

# Notice of variation and consolidation with introductory note

## The Environmental Permitting (England & Wales) Regulations 2010

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United Utilities Water Limited

Rochdale WwTW  
Rochdale WwTW  
Roch Valley Way  
Rochdale  
OL11 4QH

### **Variation application number**

EPR/FP3638MU/V004

### **Permit number**

EPR/FP3638MU

# **Rochdale WwTW**

## **Permit number EPR/FP3638MU**

### **Introductory note**

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

Under the Environmental Permitting (England & Wales) Regulations 2010 (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.

This variation consolidates previous variations, includes a company name change the permit conditions have not been updated at the request of the applicant and the inclusion of a new odour control unit which will utilise an existing emission point.

This permit allows United Utilities Water Limited to operate an installation for the purpose of sludge treatment at Rochdale Wastewater Treatment Works (WwTW), Roch Valley Way, Rochdale OL11 4QH. The main WwTW site is located adjacent to the River Roch which is to the north of the site and flows from east to west around the WwTW site and the installation, with the Roch Valley Way Road found on the south western side of the installation. To the north east of the main site and installation the main amenity classification is a mixture of industrial usage and residential properties, likewise the south and east is bordered by residential properties.

The installation is located across the main WwTW in a diagonal direction and forms part of the wider WwTW site. The installation is spread from the north east to the south west of the main site. The installation receives sludge from both on-site and other off-site company operated wastewater treatment process. It is permitted to accept a maximum capacity of 720,000 wet tonnes per year of sludge.

The installation treatment processes consist of dewatering, screening, storage and odour control units. Following treatment via the dewatering processes the sludge is pumped to the holding tanks, where it is stored prior to being sent off-site for further treatment, either through being sent for recovery or for disposal.

The main point source emissions from the installation are to air and arise from the odour control units serving storage and treatment processes. There are no direct emissions to surface water or sewer, but run-off from the installation and effluent from the process is directed to the on-site, off-installation wastewater treatment works.

There is one protected habitat within 2 km of the installation, which is the Rochdale Canal (SAC and SSSI), located approximately 1150m away, however the installation is unlikely to have an impact at this habitat.

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.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application FP3638MU received	Duly made 30/11/06	
Additional information received	23/10/07	
Permit FP3638MU determined (Permit EPR/FP3638MU)	24/10/07	
Application EPR/FP3638MU/V002	Duly made 30/11/09	
Additional information on Directly Associated Activity	Request 08/04/10	Response received 08/04/10
OPRA Score clarification	09/06/10	
Schedule 5 response on general installation activities requested	22/04/10	Response received 11/06/10
Additional information including site plan received	23/06/10	
Agreed Table S4.8 odour controls	22/07/10	
Variation EPR/FP3638MU/V002 issued	23/07/10	
Agency variation determined EPR/FP3638MU/V003	15/01/14	Agency variation to implement the changes introduced by IED
Application EPR/FP3638MU/V004 (variation and consolidation)	Duly Made 24/09/14	Additional information received.
Application EPR/FP3638MU/V004 (variation and consolidation)	17/12/14	Determined

End of introductory note

# Notice of variation and consolidation

## The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

### Permit number

EPR/FP3638MU

### Issued to

United Utilities Water Limited (“the operator”)

whose registered office is

**Haweswater House  
Lingley Mere Business Park  
Lingley Green Avenue  
Great Sankey  
Warrington  
WA5 3LP**

company registration number 02366678

to operate a regulated facility at

**Rochdale WwTW  
Roch Valley Way  
Rochdale  
OL11 4QH**

to the extent set out in the schedules.

The notice shall take effect from 17/12/2014

Name	Date
A.J. Nixon	17 December 2014

Authorised on behalf of the Environment Agency

## **Schedule 1**

The following Table has been varied as a result of the application made by the operator:  
Tables 1.2 “Operating Techniques”.

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

## The Environmental Permitting (England and Wales) Regulations 2010

### Permit number

**EPR/FP3638MU**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/FP3638MU/V004 authorising,

**United Utilities Water Limited** (“the operator”),

whose registered office is

**Haweswater House  
Lingley Mere Business Park  
Lingley Green Avenue  
Great Sankey  
Warrington  
WA5 3LP**

company registration number 02366678

to operate an installation at

**Rochdale WwTW  
Roch Valley Way  
Rochdale  
OL11 4QH**

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

<b>Name</b>	<b>Date</b>
<b>A.J. Nixon</b>	<b>17 December 2014</b>

Authorised on behalf of the Environment Agency

# Conditions

## 1 Management

### 1.1 General management

1.1.1 The activities shall be managed and operated:

- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.

