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# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

**Anglian Water Services Limited** 

Harlaxton Water Recycling Centre Harlaxton Manor Harlaxton Grantham Lincolnshire NG32 1AG

#### Variation number

ANNNF1093/V003

#### Permit number

ANNNF1093

# Harlaxton Water Recycling Centre Permit number ANNNF1093

# Introductory note

#### This introductory note does not form a part of the notice.

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

This permit variation and consolidation is to reflect asset improvements that have been agreed between the Environment Agency and Anglian Water Services Limited as part of the National Environment Programme. This permit requires the operator to install overflow operation monitoring into storm storage, MCERTS flow monitoring to record flow passed forward and discharge operation monitoring on the settled storm discharge. This should be completed by the agreed delivery date of 31st March 2021 for U\_MON3 overflow operation monitoring into storm storage and discharge operation monitoring on the settled storm discharge and 31st March 2021 for U\_MON4 MCERTS flow passed forward flow monitoring.

It also adds limits for phosphorus and iron which will come into effect by the agreed delivery date of 22/12/2024 and updates the permit with new conditions relating to Dry Weather Flow (DWF).

Additionally, as a result of a spill frequency reduction investigation, an increase in storm tank capacity will be completed by the agreed delivery date of 31st March 2025.

The unique ID for the overflow giving rise to the settled storm discharge is Anw0570.

We consider that in reaching our decision to vary the permit we have taken into account all relevant considerations and legal requirements. We are satisfied that the permit will ensure that a high level of protection is provided for the environment and human health and that the activities will not give rise to any significant pollution of the environment or harm to human health.

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

Status log of the permit		
Description	Date	Comments
Permit determined ANNNF1093	06/12/1989	Permit issued to Anglian Water Authority
Variation determined ANNNF1093	15/01/1990	Amendment of dates
Permit modified ANNNF1093	24/09/2009	OSM (Tier 2) by schedule
Permit modified ANNNF1093	30/03/2010	Amendment to DWF and flow measurement wording by schedule
Variation determined ANNNF1093	31/03/2010	Amendment to the DWF limit

Status log of the permit					
Description	Date	Comments			
Variation determined ANNNF1093/V001	03/03/2015	Amendment to the DWF limit			
ANNNF1093/V002	25/02/2019	Variation of permit initiated to incorporate improvements delivered under AMP6			
Environment Agency initiated variation ANNNF1093/V003	18/10/2024	Variation of permit initiated under PR19 review programme to incorporate improvements to be delivered under AMP7			
Variation determined ANNNF1093	13/11/2024	Varied and consolidated permit issued in modern condition format.			

End of introductory note

#### Notice of variation and consolidation

## The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

#### **Permit number**

ANNNF1093

#### Issued to

**Anglian Water Services Limited** ("the operator")

whose registered office is

Lancaster House
Lancaster Way
Ermine Business Park
Huntingdon
Cambridgeshire
United Kingdom
PE29 6XU

company registration number 02366656

to operate water discharge activities at

Harlaxton Water Recycling Centre Harlaxton Manor Harlaxton Grantham Lincolnshire NG32 1AG

to the extent set out in the schedules.

The notice shall take effect from 22/12/2024

Name	Date
Amie Sheedy	13/11/2024

Authorised on behalf of the Environment Agency

#### Schedule 1

Only conditions 2.4.1, 3.1.4, 3.1.5, 3.1.6, 3.1.7, 3.3.7, 3.3.9, 3.3.10, 3.3.11, 4.3.6, Table S1.1, Table S3.1, Table S3.2, Table S3.3, Table S3.4, schedule 3B, schedule 3D, Table S4.1, Table S4.2, schedule 6 and schedule 7 have been varied by the consolidated permit ANNNF1093 as a result of an Environment Agency initiated variation.

## Schedule 2 - consolidated permit

Consolidated permit issued as a separate document.

### **Permit**

# The Environmental Permitting (England and Wales) Regulations 2016

#### Permit number

#### **ANNNF1093**

This is the consolidated permit referred to in the variation and consolidation notice for variation ANNNF1093/V003 authorising,

#### Anglian Water Services Limited ("the operator"),

whose registered office is

Lancaster House
Lancaster Way
Ermine Business Park
Huntingdon
Cambridgeshire
United Kingdom

#### **PE29 6XU**

company registration number 02366656

to operate water discharge activities at

**Harlaxton Water Recycling Centre** 

**Harlaxton Manor** 

Harlaxton

Grantham

Lincolnshire

**NG32 1AG** 

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

Name	Date
Amie Sheedy	13/11/2024

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 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 activities authorised by the permit are the activities specified in schedule 1 table S1.1.

