

# Notice of variation and consolidation with introductory note

**The Environmental Permitting (England & Wales) Regulations 2016**

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Saint-Gobain Construction Products UK Limited  
Mountfield Landfill Old Tip and Leachate Treatment Plant  
Mountfield  
Robertsbridge  
Essex  
TN32 5LA

**Variation number**

EPR/DP3190VV/V004

**Permit number**

EPR/DP3190VV

# Mountfield Landfill Old Tip and Leachate Treatment Plant

## Permit number EPR/DP3190VV

### Introductory note

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

This site known as Mountfield Landfill Old Tip is in aftercare. It was not granted a permit in accordance with the Landfill Directive as waste disposal ceased in 1994, so the landfill is treated as a waste operation.

The following Notice varies the environmental permit EAWML19602 (EA/EPR/DP3190VV) referred to in the status log below and replaces that permit with a consolidated environmental permit.

We have issued this variation to:

- To add a new leachate treatment plant EPR 2016 Schedule 1 activity undertaken at the site under Section 5.4 Part A (1)(b)(i), the leachate treatment plant is an installation and will now become the main activity.
- consolidate any modification or variation notices into the permit
- incorporate existing agreements in writing, management plans and closure reports
- update the operators permit into EPR conditions and format

The Mountfield Landfill Old Tip is situated in Mountfield approximately 4km south of the village of Robertsbridge and is located within the existing British Gypsum complex. Adjacent to the Old Tip, on the southwest edge of the permit boundary is the New Tip Landfill. The area immediately to the north of the Old Tip is industrial premises, while land immediately to the east and south comprises of woodland. There is open ground and woodland to the west. The closest residential dwellings are along Church Road, located approximately 350m to the east.

This variation does not seek to amend any activities related to the Old Tip landfill only to add a leachate treatment system (LTS) to treat leachate arising from both the Mountfield Landfill Old Tip and New Tip landfills prior to discharge to the River Line.

The LTS will be constructed above the restored surface of the Old Tip. The site will process approximately 73,000m<sup>3</sup> of leachate per annum. The permit boundary will be increased to the east of the site to ensure all infrastructure related to the LTS is included within the installation boundary.

Leachate, destined for treatment at the LTS, will be collected in the existing 40,000 litre underground tank on site. Leachate will then be pumped to the biochemical reactors (BCRs) through pipework and will then flow at a controlled rate under gravity. The BCRs will be sequenced in pairs to allow for potential downtime of one BCR without having to cease operations. The organic media in these BCRs uses sulphate reducing bacteria to consume sulphate in the leachate and produce sulphide. The organic media in the BCR's comprises woodchip, limestone, straw and biochar in varying proportions.

Effluent is then passed through a scrubber to precipitate dissolved sulphides within the leachate into an insoluble metal sulphide. Scrubbing can take two forms, depending on the prevailing chemistry in the BCR's. If the BCRs generate excess Sulphide in the effluent, then scrubbing is carried out by reacting the effluent with a sacrificial metal - this process precipitates the dissolved sulphides within the leachate into an insoluble metal sulphide. If the BCRs generate excess free sulphur, scrubbing is carried out by filtering the BCR effluent through a filter sand – this process traps the free sulphur within the sand.

Once the effluent has been scrubbed, it will flow under gravity to an Aerobic Polishing Wetland (APW) or reed bed, comprising of a geomembrane lined shallow pond filled with soil and locally harvested or cultivated vegetation. The purpose of this process feature is to re-aerate the anoxic effluent from the BCR. After

passing through the APW, the effluent will be discharged to the River Line in accordance with the requirements of the environmental permit.

The facility will be managed in accordance with an Environmental Management System (EMS) accredited to ISO14001.

The environmental permit is now a multi-regime permit comprising an installation and a waste operation.

The changes made to the permit are set out in the appropriate Schedule.