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.

### 1.2 Accidents that may cause pollution

1.2.1 The operator shall:

- (a) maintain and implement an accident management plan;
- (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
- (c) make any appropriate changes to the plan identified by a review.

### 1.3 Energy efficiency

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures by a review.

### 1.4 Efficient use of raw materials

1.4.1 The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every 4 years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any appropriate further measures identified by a review.

## 1.5 Avoidance, recovery and disposal of wastes produced by the activities

1.5.1. The operator shall:

- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
- (b) review and record at least every 4 years whether changes to those measures should be made; and
- (c) take any further appropriate measures identified by a review.

## 1.6 Site security

1.6.1. Site security measures shall prevent unauthorised access to the site, as far as practicable.

# 2. Operations

## 2.1 Permitted activities

2.1.1 The operator is authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

2.1.2 Where there are wastes on site that are not subject to this permit then the wastes subject to the activities authorised under condition 2.1.1, shall be clearly identified.

## 2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 4 to this permit.

## 2.3 Operating techniques

2.3.1 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 Agency.

2.3.2 No raw materials or fuels listed in schedule 3 table S3.1 shall be used unless they comply with the specifications set out in that table.

2.3.3 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 3 tables S3.2 and S3.3 ; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.
- (c) it is only processed in the activity specified in Table S1.1 of Schedule 1.

2.3.4 Records shall be kept of all waste accepted onto the site.

2.3.5 The Operator shall ensure that where waste produced at the Permitted Installation(s) is sent to a waste recovery or disposal facility, the facility in question is provided with the following information, prior to receipt of the waste:

- The nature of the process producing the waste



- The composition of the waste
- The handling requirements of the waste
- The hazard classification associated with the waste
- The waste code of the waste

2.3.6 The Operator shall ensure that where waste produced at the Permitted Installation(s) is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

## 2.4 Off-site conditions

There are no off-site conditions under this section.

## 2.5 Improvement programme

2.5.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Agency.

2.5.2 Except in the case of an improvement which consists only of a submission to the Agency, the operator shall notify the Agency within 14 days of completion of each improvement.

## 2.6 Pre-operational conditions

2.6.1 The operations specified in schedule 1 table S1.4B shall not commence until the measures specified in that table have been completed and approved by the Environment Agency.

## 2.7 Closure and decommissioning

2.7.1 The operator shall maintain and operate the activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.

2.7.2 The operator shall maintain a site closure plan which demonstrates how the activities can be decommissioned to avoid any pollution risk and return the site to a satisfactory state.

2.7.3 The operator shall carry out and record a review of the site closure plan at least every 4 years.

2.7.4 The site closure plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the activities or part thereof.

## 2.8 Site protection and monitoring programme

2.8.1 The operator shall, within 4 months of the issue of this permit, submit a site protection and monitoring programme.

2.8.2 The operator shall implement and maintain the site protection and monitoring programme and shall carry out and record a review of it at least every 4 years.

# 3. Emissions and monitoring

## 3.1 Emissions to water, air or land

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 4 tables S4.1, S4.2 and S4.3.

3.1.2 The limits given in schedule 4 shall not be exceeded.

## 3.2 Transfers off-site

3.2.1 Records of all the wastes sent off site from the activities, for either disposal or recovery, shall be maintained.

## 3.3 Fugitive emissions of substances

3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.3.2 Litter or mud arising from the activities shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been used to prevent or where that is not practicable to minimise, the litter and mud.

3.3.3 Litter or mud arising from the activities shall be cleared from affected areas outside the site as soon as practicable

3.3.4 All liquids, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

## 3.4 Odour

3.4.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures, including, but not limited to those specified in an approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.4.2 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 1.2 unless otherwise agreed in writing by the Agency.

3.4.3 If notified by the Agency that the activities are giving rise to pollution the operator shall submit to the Agency for approval within the period specified, a revision of any plan specified in Schedule 1, Table 1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original plan from the date of approval, unless otherwise agreed in writing by the Agency.

