



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)

<b>Regional/Area Address:</b>	<i>Official Use Only</i> <i>Dist/Area Ref:</i>  <i>Application No. BPO302601.</i> <i>Date Received: 27/9/02.</i> <i>Fee Received: €688 —</i>
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Each applicant must complete the main form and may need to complete a separate annexe if appropriate. Please look through the form and read the notes carefully before you complete it. Processing of your application will be aided by full and accurate completion of all the relevant sections and provision of the necessary plans. If you have any queries regarding the form please contact the person given in the notes.

### NOTE:

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

## 1 SITE ADDRESS

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

MORLAIS MINEWATER TREATMENT SCHEME  
FORMER MORLAIS COLLIERY  
OFF PONTARDULAIS ROAD  
LLANGENNECH, LLANELLI (OGR SN 570 020)

Post Code:

SA14 8YF

## 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)

MINERWATER DISCHARGE (ANNEXE 3 COMPLETED)

2.2 Please state the maximum quantity it is proposed to discharge in any one day **25056** m<sup>3</sup>/day  
Briefly state how this figure was calculated (see note ii).

BASED ON MAXIMUM RECORDED FLOW RATE OF 290 L/s

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)

OUTFALL STRUCTURE WITH V-NOTCH WEIR.

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

/     /     (please indicate on accompanying plans)

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

At the outlet

At a manhole or sampling chamber

Other (please specify)

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

/     /     (please indicate on accompanying plans)

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

V-NOTCH WEIR AT DISCHARGE POINT

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

SETTLEMENT LAGOONS AND REED BEDS

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

2.6 a) On what date do you anticipate the discharge will commence? 05/03

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

to: / /

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

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

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

### 3 SITE DETAILS

3.1 Please give the name of the relevant Planning Authority.

CARMARTHENSHIRE COUNTY COUNCIL

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

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

MINERWATER TREATMENT.

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"/> |   |                          |

8. MINEWORKINGS

#### 4 DETAILS OF RECEIVING ENVIRONMENT

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

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

State name of receiving water if known:

UPSTREAM OF NTL BUT TIDAL AFFECTED - RIVER MORLAIS VIA DITCH.

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

N/A.

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

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

## 5 DETAILS OF APPLICANT AND OTHER INFORMATION

5.1 (See general notes and note ix)

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

\* THE COAL AUTHORITY  
\* 200 LICHFIELD LANE  
\* MANSFIELD  
\* NOTTINGHAMSHIRE  
\*

Post Code: NG18 4RG.

Daytime Telephone Number: 01623 427162

Company Registration Number (if appropriate):

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

\* PARSONS BRINCKERHOFF (FAO. JONATHAN RALPH)  
\* QUEEN VICTORIA HOUSE  
\* REDLAND HILL  
\* REDLAND  
\* BRISTOL  
\*

Post Code: BS6 6US

Contact Name and Daytime Telephone Number: 0117 933 9300

5.2

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

\* THE COAL AUTHORITY  
\* (AS ABOVE).  
\*  
\*  
\*

Post Code: NG18 4RG.

Daytime Telephone Number:

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

SEE PREVIOUS CORRESPONDANCE.

# DECLARATION

I/We:

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

(\* Delete as appropriate)

SIGNED: Jonathan Ralph PRINT NAME: JONATHAN RALPH  
ON BEHALF OF: PARSONS BRINCKERHOFF FOR COAL AUTHORITY DATED: 26 SEPT 2002

o o o

## CONFIDENTIALITY

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

SIGNED: ..... DATED: .....

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



ANNEXE 3  
TRADE EFFLUENT DISCHARGES

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

Official Use Only  
Application No.

1. Site Name.

MORLAIS MINERWATER TREATMENT SCHEME

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

MINERWATER DISCHARGE - TREATED FLOWS FROM SETTLEMENT LAGOONS AND REEDBED SYSTEM.

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

SITE CONTAINS 2 LAGOONS AND 3 REEDBEDS  
(10,000m<sup>2</sup>) (30,000m<sup>2</sup>)

3. Rainfall Dependent Discharges

a) Is the volume going to be rainfall dependent?

VARIES.  Y/N

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

N/A. m<sup>2</sup>

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

N/A.

4. Rainfall Independent Discharges

a) What is the maximum rate of discharge?

289 l/s

b) What is the average daily flow?

(BASED ON 170L/s) 14688 m<sup>3</sup>/d

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

i) give the abstraction licence number.

N/A.

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

S N / 5 7 2 3 / 0 2 2 3 (please mark on the plan)

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

Y(N)

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

Y(N)

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

N/A

- b) Will the discharge be monitored for temperature?  
If yes, please give details of type and location (*please indicate on plan*).

Y(N)

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

Y(N)

If yes, please complete the following:

- a) The application reference.

- c) Contact name of case officer.

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

*SEE PREVIOUS CORRESPONDANCE*

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

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

Y  N

If yes, please give details.

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

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



**Parsons  
Brinckerhoff Ltd**

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Redland Hill  
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Environment Agency  
Glantawe  
154 St Helens Road  
Swansea  
SA1 4DE

Thursday, 26 September 2002

OUR REF: BEN45191A/L071



cheque no: 004178  
Receipt no: 0155

For the attention of Trevor West, Water Quality Consent Officer

Dear Sir

**APPLICATION TO DISCHARGE TRADE EFFLUENT BY THE COAL AUTHORITY FROM THE FORMER MORLIAS COLLIERY, OFF PONTARDULAI ROAD, LLANGENNECH, LLANELLI, SA14 8YF  
OGR: SN 570 020**

Further to our letter dated 25<sup>th</sup> July 2002 and our subsequent meeting on-site at Morlais regarding the discharge license application, please find enclosed our application for discharge consent on behalf of The Coal Authority at the former Morlais colliery, Llangennech, Llanelli.

We have enclosed the following:

- Completed application for new consent to discharge
- Complete Annex 3 – Trade Effluent
- Application Fee in the form of a cheque for £688.00

We envisage the current discharge to continue until the treatment system is commissioned in May/June 2003. From this point the current discharge will act as an emergency overflow/bypass system.

I trust that the enclosed Annexes and our comments above will provide you with the information you require. If you should have any further queries, please do not hesitate to contact me.

Yours faithfully  
**Parsons Brinckerhoff Ltd**

**JONATHAN RALPH**  
Senior Civil Engineer

Enc

**Over a Century of  
Engineering Excellence**

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