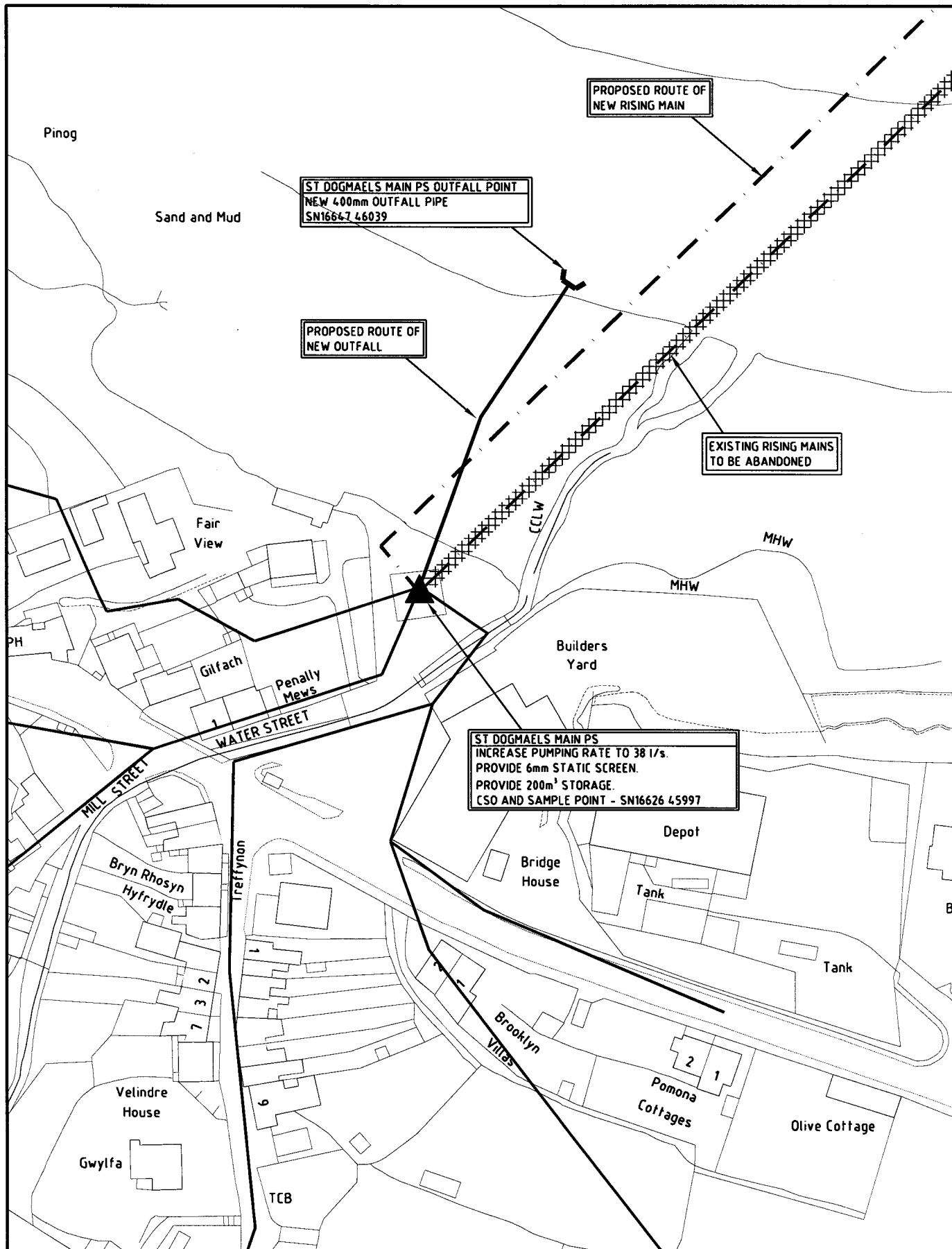
Appendix A – Location Plan





Appendix B – Proposed Screen Details

Appendix C – EA Phase 3 Sign Off Sheet

Appendix A

Location Plan

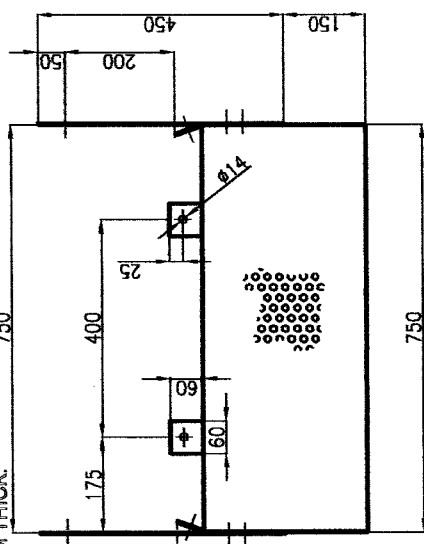
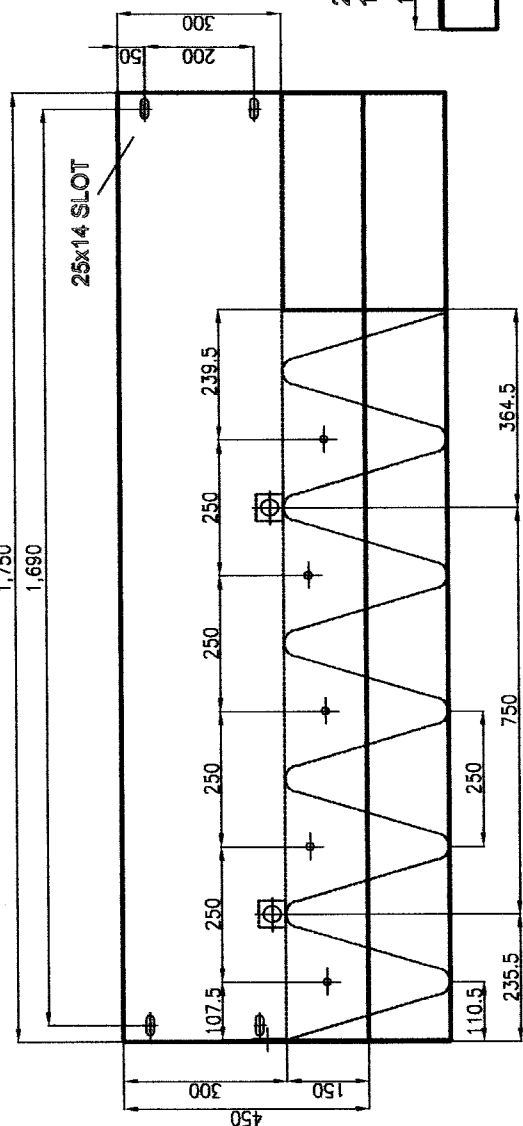


						<div>Project</div> <div>CSO IMPROVEMENT SCHEME CARDIGAN CATCHMENT</div>	<div>Client</div> <div><div><div>Welsh Water Capital Alliance</div><div></div><div>Cynghrair Cytfael Dŵr Cymru</div></div></div>	<div></div> <div>Dŵr Cymru Welsh Water</div>	<div></div> <div>Hyder Consulting</div>
01	EA DISCHARGE CONSENT	MSP	AW	GHL	JULY '04	<div>Title</div> <div>CARDIGAN ST DOGMAELS MAIN P.S. CS.O & EO EA DISCHARGE CONSENT LOCATION PLAN</div>	<div></div> <div>Morrison Construction</div>		
Issue	Description	Auth.	Chd.	Appd.	Date		<div>Project Code</div> <div>NE02337</div>	<div>Drawing No.</div> <div>ENV 1</div>	<div>Issue</div> <div>V1</div>
Scale A4		Datum		ORDNANCE					
1:1250									