## 3.5 Noise and vibration

3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

## 3.6 Monitoring

- 3.6.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in the following tables in schedule 4 to this permit:
- (a) point source emissions specified in tables S4.1, S4.2 and S4.3;
  - (b) process monitoring specified in table S4.4.
- 3.6.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.6.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing by the Agency.
- 3.6.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 4 tables S4.1, S4.2 and S4.3 unless otherwise specified in that schedule.
- 3.6.5 Within 10 months of the issue of this permit (unless otherwise agreed in writing by the Agency) the site reference data identified in the site protection and monitoring programme shall be collected and submitted to the 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 Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
    - (i) the site protection and monitoring programme.
- 4.1.2 Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.
- 4.1.3 All records required to be held by this permit shall be held on-site and shall be available for inspection by the Agency at any reasonable time.

## 4.2 Reporting

- 4.2.1 A report or reports on the performance of the activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the assessment of the impact of the emissions submitted with the application;
  - (b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
  - (c) the annual production /treatment data set out in schedule 5 table S5.2;
  - (d) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 of that schedule; and
  - (e) details of any contamination or decontamination of the site which has occurred.
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the 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 emission points specified in schedule 5 table S5.1;
  - (b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.4 ; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Agency within one month of the end of the quarter and shall be in the format required by the Agency.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency
- 4.2.6 The results of reviews and any changes made to the site protection and monitoring programme shall be reported to the Agency, within 1 month of the review or change.

## 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 fugitive 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 6 to this permit within the time period specified in that schedule.

- 4.3.3 Prior written notification shall be given to the Agency of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the activities;
  - (b) cessation of operation of part or all of the activities for a period likely to exceed 1 year; and
  - (c) resumption of the operation of part or all of the activities after a cessation notified under(b) above.
- 4.3.4 The Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.5 Where the 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 Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 The Agency shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.
- 4.3.7 The Agency shall be provided, within 14 days of the operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Agency), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.
- 4.3.8 The Agency shall be notified within 14 days of the operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.
- 4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- (a) any change in the operator's trading name, registered name or registered office address;
  - (b) any change to particulars of the operator's ultimate holding company (including details of an ultimate holding company where an operator has become a subsidiary); and
  - (c) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

## 4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 7 shall have the meaning given in that schedule.

# Schedule 1 – Operations

**Table S1.1 activities**

Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
S5.4 A1(a)(ii)	D9: Physical and chemical treatment of sludge for the purposes of disposal	From receipt of the waste to the transfer to storage and waste treatment by <ul style="list-style-type: none"> <li>• Sludge consolidation</li> <li>• Perforated basket screens</li> <li>• Centrifugation of sludge for disposal</li> </ul> <p style="text-align: right;">Waste types and quantities as specified in Schedule 3 Table S3.3</p>
<b>Directly Associated Activity</b>		
Raw material storage	Storage of raw materials for use in treatment process	From receipt on site to transfer for use in the treatment process.
Storage of sludge	D15-Storage of sludge	From receipt from the wastewater treatment process, intermediate storage and final storage including final off-loading for despatch off site
Use of centrifuge for recovery	Centrifugation of waste for the purpose of recovery	From receipt of waste, treatment via centrifugation and despatch of waste off site
Odour abatement	Process and building odour abatement	O1, O2, O3 and O4 odour abatement systems
Polyelectrolyte and anti-foam facilities	Polyelectrolyte and anti-foam facilities	Material receipt , material transfer, make up and storage including associated potable water and effluent storage facilities

**Table S1.2 Operating techniques**

Description	Parts	Date received
Application FP3638MU	The response to sections 2.1.1, 2.1.2, 2.1.3, 2.1.4, 2.1.6, 2.1.10, 2.1.11, 2.1.20, 2.1.21, 2.1.22, 2.1.23, 2.1.24 and section 2.2 of the application.	30/11/06
Application EPR/FP3638MU/V002	The response to sections 2b), 2d), 2e), 3), 4a), 4b), 5) , 6b), 6c), 6d), 6e), 6 f) of part C of application	17/09/10
Schedule 5 response on non-odour issues	All	11/06/10
Schedule 5 response on odour issues	All	11/06/10
Additional information response	Responses to Questions 1, 2, 3 and 7	23/06/10
Application EPR/FP3638MU/V004; Supporting Information	Section 2.1 In process controls, 2.1.1; Section 2.2 Emissions control, 2.1.2; 2.2.2, 2.2.5 and Tables 2.1, 2.2: Sections 2.3, 2.5 & 2.5.1: Section 4, subsection 4.1 Odour, 4.2 Noise, 4.3 Accidents & 4.4 Fugitive Emissions.	24/06/14

