

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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Dŵr Cymru Cyfyngedig

Lamphey Wastewater Treatment Works  
Lamphey  
Pembrokeshire  
SA71 5PB

Variation application number  
BG0022401/V002

Permit number  
BG0022401

# Lamphey Wastewater Treatment Works

## Permit number BG0022401

### Introductory note

**This introductory note does not form a part of the notice**

The following notice gives notice of the variation and consolidation of an environmental permit.

The permit has been varied to increase the Dry Weather Flow volume from 78m<sup>3</sup>/day to 134m<sup>3</sup>/day due to an increase of the Population Equivalent that the Wastewater Treatment Works serves. The variation will also include a reduction in the Total Suspended Solids limit from 58mg/l to 37.5mg/l as a 95 percentile Look up Table limit.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number. It is not backdated before 6 April 2010.

| <b>Status log of the permit</b>                                   |                         |  |
|---|-------------------------|--|
| <b>Description</b>  | <b>Date</b>             | <b>Comments</b>  |
| Application<br>BG0022401/V002<br>(variation and<br>consolidation) | Duly made<br>06/06/2014 | Application to increase the DWF<br>volume and update the permit to<br>modern conditions. |
| Variation determined<br>BG0022401                                 | 29/09/2015              | Varied and consolidated permit<br>issued in modern condition format.                     |

End of introductory note

## Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

**permit number**  
**BG0022401**

**issued to:**  
**Dŵr Cymru Cyfyngedig** (“the operator”)

whose registered office is

**Pentwyn Road**  
**Nelson**  
**Treharris**  
**Mid Glamorgan**  
**CF46 6LY**

company registration number **02366777**

to operate a water discharge activity at

**Lamphey Wastewater Treatment Works**  
**Lamphey**  
**Pembrokeshire**  
**SA71 5PB**

to the extent set out in the schedules.

The notice shall take effect from 29/09/2015

Name

Date

**Emily Roe**

**29/09/2015**

Authorised on behalf of Natural Resources Wales

### **Schedule 1**

The following conditions were varied as a result of the application made by the operator:

Table S3.1 in Schedule 3 is being amended to reflect the increase in Dry Weather Flow from 78m<sup>3</sup>/day to 134m<sup>3</sup>/day.

Table S3.4 in Schedule 3 is being amended to reflect the change to the effluent sample point NGR to SN 01883 00803.

All other conditions have been varied as a result of a Natural Resources Wales initiated variation.

### **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

**Permit number**

**BG0022401**

This is the consolidated permit referred to in the variation and consolidation notice for application BG0022401/V002 authorising,

**Dwr Cymru Cyfyngedig** (“the operator”),

whose registered office is

**Pentwyn Road  
Nelson  
Treharris  
Mid Glamorgan  
CF46 6LY**

company registration number 02366777

to operate a water discharge activity at

**Lamphey Wastewater Treatment Works  
Lamphey  
Pembrokeshire  
SA71 5PB**

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

| Name             | Date              |
|------------------|-------------------|
| <b>Emily Roe</b> | <b>29/09/2015</b> |

Authorised on behalf of Natural Resources Wales

# Conditions

## 1 Management

### 1.1 General management

1.1.1 The operator shall manage and operate the activity:

- (a) in accordance with a written management system that identifies and minimises risks of pollution so far as is reasonably practicable, including those risks 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 the permit.

## 2 Operations

### 2.1 Permitted activities

2.1.1 The only activity authorised by the permit is the activity specified in schedule 1 table S1.1.

### 2.2 The site

2.2.1 The discharge activity shall take place at the discharge point marked on the site plan at schedule 7 to this permit, and as listed in table S3.2; and, the operating technique that is the subject of conditions prefixed by 2.3 shall be applied at the location shown, or otherwise described, in schedule 7.

### 2.3 Operating techniques

2.3.1 The operator shall comply with the relevant requirements of the Urban Waste Water Treatment (England and Wales) Regulations 1994.

## 3 Emissions and monitoring

### 3.1 Emissions to water

3.1.1 The limits given in schedule 3 table S3.1 shall not be exceeded.

3.1.2 The limits in schedule 3 table S3.1 to which this condition applies may be exceeded where: in any series of samples of the discharge taken at regular but randomised intervals in any period of twelve consecutive months as listed in column 1 of schedule 3A, no more than the relevant number of samples, as listed in column 2 of schedule 3A, exceed the applicable limit for that relevant parameter.