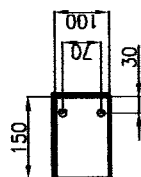
Appendix B

Proposed Screen Details

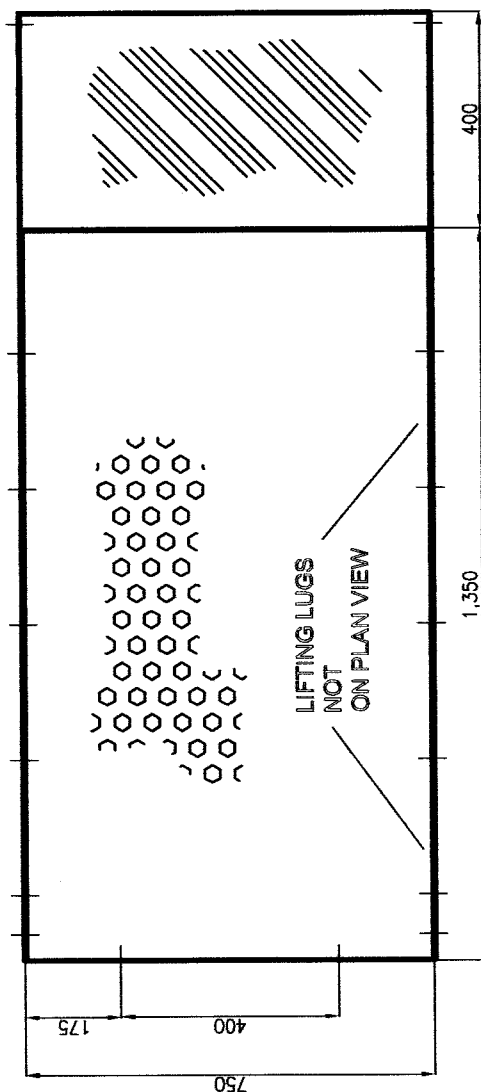
NOTES:
ALL MATERIAL 304 GRADE STAINLESS STEEL
ALL BOLTS M12 A2 GRADE STAINLESS STEEL.
ALL PLTWORK 3MM THICK. 750



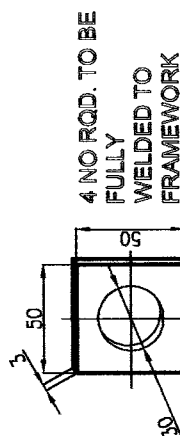
2 NO RQD.
100X6FLAT



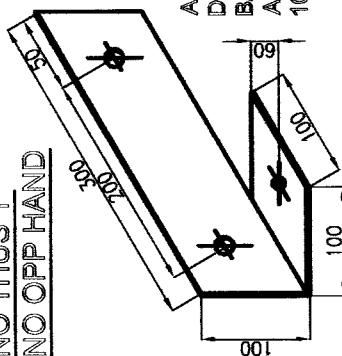
2 NO RQD. 1
NO THUS 1
NO OPP HAND



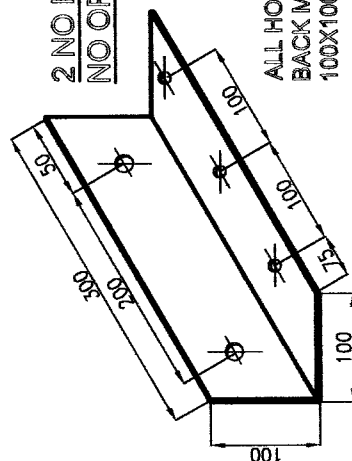
**LIFTING LUGS
NOT
ON PLAN VIEW**



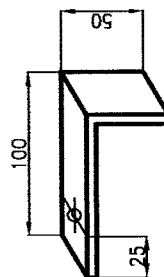
4 NO RQD. TO BE FULLY WELDED TO FRAMEWORK



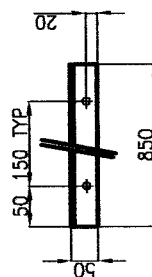
**ALL HOLES 14
DIA ON 50MM
BACK MARK.
ANGLE
100X100X3**



2 NORQD. 1 NO THUS 1
NO OPP HAND



50X6 FLAT FORMED AS DRG.
2 NO RQD CW 14 DIA HOLE.



2 NO. 50X50X6 ANGLES RQD. THUS

[illegible]

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www.csoteknik.com

UNIT 1

**CARDIGAN ST DOGMAELS
MAIN PUMPING STATION
STATIC WAVE SCREEN
GENERAL ARRANGEMENT**

CONTRACT No.	SCALE NTS	MASTER SIZE A3	ISSUE B
DRAWING No.	V414/03/01		
CONTRACTOR DRAWING No.			
CLIENT DRAWING No.			