**Table S1.3 Improvement programme requirements**

<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IP 1	<p>The Operator shall review their Odour Management Plan, taking into consideration the requirements of Section 2.2.6 of the Agency Sector Guidance Note IPPC S5.06 dated December 2004, Agency Horizontal Guidance Note H4 dated October 2002 and Part III of DEFRA's Code of Practice on Odour Nuisance from Sewage treatment Plants, dated 2006. Upon completion of the review, the updated Plan shall be submitted to the Agency for approval in writing.</p> <p>The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the Plan.</p> <p>The Plan shall be implemented by the operator unless otherwise agreed in writing by the Agency.</p>	<b>Completed</b>
IP 2	<p>The operator shall develop a written Site Closure Plan with regard to the requirements set out in Section 2.11 of the Agency Guidance Note IPPC S5.06, dated December 2004.</p> <p>Upon completion of the plan, a summary of the document shall be submitted to the Agency in writing.</p>	<b>Completed</b>
IP 3	<p>The operator shall develop a Flood Risk and Spillage Plan which shall include:</p> <ul style="list-style-type: none"> <li>• an assessment of the risk of pollution caused by surface water flooding of the installation</li> <li>• a risk assessment of each storage tank and determining the degree of containment of the largest vessel volume tank within the installation and the risk of any environmental impact should a catastrophic fail occur above ground</li> <li>• Assessing the containment of accidental spillage within the installation and any risk of environmental impact</li> <li>• Undertaking a level survey for the whole of the installation and produce a plan showing the topography of the installation</li> </ul> <p>Producing a scaled surfacing plan of the installation which includes</p> <ul style="list-style-type: none"> <li>• Type of material used in surface construction</li> <li>• Condition of impermeable surfaces providing containment.</li> <li>• Construction details and extent of containment of impermeable areas</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>• Location and destination of drainage serving impermeable areas</li> <li>• where the above risk assessments identify an unacceptable risk of pollution, a programme of works shall be submitted to reduce the risk to acceptable levels, along with a timetable to implement such measures.</li> <li>•</li> </ul> <p>Upon completion the Flood Risk and Spillage plan shall be submitted to the Agency. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The Operator shall implement the plan in accordance with the proposed timetable unless otherwise agreed in writing with the Agency.</p>	<b>Completed</b>
IP 4	<p>The operator shall develop and implement a Competence and Training Plan in accordance 30/04/08 with paragraphs 3-7 of Section 2.3 of IPPC Sector Guidance Note S5.06 dated December 2004. Upon completion of the plan, a summary of the document shall be submitted to the Agency.</p>	<b>Completed</b>