#### 2.2 The site

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

## 2.3 Operating techniques

- 2.3.1 For the activity A1 referenced in schedule 1, table S1.1 the operator shall comply with the relevant requirements of the Urban Waste Water Treatment (England and Wales) Regulations 1994.
- 2.3.2 For the discharge(s) specified in table S3.3:
  - (a) The discharge shall only occur when and only for as long as the flow passed forward is equal to or greater than the overflow setting indicated due to rainfall and/or snow melt.
  - (b) Off-line storm storage must be fully utilised before a discharge occurs. It shall only fill when the flow passed forward is equal to or greater than the overflow setting indicated due to rainfall and/or snow melt and shall be emptied and its contents returned to the continuation flow as soon as reasonably practicable. The minimum off-line storm storage required is specified in table S3.3.
  - (c) The discharge shall not be comminuted or macerated.
  - (d) Where a mechanically cleaned screen is installed, a telemetry alarm system shall be installed and maintained, as far as reasonably practicable, so as to give the operator immediate notification of a failure of the screen cleaning mechanism, unless otherwise agreed in writing by the Environment Agency. The operator shall take all appropriate measures to return the screen cleaning mechanism to normal operation as soon as reasonably practicable after receipt of notification of the failure.

2.3.3 For the activity A2 referenced in schedule 1, table S1.1 where the discharge results in unsatisfactory solid matter being visible in the receiving waters or on the banks or shoreline, in the vicinity of the outfall, the operator shall take all reasonable steps to collect and remove such matter as soon as reasonably practicable.

#### 2.4 Improvement programme

- 2.4.1 For the activity A2 referenced in schedule 1, table S1.1, the flow passed forward monitoring readings required by condition 3.3.1 and schedule 3 tables S3.1 and S3.4 must be taken every two minutes where:
  - (a) the overflow is directly pumped to a storm tank, unless otherwise agreed in writing by the Environment Agency; or
  - (b) the operator has received the written agreement of the Environment Agency to move to monitoring every two minutes from a specified date; or

From 31/03/2026, unless another date is agreed in writing by the Environment Agency, the flow passed forward monitoring readings required by condition 3.3.1 and schedule 3 tables S3.1 and S3.4 must be taken every two minutes unless the operator can demonstrate there are sufficient 15 minute readings to assess compliance with the flow passed forward limit in schedule 3 table S3.1.

# 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 the Environment Agency 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 The permitted Dry Weather Flow limit in schedule 3 table S3.1 is set at the operator's planned annual 80% exceeded daily volume discharged.
  - (a) For compliance purposes an exceedance shall be recorded for a calendar year only when the limit in effect on 31 December of that calendar year is exceeded by 90% or more of the 'good' recorded Total Daily Volumes in that calendar year.
  - (b) Up to and including 31 December 2025:

- (i) If an exceedance of the Dry Weather Flow limit is recorded in a calendar year then the operator shall, as soon as is reasonably practicable, investigate the reasons for the exceedance.
- (ii) The operator shall report the reasons for the exceedance to the Environment Agency and the steps that it proposes to take to restore compliance.
- (iii) An exceedance of the Dry Weather Flow limit shall not be recorded as a failure of the Dry Weather Flow limit in that calendar year if the operator takes appropriate steps to restore compliance.
- (c) From the 1 January 2026 the limit has been complied with in an assessment calendar year unless:
  - (i) the limit was exceeded in the compliance assessment calendar year, and;
  - (ii) two or more exceedances have occurred in the preceding 4 calendar years.

Only exceedances from a calendar year after 31 December 2024 shall be used.