### 3.1.3

- (a) For the emission limits in schedule 3 table S3.1 to which this condition applies, no sample of the discharge taken at a time when unusual weather conditions are adversely affecting the operation of the waste water treatment works, shall be taken into account in deciding whether or not the emission limit has been complied with.
- (b) On any occasion where unusual weather conditions adversely affect the operation of the waste water treatment works, the operator shall use its best endeavours to mitigate that adverse effect.
- (c) For any sample of the discharge taken to be considered for the purposes of (a) above, the operator shall notify Natural Resources Wales in writing within 14 days of becoming aware that an emission limit has been exceeded. That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.

### 3.1.4

- (a) If the measured Dry Weather Flow exceeds the permitted Dry Weather Flow limit then the operator shall, as soon as is practicable, investigate the reasons for the exceedance. The operator shall report the reasons for the exceedance to Natural Resources Wales and the steps that it proposes to take to restore compliance. An exceedance of the Dry Weather Flow limit shall not be recorded as a failure if the operator takes appropriate steps to restore compliance;
- (b) If the measured Dry Weather Flow exceeds the permitted Dry Weather Flow limit because of unusual rainfall during the 12-month period, then it will not be recorded as a failure of the Dry Weather Flow limit. For the purposes of this condition, unusual rainfall shall mean rainfall that causes significantly higher sewage flows during the three-month period that normally records the lowest flows;
- (c) The permitted Dry Weather Flow limit is set at the operator's planned annual 80% exceeded flow;
- (d) For compliance with this permit, the measured Dry Weather Flow is that total daily volume that is exceeded by 90% of the recorded measured total daily volume values in any period of 12 months; and
- (e) For unusual rainfall to be considered, the operator shall notify Natural Resources Wales and provide supporting evidence as part of the normal specified data returns.

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

- 3.2.1 The operator shall take appropriate measures to minimise so far as reasonably practicable the polluting effects of the emissions of substances in the discharge not controlled by emission limits (excluding odour).

### **3.3 Monitoring**

- 3.3.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.4;
  - (b) inlet quality specified in tables S3.1 and S3.4.
- 3.3.2 The operator shall maintain records of all monitoring required by this permit.
- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.3.4 An Accessible sample point shall be provided and maintained to enable sampling/monitoring of emissions to be carried out at the monitoring point specified in table [S3.4] of schedule 3 and shown marked on the site plan in schedule 7.
- 3.3.5 The monitoring programme for the parameters subject to schedule 3B shall be:
- (a) pre-scheduled to cover a calendar year and the programme recorded before the start of a calendar year sample period; and
  - (b) spot samples collected at approximately equal intervals during the year, including samples from different days of the week and different times. Approximately 10% of samples should be outside the normal sampling window which is 9am-3pm, Monday to Friday.
- 3.3.6 After becoming aware, or following a notification that a sample has not been taken on the schedule 3B Monitoring Programme pre-scheduled date, or is lost, or a result for that sample cannot be reported, the operator shall record the details and reschedule the sample.

## **4 Information**

### **4.1 Records**

- 4.1.1 All records required to be made by schedule 3, 4 and 5 to 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 Natural Resources Wales, for at least 6 years from the date when the records were made.
- 4.1.2 The operator shall maintain convenient access, in either electronic or hard copy, to the records, plan and management system required to be maintained by this permit.

### **4.2 Reporting**

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 Within the time period after the end of the reporting period specified in schedule 4 table S4.1 the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and monitoring points specified in schedule 4 table S4.1;
  - (b) [for the reporting periods specified in schedule 4 table S4.1 and] using the forms specified in schedule 4 table S4.2; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

### **4.3 Notifications**

- 4.3.1 Natural Resources Wales shall be notified as soon as reasonably practicable following detection, within the site of the regulated facility 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; and
  - (b) any breach of a limit specified in schedule 3 table S3.1 including individual exceedances of limits which are covered by condition 3.1.2.

Any other significant adverse environmental effects, which may have been caused by the activity, shall also be notified to Natural Resources Wales as soon as reasonably practicable following detection.

- 4.3.2 The information provided under condition 4.3.1 shall be supported by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling specified in schedule [3B], the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales 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 of the activity by increasing the concentration of, or the addition of, or allowing the introduction of, a substance to the activity to an extent that the operator considers could have a significant adverse environmental effect on the receiving waters, and the change is not permitted by emission limits specified within schedule 3 table S3.1 or the subject of an application for approval under the EP Regulations or under the terms of this permit:
- (a) Natural Resources Wales shall be notified in writing at least 14 days before the increase or addition or allowing the introduction; and
  - (b) the notification shall contain a description of the proposed change.