**Table S1.3 Improvement programme requirements**

<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IP5	<p>The operator shall undertake a review of the condition of all the sub-surface pipe work and 31/07/08 storage measures including sumps, storage tanks, vessels and lagoons (but excluding primary and secondary digester tanks and their associated pipework and the installation drains) in relation to their potential risk to cause fugitive emissions to surface and ground water having regard to the requirements of Section 2.2.5 of the Agency Guidance Notice IPPC S5.06 dated December 2004.</p> <p>The review shall highlight the need or otherwise to undertake further investigations and intrusive testing to provide confirmation of an individual asset's condition or the associated ground. Where it is identified as necessary, the Operator shall submit proposals for further investigations to be carried out, along with timescales proposed for carrying out the investigation.</p> <p>The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the review.</p> <p>The investigations shall be carried out in accordance with the proposed timescales unless otherwise agreed in writing by the Agency, the results of which shall be submitted in writing to the Agency.</p>	<b>Completed</b>
IP 6	<p>A written plan shall be submitted to the Agency detailing proposals for a monitoring programme for the detection of leaks from the surface and sub-surface infrastructure including tanks, sumps, pumps, digesters and the associated pipe work. The proposals shall include:</p> <ul style="list-style-type: none"> <li>• Frequency and timescale for performing the detection monitoring programme</li> <li>• Methods and indicators to be used in detecting and assessing any leaks</li> <li>• Identification of remedial actions to be taken upon identification of Leaks.</li> </ul> <p>The plan shall also detail enabling works required to allow monitoring to take place, the justification for employing the methods, frequencies and actions chosen.</p> <p>The notification of conditions 2.5.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The monitoring programme shall be implemented by the operator unless otherwise agreed with the Agency.</p> <p>Following the implementation of the monitoring, the Operator shall submit the results obtained from the monitoring and a proposed action plan in the event of the monitoring showing pollution.</p>	<b>Completed</b>
IP 7	<p>Written proposals shall be submitted to the Agency for providing secondary containment, or other appropriate measures to prevent or where that is not practicable, to minimise leakage and spillage from the primary pipework (including drains) or sumps, storage and treatment vessels in relation to their risk of causing pollution, having regard to IPPC S5.06, dated December 2004</p>	<b>Completed</b>



**Table S1.3 Improvement programme requirements**

Reference	Requirement	Date
IP 8	<p>The operator shall submit a written report detailing the condition of the installation drainage which includes a review the condition of drains having regard to the requirements of Section 2.2.5 of the Agency Guidance Notice IPPC S5.06 dated December 2004.</p> <p>The report shall also include a detailed drainage plan for the installation including the routes for return flows to the head of the works and their location in relation to emergency and storm overflows.</p> <p>The report shall include any appropriate measures identified for implementation to improve the drainage having regard to the requirements of Section 2.2.5 of the Agency Guidance Notice IPPC S5.06 dated December 2004 which shall include the relocation of the point of return to a location downstream of those emergency/storm overflows where necessary, along with a timescale for the measures to be implemented.</p> <p>The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the report and drainage plan. Any subsequent improvements shall be implemented by the operator after the date of approval by the Agency and within a timescale to be agreed by the Agency.</p>	<b>Completed</b>
IP 9	<p>The Operator shall undertake a review of the current odour emissions abatement equipment to assess their adequacy. The review shall consider the design, capacity, capability, operation and maintenance of the odour control units.</p> <p>A report shall be submitted in writing to the Agency detailing the findings of the review, and shall include a programme and timetable for the implementation of the appropriate measures identified. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the review.</p> <p>The programme shall be implemented by the Operator unless otherwise agreed in writing by the Agency.</p>	<b>Completed</b>
IP 10	<p>The Operator shall carry out a noise assessment for the Permitted Installation in accordance with the requirements of our Guidance <a href="#">H3 (Part 2 Noise Assessment and control)</a>. The assessment shall consider the background noise climate and the impact of operations during daytime and night-time periods. The report should consider the noise impact across the whole of the installation when in operation with specific attention to noise impact from the new Perforated Basket Screen Building and Dewatering Facilities.</p> <p>A report summarising the outcome of the assessment, including a timetable for the implementation of any improvements identified, shall be submitted to the Environment Agency in writing for approval.</p>	<b>Completed</b>

**Table S1.3 Improvement programme requirements**

<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IP 11	<p>The Operator shall provide a report of the effectiveness of odour control measures which are currently in place, having regard to Part III of Defra's Code of Practice on Odour Nuisance from Sewage Treatment Plants dated 2006 and the Environment Agency Sector Guidance S5.06. This is with specific reference to the new screening and dewatering facilities. A written summary of the assessment shall be submitted to the Environment Agency in writing for approval, which shall include, but not be limited to the following:</p> <ul style="list-style-type: none"><li>• The finalisation of abatement control of the O4 air ionisation abatement system with a review of the adequacy of controls, odour abatement efficiency and final discharge odour concentration in oue/m<sup>3</sup>. This is to include a review of the adequacy of odour controls listed in Table S4.8;</li><li>• The finalisation of abatement control of the O3 activated carbon odour abatement systems with a review of adequacy of the controls, odour abatement efficiency and final discharge odour concentration in oue/m<sup>3</sup>. Odour monitoring shall be in compliance with monitoring standard BS EN 13725. This is to include a review of the adequacy of odour controls listed in Table S4.8;</li><li>• A review of total installation odour impact and modelling assumptions supplied in the variation application Schedule 5 response dated 1/06/10, based on commissioning odour data - to prove compliance with site odour boundary limits as set on in Part III of Defra's Code of Practice on Odour Nuisance from Sewage Treatment Plants dated 2006;</li><li>• A review of the adequacy of the installation Odour Management Plan in the light of the above assessment;</li></ul> <p>A timetable for the implementation of any improvements identified.</p>	<b>Completed</b>