This status log 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>
EAWML 19602 (East Sussex CC ref: Licence number WD 049)	22/11/1977	Issued to British Gypsum Limited Site known as 'Old Tip'
EAWML 19602 Modified	28/02/1991	Modification to condition 7, no discharges to water without a discharge consent
EAWML 19602 Modified	22/05/1992	Modification to condition 40, amendment to restoration profile
EAWML 19602 Modified	29/04/1994	Modification to condition 4, increase in quantity of waste
Transfer Application EPR/DP3190VV/T001	Duly Made 21/04/2009	Permit Transfer
Additional information received	12/10/2009	Notification that financial provision no longer required
Transfer determined EPR/DP3190VV	27/11/2009	Transfer of permit to BPB United Kingdom Limited
Variation application to change company name to Saint-Gobain Construction Products UK Limited	Duly made 29/05/2015	Name changed to Saint-Gobain Construction Products UK Limited
Variation issued EPR/DP3190VV/V002	29/05/2015	Varied permit issued to Saint-Gobain Construction Products UK Limited
Variation supplication to change registered office address	15/02/2021	Registered office address changed to Saint-Gobain House, East Leake, Loughborough, Leicestershire, LE12 6JU.
Variation issued EPR/DP3190VV/V003	18/02/2021	Varied permit issued to Saint-Gobain Construction Products UK Limited
Variation Application EPR/DP3190VV/V004	Duly made 30/09/2021	Application to vary to add a leachate treatment system.
Variation determined	12/10/2022	Varied and consolidated permit issued in EPR 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

EPR/DP3190VV

### Issued to

**Saint-Gobain Construction Products UK Limited** (“the operator”)

whose registered office is

**Saint-Gobain House**

**East Leake**

**Loughborough**

**LE12 6JU**

company registration number 00734396

to operate a regulated facility at

**Mountfield Landfill Old Tip and Leachate Treatment Plant**

**Mountfield**

**Robertsbridge**

**Essex**

**TN32 5LA**

to the extent set out in the schedules.

The notice shall take effect from 12/10/2022.

Name	Date
Louise Hann	12/10/2022

Authorised on behalf of the Environment Agency

**Schedule 1**

All conditions have been varied by the consolidated permit.

**Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

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

### Permit number

**EPR/DP3190VV**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/DP3190VV/V004 authorising,

**Saint-Gobain Construction Products UK Limited** (“the operator”),

whose registered office is

**Saint-Gobain House**

**East Leake**

**Loughborough**

**LE12 6JU**

company registration number 00734396

to operate an installation and a waste operation at

**Mountfield Landfill Old Tip and Leachate Treatment Plant**

**Mountfield**

**Robertsbridge**

**Essex**

**TN32 5LA**

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

Name	Date
Louise Hann	12/10/2022

Authorised on behalf of the Environment Agency

# Conditions

## 1 Management

### 1.1 General management

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

### 1.2 Energy efficiency

- 1.2.1 For the activity referenced in schedule 1, table S1.1, AR1, the operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
  - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
  - (c) take any further appropriate measures identified by a review.

### 1.3 Efficient use of raw materials

- 1.3.1 For the activity referenced in schedule 1, table S1.1, AR1, 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 four 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 further appropriate measures identified by a review.

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

- 1.4.1 For the activity referenced in schedule 1, table S1.1, AR1, the operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
  - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
  - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

- 1.4.2 For the activity referenced in schedule 1, table S1.1, AR1, the operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.
- 1.4.3 For the activity referenced in schedule 1, table S1.1, AR5, the operator shall take appropriate measures to ensure that waste produced by the activity 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.

## **2 Operations**

### **2.1 Permitted activities**

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 For the activity referenced in schedule 1, table S1.1, AR1, the activities shall be undertaken in accordance with best available techniques.
- 2.1.3 For the activity referenced in schedule 1, table S1.1, AR1, all process plant and equipment shall be commissioned, operated and maintained and shall be fully documented and recorded in accordance with the manufacturer’s recommendations.
- 2.1.4 For the activity referenced in schedule 1, table S1.1, AR1, waste authorised by this permit shall be clearly distinguished from any other waste on the site.

### **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 7 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 Environment Agency.
- 2.3.2 The activities shall be operated using techniques adequate to minimise emissions from the waste listed in schedule 2, table S2.3, including but not limited to those listed in table S1.2.
- 2.3.3 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **2.4 Improvement programme**

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



## **2.5 Pre-operational conditions**

2.5.1 For the activity referenced in schedule 1, table S1.1, AR1, the activity shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

## **2.6 Engineering**

2.6.1 No construction of infrastructure shall commence until the operator has submitted for approval relevant construction proposals or a written request to use previous construction proposals and the Environment Agency has approved the construction proposals.