Appendix C

EA Phase 3 Sign Off Sheet

PHASE 3 PARTIAL SOLUTION

SCHEME NAME: CARDIGAN

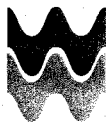
The data in the following table will be taken as the information expected on the consent application, unless an amendment is provided and signed off by EA Staff

DC No.	Consent No.	Name	NGR	Present		Future		Screens (Type & Size)	Storage (m3)	No. of BS Spills (>50m3)		Emergency provision if PS	Comments (for EA use)
				SOC 'A' (l/s)	CSO Setting (l/s)	SOC 'A' (l/s)	CSO Setting (l/s)			Current	Future		
N/A	BH0074201 BH0074203	Cardigan No 1 PS	SN1820546010	13.2	12.0	27.5	14.0	(6mm AMP4)	0	7.9	8.2(<vol)	0	
N/A	BH0074404 BH0074403	Cardigan No 3 PS	SN1774745766	8.9	9.0	11.8	10.0	(6mm AMP4)	0	3.8	2.9	0	
DC2101904 DC2101910	BH0074503 BH0074102	Cardigan No 5 PS	SN1796145834	19.2	20.0	27.5	20.0	6mm	120	3.3	0.3	120m ³	
N/A	BH0074303 BH0074301	Cardigan No 2 PS	SN1800945986	94.3	52.0	149.0	70.0	(6mm AMP4)	0	31.3	28.1	0	
N/A	No consent	Greenfield Square CSO	SN1773646206	34.9	12.0	86.5	32.0	(6mm AMP4)	0	16.6	15.0	0	
DC2101902 DC2101903	BH0074501 BH0074502	Cardigan No 4 PS	SN1759945979	135.9	76.0	242.2	110.0	6mm	290	8.5	0.7	290m ³	
DC2101909	BH0074511	St Dogmaels No 4 CSO	SN1634246727	4.1	10.5	4.1	46.0	6mm	0	7.9	0.1	0	
N/A	No consent	St Dogmaels North End PS	SN1632546912	8.0	5.0	8.1	5.0	6mm	100	N/A	2.3	100m ³	
N/A	BH0074510	St Dogmaels No 3 CSO	SN1629946415	9.0	12.9	9.1	12.9	N/A	N/A	0.0	0.0	n/a	
DC2101908	BH0074509	St Dogmaels No 2b CSO	SN1625346200	1.0	20.0	1.0	20.5	6mm	0	1.0	1.0	n/a	
DC2101907	BH0074508	St Dogmaels No 2a CSO	SN1635346200	15.2	18.0	10.1	15.0	6mm	0	0.0	1.2	n/a	
DC2101906	BH0074507 BP011010	St Dogmaels Main PS	SN1662245993	34.1	18.0	35.8	38.0	6mm	200	19.6	1.6	200m ³	
N/A	BH0074101 BP02754101	Cardigan STW	SN1704446207	170.0	55.0	284.6	100.0	6mm storm overflow	1350	N/A	2.0	1350m ³	

Accepted by EA

Name: _____

Date: _____



DŴR CYMRU
WELSH WATER

Gwaith Trin Dŵr Gwastraff Pont Myrddin
Pont Myrddin
Hwlfordd
Sir Benfro SA61 1JL

Ffôn: +44 (0)1437 765 460
Ffacs: +44 (0)1437 762 552
Safle gwe: www.dwrcymru.com

Merlins Bridge WWTW
Merlins Bridge
Haverfordwest
Pembrokeshire SA61 1JL

Tel: +44 (0)1437 765460
Fax: +44 (0)1437 762552
Web site: www.dwrcymru.com

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

19th August 2004

Tel: 01437 769061

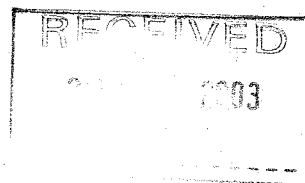
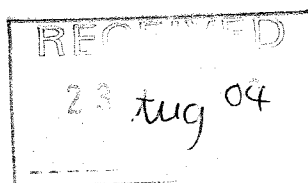
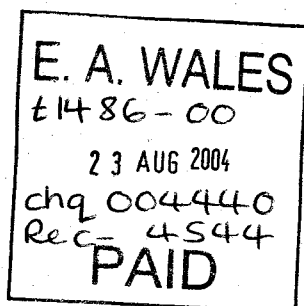
Dear Madam

Application for Discharge Consent – Storm and Emergency overflows from St. Dogmaels Main PS (Jewsons).