<b>Table S1.4B Pre-operational measures</b>		
1	Screening and Dewatering Facilities.	<p>At least 30 days before commissioning commences of these facilities the operator shall submit an amendment to the existing Odour Management Plan (OMP) to cover the new activities included within this variation. The Operator shall have regard to Part III of Defra's Code of Practice on Odour Nuisance from Sewage Treatment Plants dated 2006 and the Environment Agency Sector Guidance S5.06 <b>Guidance for the disposal and recovery of hazardous and non-hazardous waste</b></p> <p><b>In addition</b> to verify the effectiveness of these measures to minimise potentially odorous emissions from the installation a report shall be produced which shall also cover but not be limited to:</p> <ul style="list-style-type: none"> <li>• A pre- commissioning report for each of OCU3 and OCU4 odour control units shall be submitted with any follow on improvements to the OMP.</li> <li>• Final version of check lists for O3 and O4 as set out in operator odour control maintenance document.</li> </ul> <p>No operations shall commence until this report has been approved by the Agency.</p> <p><b>COMPLETED</b></p>
2	Screening and Dewatering Facilities.	<p>At least 30 days before commissioning commences of these facilities the operator shall submit a report demonstrating that the necessary infrastructure and operating procedures are in place as detailed in operator application EPR/FP3638MU/V002 for the Installation to allow environmental compliance with the permit EPR/FP3638MU.</p> <p>This report shall include but not be limited to:</p> <ul style="list-style-type: none"> <li>• Infrastructure bunding to ensure fugitive emission control;</li> <li>• Noise abatement equipment installation;</li> <li>• Sub surface transfer pipe work between Sludge Screening and Dewatering plant integrity testing reports;</li> <li>• Cake silo discharge dust minimisation measures in place during off-loading to lorries.</li> </ul> <p>No operations shall commence until this report has been approved by the Agency.</p> <p><b>COMPLETED</b></p>
3	Screening and Dewatering Facilities	<p>At least 30 days before commissioning commences of these facilities the operator shall submit a report updating the Site Protection and Management Plan for the installation to cover the new facilities. The plan shall cover but not be limited to:</p> <ul style="list-style-type: none"> <li>• Subsurface pipe work and storage facilities;</li> <li>• Bunding and hard standing utilised for containment;</li> <li>• Additional fugitive emission control measures.</li> </ul> <p>No operations shall commence until this report has been approved by the Agency.</p> <p><b>COMPLETED</b></p>

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Schedule 2 - Site plan



## Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels	
Raw materials and fuel description	Specification
"_"	

Table S3.2 Permitted types and quantities for storage of waste	
Maximum quantity	Maximum storage quantity 4850 wet tonnes
Waste code	Description
19 08 05	Sludge from treatment of urban wastewater

Table S3.3 Permitted waste types and quantities for treatment	
Waste codes	No more than 720,000 tonnes/year wet tonnes
EWC Code	Description
19 08 05	Sludge from treatment of urban waste water

## Schedule 4 - Emissions and monitoring

Table S4.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref and location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
O1	No Parameters Set	Odour Control Unit (Bio filter) serving the emergency consolidation tanks	No limit set	-	-	-
O2	No Parameters Set	Odour Control Unit (Bio filter) serving the holding tanks	No limit set	-	-	-
O3	No Parameters Set	Odour Control Unit (Activated Carbon Unit) serving the dewatering area	No limit set	-	-	-