- 3.1.5 The limits in schedule 3 table S3.1 to which this condition applies are assessed using any series of samples of the discharge taken at regular but randomised intervals in any period of twelve consecutive months.
- 3.1.6 The emission limits in schedule 3 table S3.1 to which this condition applies shall have been complied with if the lower bound 90% confidence interval calculated in accordance with schedule 3D is less than or equal to that emission limit.
- 3.1.7 At least 95% of all flow passed forward readings taken in any calendar year while the overflow to storm tanks is operating must be equal to or greater than 92% of the flow passed forward limit specified in schedule 3 table S3.1.
  - (a) For the purpose of this condition the following readings shall not be used in the assessment;
    - (i) data that is not 'good' data; or
    - (ii) the first flow reading after the start of each overflow event; or
    - (iii) readings taken when the overflow to the storm tank is operating to facilitate regular maintenance, non-routine planned maintenance or non-routine un-planned maintenance, subject to the written agreement of the Environment Agency; or
    - (iv) readings taken when the overflow to the storm tank is operating as a result of a discharge which another person has caused or knowingly permitted to be made into the sewer or the works, and the operator either was not bound to receive the discharge into the sewer or the works or was bound to receive it there subject to conditions which were not observed, and the operator could not reasonably have been expected to prevent the discharge into the sewer or works, subject to the written agreement of the Environment Agency.
  - (b) For any readings to be considered by the Environment Agency for the purposes of 3.1.7(a)(iii) above:
    - (i) the regular planned maintenance, non-routine planned maintenance or non-routine unplanned maintenance must not have resulted in a discharge from the storm tank(s); and
    - (ii) the storm tank(s) must have been emptied as soon as reasonably practicable and before any further overflow into them occurs; and
    - the operator must have pre-scheduled the regular maintenance and included it in a maintenance programme available for inspection upon request by the Environment Agency; and
    - (iv) the operator must have notified the Environment Agency in writing at least 5 working days before commencing any non-routine planned maintenance and, within 14 days of

- completing the non-routine planned maintenance, have submitted a full description of its impact on the operation of the storm tank(s) to the Environment Agency; and
- (v) the operator must have notified the Environment Agency before commencing any non-routine un-planned maintenance and, within 14 days of completing the non-routine un-planned maintenance, have submitted a full description of the work carried out and its impact on the operation of the storm tank(s) to the Environment Agency; and
- (vi) the non-routine un-planned maintenance was not required to be carried out due to the act or default of the operator, its agents, representatives, officers, employees or servants.
- (c) For any readings to be considered for the purposes of 3.1.7(a)(iv) above, the operator must have notified the Environment Agency as soon as reasonably practicable and must have used their best endeavours to minimise any adverse impact on the operation of the storm tanks(s).
- (d) Records demonstrating that the requirements of 3.1.7(a), (b) and (c) above have been met shall be maintained.

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

3.2.1 For the activity A1 referenced in schedule 1, table S1.1 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 the Environment Agency, 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;
- 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 specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.3.4 Accessible monitoring points shall be provided and maintained to enable the emissions monitoring programme and/or other monitoring to be carried out at the monitoring points specified in table \$3.40f 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.
- 3.3.7
- (a) Total Daily volumes shall be calculated from the average of the available 'good' 15 minute flow readings taken from midnight to midnight where;
  - Total Daily Volume (m3) =  $\{\text{Sum of 'good' readings (l/s) / number of 'good' readings} \ x \ \{86,400 \ (s) \ / \ 1000\}.$