Please find enclosed application forms, fee and supporting information for the above application which forms part of the AMP3 Cardigan catchment scheme. This entails a variation and consolidation of the existing CSO consent from the PS followed by revocation of the existing deemed EO consent.

Yours faithfully

Hilary Ford
Area Consents and Regulation Scientist



We welcome correspondence in Welsh and English.
Rydym yn croesawu gohebiaeth yn y Gymraeg neu yn Saesneg.

United Utilities yn cydweithio gyda Dŵr Cymru Welsh Water
i ddarparu gwasanaethau gweithredol a chynnal a chadw ar
gyfer asedau dŵr a dŵr gwastraff.

Dŵr Cymru Cyl, cwmni cyfyngedig wedi'i gofrestru yng
Nghymru rhif 2366777. Swyddfa gofrestredig: Heol Pentwyn,
Nelson, Treharris, Morgannwg Ganol CF46 6LY.

United Utilities working with Dŵr Cymru Welsh Water, for
the provision of operation and maintenance services for
water and wastewater assets.

Dŵr Cymru Cyl, a limited company registered in
Wales no. 2366777. Registered office: Pentwyn Road,
Nelson, Treharris, Mid Glamorgan CF46 6LY.

CONSENT NO.

BH0074507



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
Dŵr Cymru Cyfyngedig
Pentwyn Road
Nelson
Treharris
CF46 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 of a discharge **OF SEWAGE EFFLUENT**, as follows:

Sewage in an Emergency
Storm Sewage

with respect to Consent No. **BH0074507** issued on the 13th day of October 1972

FROM: St Dogmaels, Jewsons CSO (St Dogmaels main PS CSO & EO)

AT: Cardigan

TO: Afon Teifi

HEREAFTER SUBJECT TO the conditions set out in the following schedules:

Sewage in an Emergency
Storm Sewage

Schedule No. BH0074507 01
Schedule No. BH0074507 02

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 14 day of March 2005

Signed
Team Leader Regulatory Water Quality

Asiantaeth yr Amgylchedd Cymru
"Maes Newydd", Llandarsi, Nedd Port Talbot. SA10 6JQ

Ffon 08708 506506 Ffacs 01792 325511

Environment Agency Wales
"Maes Newydd", Llandarcy, Neath Port Talbot. SA10 6JQ

Tel 08708 506506 Fax 01792 325511



CONSENT NO.	BH0074507
SCHEDULE NO.	BH0074507 01
DATE ISSUED	<i>18th March</i> 2005



**ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales**

CONDITIONS OF CONSENT TO DISCHARGE

Sewage in an Emergency ("the Discharge")

FROM: St Dogmaels, Jewsons CSO (St Dogmaels main PS CSO & EO), Cardigan

NATURE

1. The Discharge shall consist solely of sewage in an emergency.
2. The Discharge shall only occur when the sewage pumping station is inoperative as a result of one or more of the following:
 - (i) electrical power failure not due to the act or default of the Consent Holder, its agents, representatives, officers, employees or servants;
 - (ii) mechanical breakdown of duty and standby pumps;
 - (iii) rising main failure;
 - (iv) blockage of the downstream sewer not due to the act or default of the Consent Holder, its agents, representatives, officers, employees or servants;

and it is not reasonably practicable to dispose of the sewage otherwise. There shall be no undue delay on the part of the Consent Holder in remedying any such failure or breakdown.

LOCATION

3. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 400 millimetre diameter pipe;
 - (b) discharging to the Afon Teifi;
 - (c) at National Grid Reference SN 16647 46039;
 - (d) shown marked 'Consent Point' on Plan BH0074507 attached as Annex 1.



CONSENT NO.	BH0074507
SCHEDULE NO.	BH0074507 01

SAMPLE POINT

4. A sample point shall be provided and maintained at National Grid Reference SN 16626 45997, as shown marked 'Sampling Point' on Plan BP0256001, 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

5. Storage capacity of 200 cubic metres or greater, equivalent to a total of at least 2 hours at 3DWF in the sewer immediately upstream of the pumping station, shall be provided in the pumping station and/or the upstream sewerage system, above the wet well design top water level.