Table S4.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
-						

Table S4.3 Point Source Emissions to Sewer, Effluent Treatment Plant or Other Transfers Off-Site - Emission Limits and Monitoring Requirements						
Emission Point and Location	Parameter	Source	Limit (Incl Unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
PDS1 (as referenced on Figure 12 issue B submitted on the 23/10/07)	No parameters set	Consolidation tank decant liquors	No limit set	-	-	-
PDS2 (as referenced on Figure 12 issue B submitted on the 23/10/07)	No parameters set	Run-off from process building and hard standing	No limit set	-	-	-
PDS3 (as referenced on Figure 12 27428.N02a, submitted on 23/06/10)	No parameters set	Run-off from process building and hard standing in perforated basket screen area	No limit set	-	-	-
PDS 4 as referenced on Figure 12 27428.N02a, submitted on 23/06/10)	No parameters set	Run-off from process building and hard standing in dewatering area	No limit set	-	-	-
PDS 5 as referenced on Figure 12 27428.N02a, submitted on 23/06/10)	No parameters set	Centrate wet well	No limit set	-	-	-

**Table S4.8 Process monitoring requirements**

Emission point reference or source or description of point of measurement	Parameter	Compliant parameter range or limit	Monitoring frequency	Monitoring standard or method
Odour control bio filter serving emission points O1 and O2	Drain pH	6 - 9 <sup>(1)</sup>	Weekly	pH meter
Odour control bio filter serving emission points O1 and O2	Bed Humidity	70 – 100% <sup>(1)</sup>	Quarterly	RH Probe
Odour control carbon bed O3	Carbon bed pressure drop	<sup>(2)</sup>	Daily <sup>3</sup>	Magnehelic DP gauge installed on the unit
Odour control carbon bed O3	Outlet hydrogen sulphide concentration	100 ppb	Monthly	Paper tape monitor, Draeger Tubes or Jerome instrument
Odour control air ionisation O4	Pressure drop across filter	To be confirmed during commissioning <sup>(2)</sup>	Daily <sup>3</sup>	Magnehelic DP gauge installed on the unit
Odour control air ionisation O4	Electrical Voltage	To be confirmed during commissioning <sup>(2)</sup>	Daily <sup>3</sup>	Gauge, meter

1. The parameter values in this table apply unless otherwise agreed in writing by the Environment Agency.
2. Parameters to be agreed in writing by the Environment Agency.
3. "Daily" indicates Monday to Friday unless otherwise specified.

## Schedule 5 – Reporting

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

Table S5.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
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Table S5.2: Annual production/treatment	
Parameter	Units
Quantity of waste treated	tonnes

Table S5.3 Performance parameters		
Parameter	Frequency of assessment	Units
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Table S5.4 Reporting forms		
Media/parameter	Reporting format	Date of form
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## Schedule 6 - 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 PPC Regulations.

### Part A

Permit Number	<b>FP3638MU</b>
Name of operator	
Location of Facility	<b>Rochdale WwTW sludge Treatment Facility</b>
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 immediately

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 immediately unless otherwise specified below

Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	

(b) Notification requirements for the breach of a limit	
To be notified immediately unless otherwise specified below	
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 immediately	
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 the operator

## Schedule 7 - Interpretation

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

"*accident management plan*" means a documented procedure (or procedures) that set out the measures necessary to prevent accidents occurring within the permitted installation, during both normal and abnormal operations, and limit the consequences to human health or the environment of any such accidents that do occur.

"*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 4 to the PPC Regulations.

"*authorised officer*" means any person authorised by the Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

"*disposal*" shall mean any of the operations provided for in Annex IIA to Directive 75/442/EEC.

"*emissions to land*", includes emissions to groundwater.

"*fugitive emission*" means an emission to air, water or land from the activities which is 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.

"*land protection guidance*" means Agency guidance "H7 - Guidance on the protection of land under the PPC Regime: application site report and site protection monitoring programme".

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

"*notify/notified without delay*" means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"*PPC Regulations*" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No. 1973 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

"*recovery*" shall mean any of the operations provided for in Annex MB to Directive 75/442/EEC.

"*relevant person*" and "*relevant conviction*" shall have the meanings given to them in the Environmental Protection Act 1990

"*site protection and monitoring programme*" means a document which meets the requirements for site protection and monitoring programmes described in the Land Protection Guidance.

"*technically competent management*" and "*technical competence*" shall have the meanings given to them in the Environmental Protection Act 1990.

<sup>u</sup> *waste code*" means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

\*WFD\* means Waste Framework Directive (75/442/EEC).

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

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

END OF PERMIT