## **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 “as soon as reasonably practicable”, in which case it may be provided by telephone.

# Schedule 1 – Operations

| <b>Table S1.1 Activities</b>                             |  |
|--|--|
| <b>Description of activity</b>                           | <b>Limits of specified activity</b>  |
| Discharge secondary treated sewage effluent via Outlet 1 | The discharge derives from an agglomeration with a population equivalent of less than 2,000. |

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

Schedule 2 not in use.

## Schedule 3 – Emissions and monitoring

| <b>Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements</b> |   |  |                                    |                                 |                             |  |
|--|---|--|------------------------------------|---------------------------------|-----------------------------|--|
| <b>Effluent and discharge point</b>  | <b>Parameter</b>                                  | <b>Limit (including unit)</b>                                    | <b>Reference Period</b>            | <b>Limit of effective range</b> | <b>Monitoring frequency</b> | <b>Compliance Statistic</b>                      |
| Secondary treated sewage effluent via Outlet 1   | Dry weather flow                                  | 134m <sup>3</sup> /day   | Total daily volume                 | N/A                             | Continuous                  | Condition 3.1.4 applies                          |
|  | 15-minute instantaneous or averaged flow          | No limit set. Record as l/s                                      | 15 minute                          | N/A                             | Continuous                  | N/A  |
|  | ATU-BOD as O <sub>2</sub>                         | 25mg/l   | Instantaneous (spot sample)        | N/A                             | As specified in schedule 3B | Look up table (Conditions 3.1.2 and 3.1.3 apply) |
|  | Ammoniacal nitrogen (expressed as N)              | 5mg/l  | Instantaneous (spot sample)        | N/A                             | As specified in schedule 3B | Look up table (Conditions 3.1.2 and 3.1.3 apply) |
|  | Suspended solids (measured after drying at 105°C) | 37.5mg/l   | Instantaneous (spot sample)        | N/A                             | As specified in schedule 3B | Look up table (Conditions 3.1.2 and 3.1.3 apply) |
|  | Visible oil or grease                             | No significant trace present so far as is reasonably practicable | Instantaneous (visual examination) | N/A                             | N/A                         | No significant trace (Condition 3.1.3 applies)   |

| <b>Table S3.2 Discharge point</b> |                        |                            |                        |
|-----------------------------------|------------------------|----------------------------|------------------------|
| <b>Effluent Name</b>              | <b>Discharge Point</b> | <b>Discharge point NGR</b> | <b>Receiving water</b> |
| Secondary treated sewage effluent | Outlet 1               | SN 01758 00900             | Pembroke River         |

| <b>Table S3.4 Monitoring point</b>             |                        |                             |                                   |
|--|------------------------|-----------------------------|-----------------------------------|
| <b>Effluent and discharge point</b>            | <b>Monitoring type</b> | <b>Monitoring point NGR</b> | <b>Monitoring point reference</b> |
| Secondary treated sewage effluent via Outlet 1 | Effluent Sampling      | SN 01883 00803              | Final Effluent Sample Point       |



## Schedule 3A - Look up table

| <b>Look up table</b>                                      |  |
|---|--|
| <b>Number of samples taken in any period of 12 months</b> | <b>Maximum number of samples permitted to exceed limit for given parameter</b> |
| 4-7   | 1  |
| 8-16  | 2  |
| 17-28   | 3  |
| 29-40   | 4  |
| 41-53   | 5  |
| 54-67   | 6  |
| 68-81   | 7  |
| 82-95   | 8  |
| 96-110  | 9  |
| 111-125   | 10   |
| 126-140   | 11   |
| 141-155   | 12   |
| 156-171   | 13   |
| 172-187   | 14   |
| 188-203   | 15   |
| 204-219   | 16   |
| 220-235   | 17   |
| 236-251   | 18   |
| 252-268   | 19   |
| 269-284   | 20   |
| 285-300   | 21   |
| 301-317   | 22   |
| 318-334   | 23   |
| 335-350   | 24   |
| 351-365   | 25   |

## Schedule 3B - Opra tier 3 sampling frequency

| Parameter    | 'Normal frequency' of samples per year | Reduced Sampling frequency after 12 consecutive months of numeric permit compliance, samples per year or pro rata over the remainder of a year | On numeric permit failure return to normal frequency as soon as reasonably practicable, samples per 12 months | Out of hours samples                               |
|--------------|--|--|---|--|
| Sanitary     | 24                                     | 12   | 24  | For 24 samples<br>2 out of hours samples per annum |
| Non sanitary | 12                                     | 12   | 12  | For 12 samples<br>1 out of hours sample per annum  |

## Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

| <b>Table S4.1 Reporting of monitoring data</b>  |                                   |  |   |
|---|-----------------------------------|--|---|
| <b>Parameter</b>  | <b>Monitoring point reference</b> | <b>Reporting period</b>  | <b>Period begins</b>                    |
| Dry Weather Flow (daily flows total)  | Final Effluent Sample Point       | Annually<br>Report to be submitted within 2 months of the end of the calendar year   | 1 January                               |
| 15-minute flow  | Final Effluent Sample Point       | Reports to be provided to Natural Resources Wales upon request<br>Report to be submitted within 28 days unless otherwise specified in writing by Natural Resources Wales | Upon request by Natural Resources Wales |
| Operator Self Monitoring - ATU-BOD as O <sub>2</sub> , ammoniacal nitrogen (expressed as N), suspended solids (measured after drying at 105°C)                | Final Effluent Sample Point       | Quarterly<br>Report to be submitted within 28 days   | 1st of month                            |
| Operator Self Monitoring summary report - ATU-BOD as O <sub>2</sub> , ammoniacal nitrogen (expressed as N), suspended solids (measured after drying at 105°C) | Final Effluent Sample Point       | Annually<br>Report to be submitted within 2 months of the end of the calendar year   | 1 January                               |

| <b>Table S4.2 Reporting forms</b>   |   |
|---|---|
| <b>Parameter</b>  | <b>Reporting format</b>   |
| Dry Weather Flow (daily flows total)  | WISKI electronic format specified by Natural Resources Wales  |
| 15-minute flow  | WISKI electronic format specified by Natural Resources Wales  |
| OSM - ATU-BOD as O <sub>2</sub> , ammoniacal nitrogen (expressed as N), suspended solids (measured after drying at 105°C) | Quarterly - Electronic format specified by Natural Resources Wales  |
| OSM - ATU-BOD as O <sub>2</sub> , ammoniacal nitrogen (expressed as N), suspended solids (measured after drying at 105°C) | Annually - Summary report of compliance with the monitoring programme specified in Table 3.1 and Schedule 3B in a format specified by Natural Resources Wales |

## 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                  | BG0022401                          |
| Name of operator               | Dŵr Cymru Cyfyngedig               |
| Location of Facility           | Lamphey Wastewater Treatment Works |
| Time and date of the detection |                                    |

|   |  |
|---|--|
| <b>(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</b> |  |
| <b>To be notified within 7 days of detection unless otherwise agreed in writing by Natural Resources Wales</b>  |  |
| 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  |  |
| Substance(s) potentially released/type or nature of sewage released   |  |
| Best estimate of the quantity or rate of release of substances and/or duration of discharge   |  |
| Best estimate of the environmental impact of the discharge  |  |
| 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 specified in schedule 3 table S3.1 (including individual exceedances of limits which are covered by condition 3.1.2)**

**The information specified below is to be notified to Natural Resources Wales as soon as reasonably practicable following detection.**

|  |                  |
|--|------------------|
| Monitoring point reference/<br>source      |                  |
| Self monitoring regime<br>(where relevant) | e.g. OSM         |
| Type of failure                            | e.g. LUT failure |
| Date of sample/event                       |                  |
| Parameter                                  |                  |
| Result and units                           |                  |
| Limit and units                            |                  |

**Part B – to be submitted as soon as reasonably practicable unless otherwise agreed in writing by Natural Resources Wales**

|  |  |
|--|--|
| 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/breach/exceedance   |  |
| 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 |  |
| <b>Name*</b>   |  |
| <b>Post</b>  |  |
| <b>Signature</b>   |  |
| <b>Date</b>  |  |

\* authorised to sign on behalf of the operator

## 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.

“appropriate measures” for the purposes of the emission of substances not controlled by emission limits condition (condition 3.2.1) do not require the operator to undertake treatment to a level beyond that specified in schedule 1 table S1.1, or to carry out routine monitoring for substances not controlled by emission limits.

“ATU-BOD as O<sub>2</sub>” means the biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allylthiourea).

“COD as O<sub>2</sub>” means the chemical oxygen demand (measured using the standard dichromate procedure).

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the permitted activities, which are not controlled by an emission limit.

“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.

“MCERTS” means Natural Resources Wales’ Monitoring Certification Scheme.