For the purposes of this condition 3DWF shall be defined as calculated from $3PG+I+3E$ where P is population, G is water consumption per head per day, I is infiltration allowance and E is trade effluent flow to sewer.

COMPOSITION

6. (a) The Discharge shall not contain a significant quantity of solid matter having a size greater than 6 millimetres in more than one dimension.
- (b) The Discharge shall not be comminuted or macerated to achieve the standard in (a) above.

RECORDING AND REPORTING

7. (a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected the operation of the Pumping Station. 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 the operation of the Pumping Station.

CONSENT NO.	BH0074507
SCHEDULE NO.	BH0074507 01



**ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales**

TELEMETRY

8. (a) A 24 hour response telemetry alarm system shall be provided and maintained to provide a notification in the event of operation of the emergency overflow.
- (b) The Consent Holder shall notify the Agency, as soon as practicable after receipt of an overflow telemetry warning, that operation of the emergency overflow has taken place.
9. On request the Consent Holder shall supply the Agency with a written report on the operation of the emergency overflow.

POWER

10. Facilities shall be provided so that a stand-by generator may readily be installed at the pumping station in the event of electrical failure and the Consent Holder shall install and operate such a generator as soon as is practicable after an electrical failure.

PUMPS

11. The duty pump shall be maintained in good working order, and at least one stand-by pump shall be provided and maintained.
12. 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.

OTHER

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



CONSENT NO.	BH0074507
SCHEDULE NO.	BH0074507 02
DATE ISSUED	<i>18 March</i> 2005



**ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales**

CONDITIONS OF CONSENT TO DISCHARGE

Storm Sewage ("the Discharge")

FROM: St Dogmaels, Jewsons CSO (St Dogmaels main PS CSO & EO), Cardigan

NATURE

1. The Discharge shall consist solely of storm sewage.

LOCATION

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 400 millimetre diameter pipe;
 - (b) discharging to the Afon Teifi;
 - (c) at National Grid Reference SN 16647 45997;
 - (d) shown marked 'Consent Point' on Plan BP0256001 attached as Annex 1.

SAMPLE POINT

3. A sample point shall be provided and maintained at National Grid Reference SN16626 45997, as shown marked 'Sampling Point' on Plan BH0074507, 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.
 - (a) Storm sewage storage of 200 cubic metres capacity shall be provided and fully utilised prior to discharge being made.
 - (b) The Discharge shall occur when, and only for as long as, the storm sewage storage facility is fully utilised and the rate of flow at inlet sewer is in excess of 38 litres per second due to rainfall and/or snow melt, and shall consist only of flows in excess of this figure. The storm sewage storage facility shall be emptied and its contents returned to the pass forward flow as soon as practicable after cessation of the overflow.