- Where there are 87 or more 'good' 15 minute flow readings the Total Daily Volume shall be reported as 'good', where there are 1 86 'good' readings it shall be reported as 'suspect' and where there are no 'good' readings as 'missing'.
- (b) The operator shall record all failures of the flow measurement system and any other breaks in the flow record and the reasons for all issues, failures and breaks that lead to missing or suspect Total Daily Volume records and all steps taken to prevent a re-occurrence.
- (c) There shall be no more than 37 days and/or no more than 14 consecutive days with 'suspect' or 'missing' Total Daily Volumes in a calendar year, unless otherwise agreed in writing by the Environment Agency.
- (d) All 15 minute flow readings shall be flagged as 'good', 'suspect' or 'missing' using an appropriate methodology set out in the operator's flow monitoring quality management system.
- 3.3.8 For the activity A2 referenced in schedule 1, table S1.1 an event duration monitoring system shall be installed and maintained, as far as reasonably practicable so as to give the operator data available of discharge occurrence (start and stop) at the frequency defined in table S3.1.
- 3.3.9 The operator shall, for the flow passed forward and overflow operation monitoring required by condition 3.3.1 and schedule 3 table S3.1 to assess 'flow passed forward' limit compliance:
  - (a) have appropriate systems in place that allow them to detect and record all issues and failures of the monitoring systems, and any other breaks in the data; and
  - (b) flag all monitoring data as 'good', 'suspect' or 'missing' using an appropriate methodology set out in the operator's quality management system; and
  - (c) where 'good' flow or overflow operator monitoring data is not recorded for at least 90% of a day the operator shall, as far as is reasonably practicable, determine and record the reasons why and the steps taken to prevent a re-occurrence; and
  - (d) the operator shall take all reasonable measures to return the flow and/or overflow operation monitoring equipment to normal operation as soon as reasonably practicable after becoming aware of a failure.
- 3.3.10 For the flow and overflow operation monitoring required by condition 3.3.1 and schedule 3 table S3.1 to assess 'flow passed forward' compliance, and unless otherwise agreed in writing by the Environment Agency, there shall be:
  - (a) no more than 14 consecutive days in any calendar year where 'good' flow data are recorded for less than 90% of each day; and
  - (b) no more than 14 consecutive days in any calendar year where 'good' overflow operation data are recorded for less than 90% of each day; and
  - (c) no more than 37 days in any calendar year that do not have both 'good' flow data recorded for at least 90% of each day and 'good' overflow operation data recorded for at least 90% of each day.
- 3.3.11 The flow passed forward monitoring specified in schedule 3 table S3.1:
  - (a) shall be capable of recording the flow passed forward with a total uncertainty within +/-8% at the overflow setting specified in schedule 3 table S3.3; and
  - shall have its total uncertainty assessed as soon as reasonably practicable following MCERTS certification or recertification and in addition whenever a significant change occurs that may impact the total uncertainty; and
  - (c) all assessment reports confirming the total uncertainty shall be retained for at least six years and provided to the Environment Agency within 28 days unless otherwise agreed in writing by the Environment Agency.

#### 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 the Environment Agency, 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 the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 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 the Environment Agency, 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 The Environment Agency 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 the Environment Agency 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 the Environment Agency 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 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 For the activity A1 referenced in schedule 1, table S1.1 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) the Environment Agency 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.
- 4.3.6 For the activity A1 referenced in schedule 1, table S1.1 the operator shall inform the Environment Agency in writing of any change, or proposed change, to the population equivalent such as would make a material change to the application of the Urban Waste Water Treatment (England and Wales) Regulations 1994 and shall, on request, inform the Environment Agency in writing of the actual population equivalent.

## 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**

Table S1.1 Activities						
Activity reference	Description of activity	Limits of specified activity				
A1	Discharge of secondary treated sewage effluent with nutrient removal via FE Discharge Point	N/A				
A2	Discharge of settled storm sewage via Settled Storm Discharge Point	N/A				

# Schedule 2 – Waste types, raw materials and fuels

Schedule 2 not in use.

# Schedule 3 – Emissions and monitoring

Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
A1 Secondary treated sewage	Dry weather flow	300 m³/day	Total daily volume	N/A	Continuous	Condition 3.1.4 applies
effluent with nutrient removal via FE Discharge Point	15-minute instantaneous or averaged flow	No limit set. Record as I/s	15 minute	N/A	Continuous	N/A
	ATU-BOD as O <sub>2</sub>	20 mg/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)	35 mg/l	Instantaneous (spot sample)	N/A	As specified in schedule 3B	Look up table (Conditions 3.1.2 and 3.1.3 apply)
	Total phosphorus as P	0.6 mg/l	Instantaneous (spot sample)	N/A	As specified in schedule 3B	Rolling 12 month mean (Condition 3.1.3 and 3.1.5, 3.1.6 and schedule 3D apply)
	Total iron as Fe	4,000 µg/l	Instantaneous (spot sample)	N/A	As specified in schedule 3B	Look up table (Conditions 3.1.2 and 3.1.3 apply)
	Total iron as Fe	8,000 µg/l	Instantaneous (spot sample)	N/A	As specified in schedule 3B	Maximum (Condition 3.1.3 applies)

Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
	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)
A2 Settled storm sewage via Settled Storm Discharge	Suspended solids (measured after drying at 105°C)	200 mg/l	Instantaneous (spot sample)	N/A	N/A	Maximum (Condition 3.1.3 applies)
	Flow passed forward	9 l/s	15 minute except where 2 minute required by condition 2.4.1	N/A	Continuous 15 minute instantaneous or averaged flow except where 2 minute required by 2.4.1	Minimum Condition 3.1.7 applies
	Overflow operation (into storm storage) monitoring yes/no or start and end times	N/A	N/A	N/A	2 minute where yes/no or whenever overflow operates where start and end times	N/A
	Overflow operation (into storm storage) monitoring status (operational / not operational)	N/A	N/A	N/A	2 minute or whenever operational status changes	N/A
	Settled storm sewage discharge event duration monitoring (discharge / no discharge)	N/A	N/A	Condition 3.3.3 does not apply	15 minute until monitor is replaced. 2 minute once monitor is replaced.	N/A

Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
	Settled storm sewage discharge start and end times	N/A	N/A	Condition 3.3.3 does not apply	Whenever a discharge occurs	N/A
	Settled storm sewage discharge event duration monitoring status (operational / not operational)	N/A	N/A	Condition 3.3.3 does not apply	15 minute until monitor is replaced. 2 minute once monitor is replaced.	N/A

Table S3.2 Discharge points					
Effluent Name	Discharge Point	Discharge point NGR	Receiving water/Environment		
A1 Secondary treated sewage effluent with nutrient removal	FE Discharge Point	SK 8915 3313	Tributary of the Grantham Canal		
A2 Settled storm sewage	Settled Storm Discharge Point	SK 8915 3313	Tributary of the Grantham Canal		

Table S3.3a Storm sewage discharge settings Effective up to and including 30/03/2025					
Effluent(s) and discharge Description of discharge Overflow setting I/s Minimum storage capacity m³ (off-line)					
A2 Settled storm sewage via Settled Storm Discharge Point	Settled storm sewage	9	112		

Table S3.3b Storm sewage discharge settings Effective from 31/03/2025					
Effluent(s) and discharge point(s)  Description of discharge Overflow setting I/s  Minimum storage capacity m³ (off-line)					
A2 Settled storm sewage via Settled Storm Discharge Point	Settled storm sewage	9	131		

Table S3.4 Monitoring po	Table S3.4 Monitoring points					
Effluent(s) and discharge point(s)	Monitoring type	Monitoring point NGR	Monitoring point reference			
A1 Secondary treated sewage effluent with nutrient removal via FE Discharge Point	Effluent sampling	SK 8915 3309	FE Sample Point (Monitoring point to be appropriately labelled).			
	MCerts flow monitoring	SK 8914 3301	MCerts Flow Monitor (Monitoring point to be appropriately labelled).			
A2 Settled storm sewage via Settled Storm Discharge Point	Effluent sampling	SK 8912 3303	Settled Storm Sample Point (Monitoring point to be appropriately labelled).			
	Flow passed forward monitoring	SK 8914 3301	Flow Passed Forward Monitor (Monitoring point to be appropriately labelled).			
	Overflow operation (into storm storage) monitoring	SK 8914 3301	Overflow Operation Monitor (Monitoring point to be appropriately labelled).			

Table S3.4 Monitoring points			
Effluent(s) and discharge point(s)	Monitoring type	Monitoring point NGR	Monitoring point reference
	Event duration monitoring	SK 8912 3303	Settled Storm EDM (Monitoring point to be appropriately labelled).

# Schedule 3A - Look up table

Maximum number of samples permitted to exceed limit for given parameter
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# **Schedule 3B - OSM 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 limit failure return to normal frequency as soon as reasonably practicable, samples per 12 months <sup>1</sup>	Out of hours samples
Sanitary	24	12	24	For 24 samples 2 out of hours samples per annum
Non sanitary	12	12	12	For 12 samples 1 out of hours sample per annum

<sup>&</sup>lt;sup>1</sup>For UV efficacy monitoring use sanitary frequency and increase following failure of UV requirements only.

# Schedule 3D – Rolling 12 month mean assessment methodology and t-values

Rolling 12 month mean compliance assessment method for site specific phosphorus limits (not UWWTR)

Use concentrations from the pre-scheduled samples taken in any period of 12 consecutive months unless a fixed 12-month period is specified by the permit.

- Take the log10 value of all P concentrations in the data set. For a zero value, take the log10 value of the minimum detection limit of the analytical method used. Treat less thans or greater thans as face value.
- 2. Calculate the mean of the log10 values.
- 3. Calculate the standard deviation of the log10 values.
- 4. Calculate the lower confidence interval using the formula lower confidence interval = mean (t x standard error of mean).

#### Where:

- t is derived from the values of t table for n-1 degrees of freedom, where n is the number of samples
- the standard error of the mean is the standard deviation of the dataset  $\div \sqrt{n}$ .
- 5. Antilog the lower confidence interval.