2.6.2 The construction of infrastructure shall take place only in accordance with the approved construction proposals unless:

- (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
- (b) a change has otherwise been agreed in writing by the Environment Agency.

2.6.3 The operator shall submit for approval a CQA Validation Report within four weeks of the completion of the construction of the relevant infrastructure, or other time period agreed in writing with the Environment Agency.

2.6.4 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.6.1 and 2.6.2 do not apply and the relevant infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.

2.6.5 For the purposes of conditions 2.6.1 and 2.6.3, the Environment Agency shall be deemed approved where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:

- (a) confirmed whether or not it is satisfied; or
- (b) informed the operator that it requires further information.

2.6.6 Where the Environment Agency has required further information under condition 2.6.5(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:

- (a) confirmed whether or not it is satisfied; or
- (b) informed the operator that it requires further information.

## **2.7 Waste acceptance**

2.7.1 For the activity referenced in schedule 1, table S1.1, AR1, waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 2 table S2.3;
- (b) it conforms to the description in the documentation supplied by the producer and holder; and
- (c) the facility has sufficient free capacity to store and treat the waste.

2.7.2 For the activity referenced in schedule 1, table S1.1, AR1, the operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste. The operator shall maintain records of the information provided:

- (a) the nature of the process producing the waste;
- (b) the composition of the waste;

- (c) the handling requirements of the waste;
- (d) the hazardous property associated with the waste, if applicable; and
- (e) the waste code of the waste.

2.7.3 For the activity referenced in schedule 1, table S1.1, AR1, the operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.7.4 For the activity referenced in schedule 1, table S1.1, AR1, waste pre-acceptance and acceptance procedures shall be undertaken in accordance with best available techniques.

## **2.8 Leachate management**

2.8.1 For the activity referenced in schedule 1, table S1.1, AR5, the operator shall manage leachate to minimise emissions, including but not limited to the measures specified in table S1.2.

## **2.9 Landfill gas management**

2.9.1 For the activity referenced in schedule 1, table S1.1, AR5, the operator shall manage landfill gas to minimise emissions, including but not limited to the measures specified in table S1.2.

# **3 Emissions and monitoring**

## **3.1 Emissions to water, air or land**

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

3.1.2 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 table S3.2.

3.1.3 For the activity referenced in schedule 1, table S1.1, AR1, periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

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

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

3.2.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
- (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2.3 Except for the biochemical reactors (BCRs) and air polishing wetland (APW) activity referenced in schedule 1, table S1.1, AR1, all liquids in containers, 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.

### **3.3 Odour**

- 3.3.1 For the activity referenced in schedule 1, table S1.1, AR1, 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 Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 For the activity referenced in schedule 1, table S1.1, AR1, the operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
  - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **3.4 Noise and vibration**

- 3.4.1 For the activity referenced in schedule 1, table S1.1, AR1, emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 For the activity referenced in schedule 1, table S1.1, AR1, the operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
  - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **3.5 Monitoring**

- 3.5.1 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) Leachate level in tables S3.1;
  - (b) Point source emissions specified in tables S3.2;
  - (c) Groundwater specified in table S3.3;
  - (d) Landfill gas specified in tables S3.4, and S3.5;
  - (e) Surface water specified in table S3.6;
  - (f) Ambient air monitoring specified in S3.7; and
  - (g) Process monitoring specified in table S3.8.
- 3.5.2 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.

3.5.3 For the activity referenced in schedule 1, table S1.1, AR1, monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

## **3.6 Pests**

3.6.1 For the activity referenced in schedule 1, table S1.1, AR1, the activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 For the activity referenced in schedule 1, table S1.1, AR1, the operator shall:

- (a) only use approved products for pest control;
- (b) treat pest infestations promptly;
- (c) reject pest-infected incoming waste;
- (d) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
- (e) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## **4 Information**

### **4.1 Records**

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
  - (i) off-site environmental effects;
  - (ii) matters which affect the condition of the land and groundwater;
  - (iii) the results of groundwater monitoring;
  - (iv) sub-surface landfill gas monitoring;
  - (v) leachate levels and quality; and
  - (vi) waste types and quantities.