CONSENT NO.	BH0074507
SCHEDULE NO.	BH0074507 01

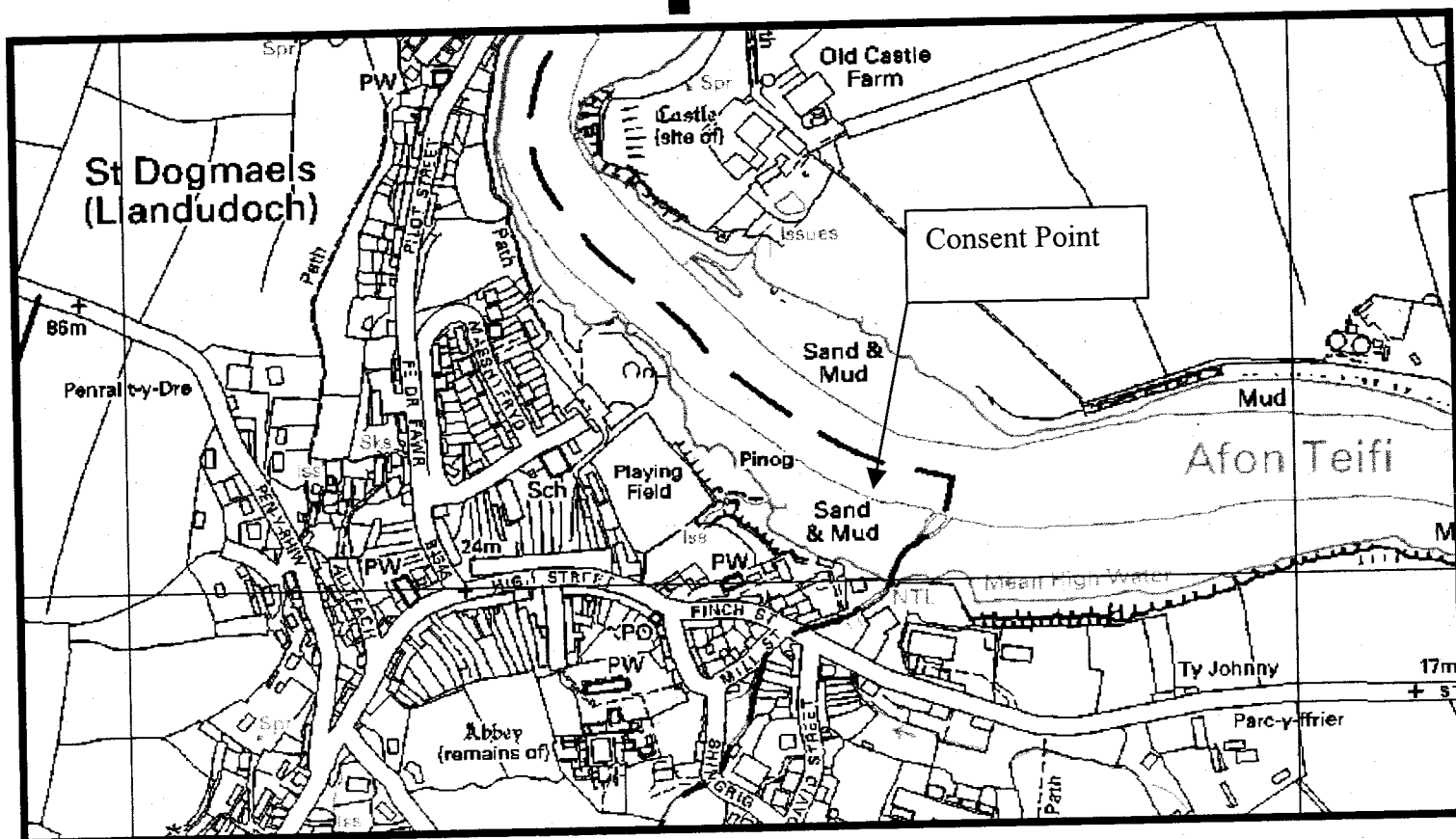