If the lower bound confidence interval exceeds the permit limit, then we are 95% confident that the limit has been exceeded and a failure is recorded.

Values of t		
Degrees of freedom	t for 90% confidence interval	
2	2.920	
3	2.353	
4	2.132	
5	2.015	
6	1.943	
7	1.895	
8	1.860	
9	1.833	
10	1.813	
11	1.796	
12	1.782	
13	1.771	
14	1.761	
15	1.753	
16	1.746	
17	1.740	
18	1.734	
19	1.729	
20	1.725	
25	1.708	
30	1.697	
35	1.690	
40	1.684	
50	1.676	
60	1.671	
70	1.667	
80	1.664	
90	1.662	
100	1.660	
1,000	1.646	

# Schedule 4 – Reporting

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

Parameter	Monitoring point reference	Reporting period	Period begins
Dry Weather Flow (daily flows total)	MCerts Flow Monitor	Annually Report to be submitted within 2 months of the end of the calendar year	1 January
15-minute flow	MCerts Flow Monitor	Reports to be provided to the Environment Agency upon request Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	Upon request by the Environment Agency
Operator Self Monitoring - ATU-BOD as O <sub>2</sub> , suspended solids (measured after drying at 105°C), total phosphorus as P, total iron as Fe.	FE Sample Point	Quarterly Report to be submitted within 28 days	1st of month
Operator Self Monitoring summary report	FE Sample Point	Annually Report to be submitted within 2 months of the end of the calendar year	1 January
Flow passed forward monitoring	Flow Passed Forward Monitor	Reports to be provided to the Environment Agency upon request Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	Upon request by the Environment Agency

Table S4.1 Reporting of monitoring data			
Parameter	Monitoring point reference	Reporting period	Period begins
Overflow operation (into storm storage) yes/no or start and end times	Overflow Operation Monitor	Reports to be provided to the Environment Agency upon request Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	Upon request by the Environment Agency
Overflow operation (into storm storage) monitoring status (operational / not operational)	Overflow Operation Monitor	Reports to be provided to the Environment Agency upon request Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	Upon request by the Environment Agency
Flow passed forward and overflow operation monitoring annual report	Flow Passed Forward Monitor Overflow Operation Monitor	Annually Report to be submitted within 2 months	1 January
Settled storm sewage discharge start and end times	Settled Storm EDM	Reports to be provided to the Environment Agency upon request Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	Upon request by the Environment Agency
Settled storm sewage discharge start and end times	Settled Storm EDM	Annually Report to be submitted within 2 months	1 January
Settled storm sewage discharge event duration monitoring status (operational / not operational)	Settled Storm EDM	Annually Report to be submitted within 2 months	1 January

Table S4.2 Reporting forms			
Parameter	Reporting format		
Dry Weather Flow (daily flows total)	WISKI electronic format specified by the Environment Agency		
15-minute flow	WISKI electronic format specified by the Environment Agency		
OSM - ATU-BOD as O <sub>2</sub> , suspended solids (measured after drying at 105°C), total phosphorus as P, total iron as Fe	Quarterly - Electronic format specified by the Environment Agency		
Operator Self Monitoring summary report	Annually - Summary report of compliance with the monitoring programme specified in table S3.1 and schedule 3B in a format specified by the Environment Agency		
Flow passed forward monitoring	Electronic format specified by the Environment Agency		
Overflow operation (into storm storage) yes/no or start and end times	Electronic format specified by the Environment Agency		
Overflow operation (into storm storage) monitoring status (operational / not operational)	Electronic format specified by the Environment Agency		
Flow passed forward and overflow operation monitoring annual report	Annual report format as specified by the Environment Agency		
Settled storm sewage discharge start and end times	Form as agreed in writing by the Environment Agency		
Settled storm sewage discharge start and end times	Annual summary report or other form as agreed in writing by the Environment Agency  Number of and total duration of counted spills for all spills.		
Settled storm sewage discharge event duration monitoring status (operational / not operational)	Annual summary report or other form as agreed in writing by the Environment Agency  Percentage of time in the reporting period that the event duration monitoring equipment was operational.		

