

## Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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Western Power Distribution  
Investments Limited

The release of raw water via the  
scour pipe at  
Llanishen Reservoir  
Llanishen  
Cardiff  
CF23 6PZ

Permit number  
EPR/AP3228GT

# The release of raw water via the scour pipe Llanishen Reservoir Permit Number EPR/AP3228GT

## Introductory note

### *This introductory note does not form a part of the permit*

The main features of the facility are as follows.

Llanishen Reservoir has a surface area of 238,000m<sup>2</sup> and a maximum storage capacity of 1,440,909m<sup>3</sup>. Rainfall is the exclusive source of the reservoir waters as it is fully bunded with no feeder streams. Releases can be made via outlet pipe work to the Nant Fawr.

The status log of the permit sets out the permitting history, including any changes to the permit reference number

<b>Status Log of the permit</b>		
<b>Detail</b>	<b>Date</b>	<b>Comments</b>
Application EPR/AP3228GT/A001	Duly made 19/03/10	-
Additional information received	28/05/10	Response to Schedule 5 Notice
	02/07/10	Amended risk assessment
Permit determined	19/07/2010	

End of introductory note

## Permit

Permit number

**EPR/AP3228GT**

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

**Western Power Distribution Investments Limited** (“the operator”),

whose registered office is

**Avonbank**

**Feeder Road**

**Bristol**

**BS2 0TB**

company registration number 02202625

to operate a water discharge activity at

**Llanishen Reservoir**

**Llanishen**

**Cardiff**

**CF23 6PZ**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
<b>Sean Pruce</b>	19 <sup>th</sup> July 2010

Authorised on behalf of the Environment Agency

# Conditions

## 1 Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

## 2 Operations

### 2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

### 2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green and the discharge shall be made at the point marked on the site plan at schedule 7 to this permit and as listed in table S3.2 (discharge points).

### 2.3 Operating techniques

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- (b) If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan specified in schedule 1, table S1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

- 2.3.2 (a) The use of any chemical for treatment of the effluent must be agreed in writing with the Environment Agency prior to use.
- (b) The chemical dosing material shall at all times conform to the British Standards specification(s) relating to potable products or other equivalent specification as agreed in writing with the Environment Agency prior to use.

## **3 Emissions and monitoring**

### **3.1 Emissions to water**

- 3.1.1 There shall be no point source emissions to water except from the sources and emission points listed in schedule 3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.

### **3.2 Emissions of substances not controlled by emission limits**

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

### **3.3 Monitoring**

- 3.3.1 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

## **4 Information**

### **4.1 Records**

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made.

- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

## 4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

## 4.3 Notifications

- 4.3.1 The Environment Agency shall be notified without delay following the detection of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
- (b) the breach of a limit specified in the permit; or
- (c) any significant adverse environmental effects.

- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

## **4.4 Interpretation**

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “without delay”, in which case it may be provided by telephone.

# Schedule 1 - Operations

**Table S1.1 Activities**

Activity reference	Description of activity	Limits of specified activity
A1	Raw water via outlet 1	

**Table S1.2 Operating techniques**

Description	Parts	Date Received
Raw water from outlet 1	Llanishen Reservoir; Reservoirs Act 1975: Measures to be taken in the Interest of Safety under Section 10(6) of the Act, Phase 2 Drawdown.	28/05/10 (original) 02/07/10 (amended version submitted)

## **Schedule 2 - Waste types, raw materials and fuels**

Wastes are not accepted as part of the permitted activities and there are no restrictions on raw materials or fuels under this schedule.

## Schedule 3 – Emissions and monitoring

**Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements**

Discharge source and discharge point ref. & location	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
Raw water from outlet 1	Maximum daily discharge volume	19,008 m <sup>3</sup> /day	Total daily volume	N/A		Maximum
Raw water from outlet 1	Maximum rate of discharge	220 litres per second	Instantaneous (spot sample)	N/A		Maximum
Raw water from outlet 1	Suspended solids (measured after drying at 105° C)	50 mg/l	Instantaneous (spot sample)	N/A		Maximum
Raw water from outlet 1	pH	6 to 9	Instantaneous (spot sample)	N/A		Minimum and maximum
Raw water via outlet 1	Oxygen dissolved % saturation	50	Instantaneous (spot sample)	N/A		Minimum
Raw water from outlet 1	Visible oil or grease	No significant trace present	Instantaneous (spot sample)	N/A	Daily	No significant trace

**Table S3.2 Discharge points**

Effluent Name	Discharge Point	Discharge point NGR	Receiving water/Environment
Raw water	outlet 1	ST 18759 81439	Nant Fawr

**Table S3.3 Monitoring points**

<b>Effluent name</b>	<b>Monitoring type</b>	<b>Monitoring point NGR</b>
Raw water outlet 1	sample point 1 (Suspended solids (measured after drying at 105° C), pH, Oxygen dissolved % saturation, Visible oil or grease).	ST 18697 81414
Raw water outlet 1	sample point 2 (Maximum daily discharge volume and Maximum rate of discharge).	ST 18669 81386

## Schedule 4 – Reporting

There is no reporting under this schedule.

## Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

### Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

**(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution**

**To be notified within 24 hours of detection**

Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

**(b) Notification requirements for the breach of a limit**

**To be notified within 24 hours of detection unless otherwise specified below**

Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

**Part B - to be submitted as soon as practicable**

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of Western Power Distribution Investments Limited.

## Schedule 6 - Interpretation

"*accident*" means an accident that may result in pollution.

"*annually*" means once every year.

"*application*" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

"*EP Regulations*" means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

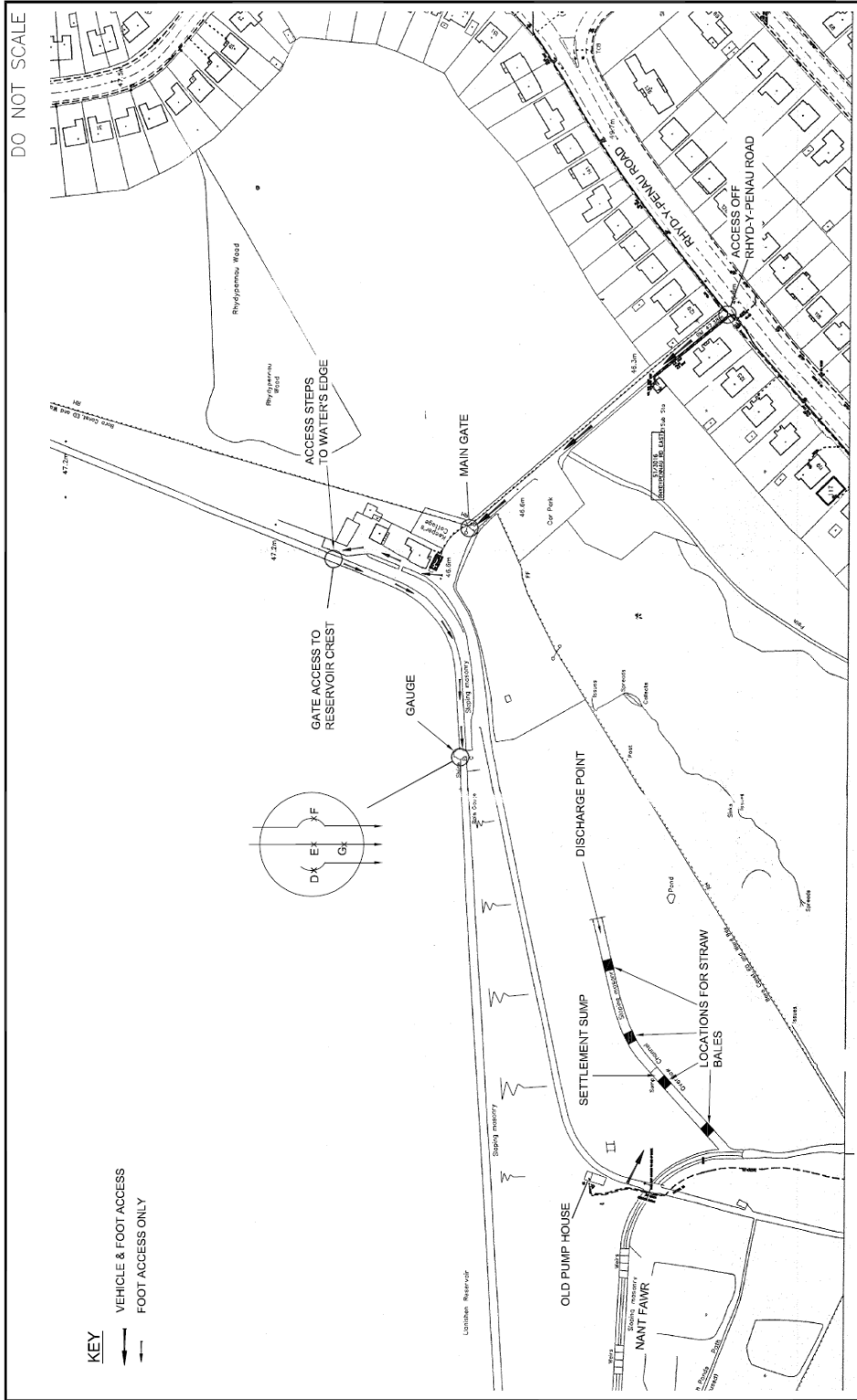
"*emissions of substances not controlled by emission limits*" means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

"*groundwater*" means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

"*quarter*" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"*year*" means calendar year ending 31 December.





A3

LLANISHEN RESERVOIR  
 EXTRACT FROM WESTERN POWER DISTRIBUTION UTILITY PLAN  
 SHOWING ACCESS TO WORK AREAS (NTS)



END OF PERMIT