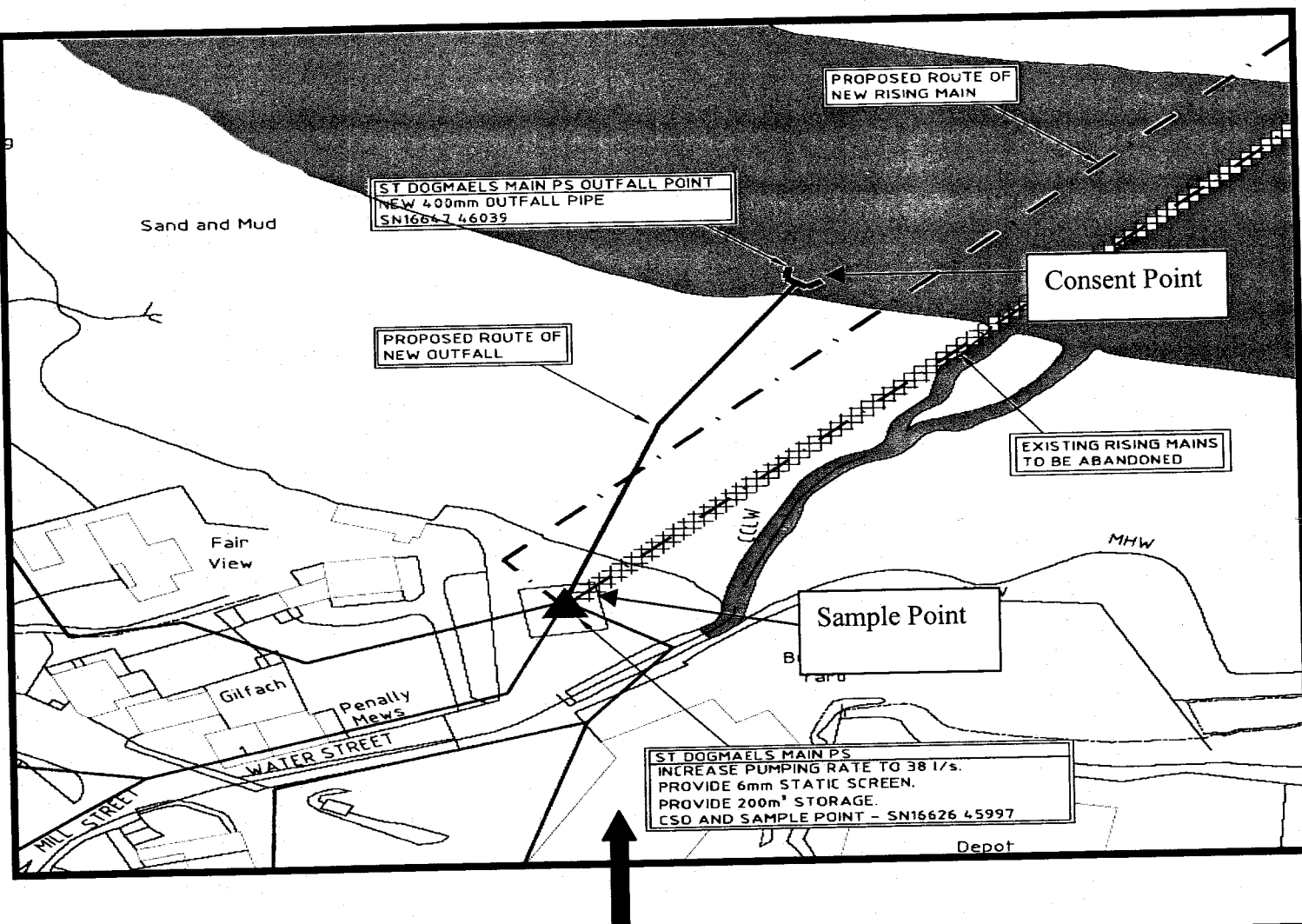
COMPOSITION