# 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

any malfunction, breakdown or failure of equipment or techniques, ince not controlled by an emission limit which has caused, is pollution
tection unless otherwise agreed in writing by the Environment

(b) Notification requirements for individual exceedances of limit		limit specified in schedule 3 table S3.1 (including red by condition 3.1.2)
The information specified below practicable following detection		to the Environment Agency as soon as reasonably
Monitoring point reference/ source	е	
Self monitoring regime (where relevant)	e.g. OSM	
Type of failure	e.g. LUT failure	LUT exceedance/upper tier/other
Date of sample/event		
Parameter		
Result and units		
Limit and units		
unless otherwise ag	reed in wri	on as reasonably practicable ting by the Environment Agency
Any more accurate information or notification under Part A.	n the matters for	
Measures taken, or intended to b prevent a recurrence of the incident/breach/exceedance	e taken, to	
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		

Name*	
Post	
Signature	
Date	

<sup>\*</sup> 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.

For the activity A1 referenced in schedule 1, table S1.1 "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).

"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 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"flow passed forward" for the purposes of conditions 2.3.2 and 3.1.1 and the definition of "overflow setting" means, the rate of flow (litres per second) of the waste water arriving at the overflow from its upstream collection system and passed forward to the continuation flow. It does not include any flows that have already been passed forward by the overflow and are reintroduced to the incoming flow upstream of the overflow from any point downstream of it.

"good flow data for at least 90% of each day" means at least 87 fifteen minute or 648 two minute flow readings are flagged as good in a day.

"good overflow operation data for at least 90% of each day" means at least 648 two minute overflow operation readings are flagged as good or the overflow operation duration monitor is operational for at least 1,296 minutes in a day.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"monitoring frequency" as used in Table S3.1 in the context of Event Duration Monitoring is the temporal interval at which a change of state between no discharge and discharge is to be detected.

"non-routine planned maintenance" means maintenance, inspection, refurbishment, or replacement of plant and equipment carried out in accordance with a documented maintenance plan, which is foreseeable and can be planned at least 5 working days in advance.

"non-routine un-planned maintenance" means extra-ordinary maintenance to carry out inspection, refurbishment, or replacement of plant and equipment that is unforeseeable and cannot be planned at least 5 working days in advance.

"overflow" for the purposes of schedule 7, means any weir or orifice or other means via which flow in excess of its overflow setting is diverted from the continuation sewer when it is caused by rainfall and or snowmelt.

"overflow setting" means the minimum flow passed forward to the continuation flow when the overflow operates.

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

"regular planned maintenance" means scheduled maintenance, inspection, refurbishment, or replacement of plant and equipment carried out periodically and in accordance with a documented maintenance plan, it does not have to take place on specified dates.

"sanitary parameters for OSM sampling" means ATU-BOD as O<sub>2</sub>, Ammoniacal nitrogen (expressed as N), Suspended solids (measured after drying at 105°C) and COD as O<sub>2</sub>.

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

"spill" one or more overflow events within a period of 12 hours or less will be considered to be one spill, one or more overflow events extending over a period of greater than 12 hours up to 36 hours will be considered to be 2 spills. Each subsequent 24 hour duration counts as 1 additional spill and the whole of the 24 hour block is included.

"total uncertainty" means the combined (total) uncertainty of the flow rate measurement due to the flow monitoring installation, as determined by an MCERTS inspector, and uncertainties induced between the overflow and the flow monitor as determined by the operator. Allowances for time delays in flow response through the WwTW are taken into account by condition 3.1.7.

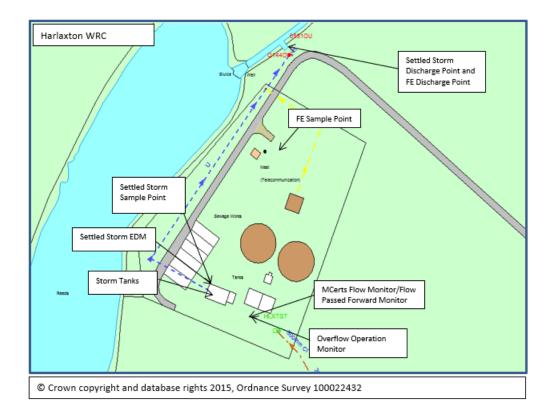
"unusual weather conditions" includes, but is not limited to:

- 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.

"Urban Waste Water Treatment (England and Wales) Regulations 1994 (UWWTR)" means Urban Waste Water Treatment (England and Wales) Regulations 1994 SI 2841 and the words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"year" means calendar year ending 31 December.

# Schedule 7 – Site plan



**END OF PERMIT**