“minimum screen capacity flow” means the minimum flow passed through the screens to the outfall when the screen bypass operates.

“Natural Resources Wales” means the Natural Resources Body for Wales established by article 3 of the Natural Resources Body for Wales (Establishment) Order 2012. The Natural Resources Body for Wales (Functions) Order 2013 transferred the relevant functions of the Countryside Council for Wales, and functions of the Environment Agency and the Forestry Commission in Wales to the Natural Resources Body for Wales.

“overflow setting” means the minimum flow passed forward to the continuation sewer when the overflow operates.

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

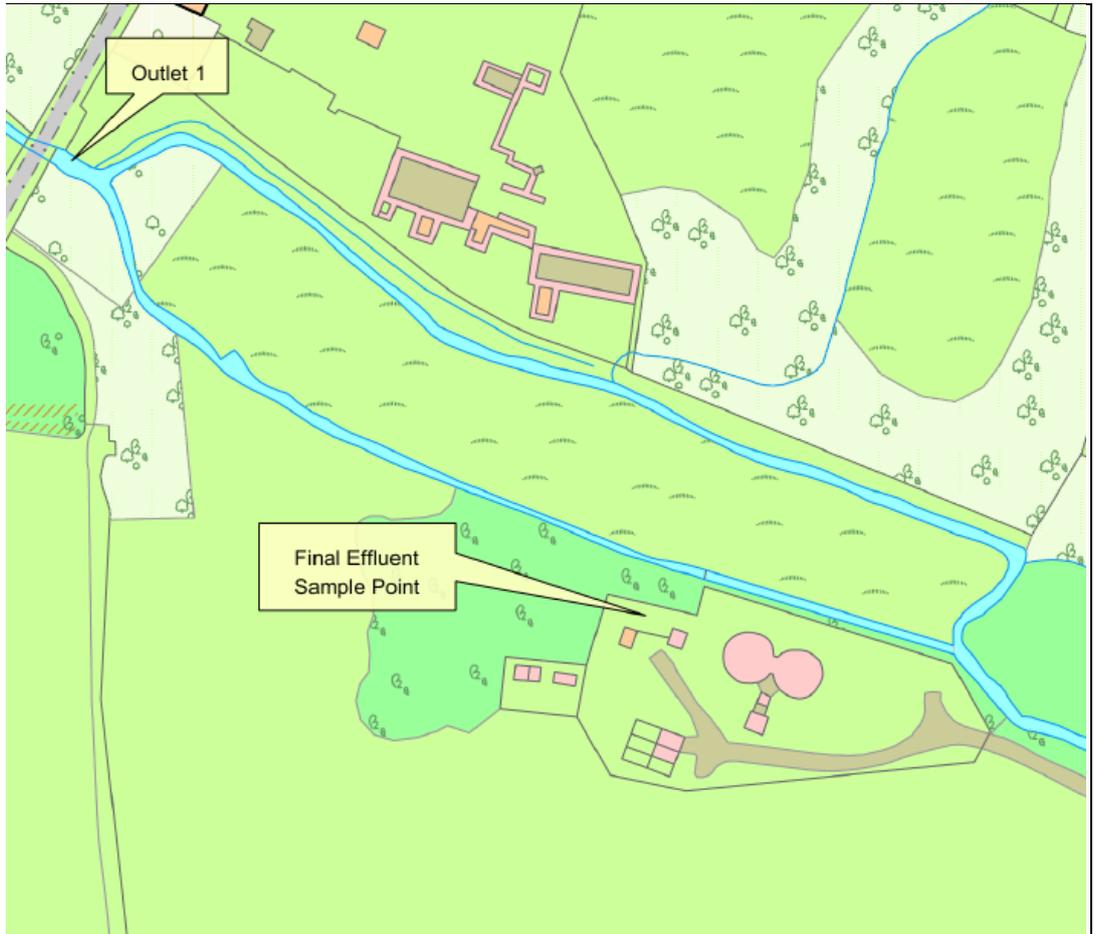
“significant pollution” means a category 1 or category 2 incident indicated by the Common Incident Classification Scheme (CICS).

“unusual weather conditions” includes, but is not limited to:

- low ambient temperatures, or the freezing of mechanical equipment in the works;
- significant snow deposits;
- tidal or fluvial flooding;
- weather conditions causing unforeseen loss of power supply to the sewage treatment that could not be ameliorated by the reasonable provision and operation of standby generation facilities.

“year” means calendar year ending 31 December.

## Schedule 7 – Site plan



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END OF PERMIT