5. (a) The Discharge shall not contain a significant quantity of solid matter having a size greater than 6 millimetres in more than one dimension.
- (b) The Discharge shall not be comminuted or macerated to achieve the standard in (a) above.

MAINTENANCE

6. The overflow shall be maintained in an efficient operational condition.

ST DOGMAELS (JEWSON'S) CSO CARDIGAN





ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Ein cyf/Our ref. LL/BH0074507
Eich cyf/Your ref.

Dyddiad/Date: 22 March 2005

Tony Andrews
Environment Quality Scientist
Dwr Cymru Cyf
Pentwyn Road
Nelson
Treharris
Mid Glamorgan
CF46 6LY

Dear Mr Andrews,

**RE: WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995) APPLICATION FOR CONSENT TO DISCHARGE SEWAGE EFFLUENT AT ST DOGMAELS, JEWSON'S CSO, CARDIGAN, CEREDIGION BY DWR CYMRU CYF
APPLICATION NO BH0074507**

Further to your application the Agency has decided that consent should be given subject to conditions. I enclose the Agency's formal consent to discharge sewage effluent from St Dogmaels, Jewsons CSO, Cardigan, Ceredigion.

Under the present Scheme of Charges for Discharges to Controlled Waters an annual charge will be made for all consents to discharge, except where the discharge is of sewage effluent of five cubic metres or less per day. The charge is based on information derived from the conditions attached to the consent to discharge, as outlined in the enclosed leaflet.

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

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

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

Asiantaeth yr Amgylchedd Cymru
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 D Gareth Jones, Team Leader Environment Management, Environment Agency Wales, Glan Teifi, Barley Mow, Lampeter, SA48 7BY.

Yours sincerely,



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