4.1.2 The operator shall keep convenient access to plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

## 4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 For the activity referenced in schedule 1, table S1.1, AR1, a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment 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 risk assessments submitted in relation to this installation and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;
  - (b) the energy consumed at the site, reported in the format set out in schedule 4 table S4.3
  - (c) the annual production/treatment data set out in schedule 4, table S4.2; and
  - (d) the performance parameters set out in schedule 4, table S4.3 using the forms specified in table S4.4 of that schedule.
  - (e) a plan(s) ('the monitoring and extraction point plan – MEPP') showing the locations of existing and any new leachate and landfill gas extraction and monitoring points.
- 4.2.3 For the activity referenced in schedule 1, table S1.1, AR1, within 28 days of the end of the reporting period 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 emission 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 S4.4; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 For the activity referenced in schedule 1, table S1.1, AR1, the operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six 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 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.
- 4.2.6 For the activity referenced in schedule 1, table S1.1, AR1, the operator shall keep records of non-waste materials leaving the site, including the type of material, the batch number, the date of export off-site and the tonnage exported on that date. These records shall be maintained for at least 2 years.
- 4.2.7 Within 1 month of the end of the reporting period, the operator shall submit to the Environment Agency a report of the efficiency of the biochemical reactor (BCR) and Aerobic Polishing Wetland (APW). This shall include but not be limited to, an assessment of the efficiency to reduce sulphate, a summary of maintenance and any re-commissioning planned or conducted and an assessment of integrity of the lagoons. The operator shall submit the report in accordance with schedule 4, table S4.1, unless otherwise agreed in writing by the Environment Agency.

## 4.3 Notifications

### 4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
  - (i) inform the Environment Agency,
  - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
  - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
  - (i) inform the Environment Agency, and
  - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Following the detection of an issue listed in condition 4.3.1, the operator shall review and revise the management system and implement any changes as necessary to minimise the risk of reoccurrence of the issue.

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

4.3.5 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:

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

In any other case:

- (e) the death of any of the named operators (where the operator consists of more than one named individual);
- (f) any change in the operator's name(s) or address(es); and
- (g) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

- 4.3.6 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
  - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.7 For the activity referenced in schedule 1, table S1.1, AR1, the Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

## **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 "immediately", in which case it may be provided by telephone.

# Schedule 1 – Operations

<b>Table S1.1 activities</b>				
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>		<b>Limits of specified activity and waste types</b>
AR1	S5.4 A(1) (a) (i) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving biological treatment.	Treatment of leachate in a facility with a capacity of >50 tonnes/ day		Leachate arising from the landfill and imported from Mountfield Landfill New Tip EPR/DP3099VK WML19603.  Biological treatment of waste consisting of biochemical reactors, scrubber and aerobic polishing wetland.  Waste types suitable for acceptance shall be limited to those specified in Table S2.3.
<b>Directly Associated Activity</b>				
AR2	Storage of waste pending recovery or disposal	Temporary storage of leachate	Leachate arising from the landfill and Mountfield Landfill New Tip EPR/DP3099VK WML19603.  Temporary storage of leachate, prior to treatment and discharge to River Line, use in on-site plasterboard manufacture or removal from site by tanker	
AR3	Raw material storage	Storage of raw materials including, but not limited to, woodchip, limestone, straw, biochar, lubrication oil, antifreeze, propane, diesel.		From the receipt of raw materials to despatch for use within the facility.
AR4	D6 - release to water body except seas/ oceans	Discharge of treated leachate from Leachate Treatment System to point of entry to controlled waters		From Leachate Treatment System to River Line.
<b>Waste operations</b>				
<b>Activity reference</b>	<b>WFD Annex I and II operations (where applicable)</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
AR5 - Closed	D1 – deposit into or on land	-	Closed landfill that accepted non-hazardous waste	No waste shall be accepted for disposal



<b>Table S1.2 Operating techniques</b>		
Description	Parts	Date Received
Application	All (East Sussex Licence No 049 / EAWML 19602)	30/05/1977
Aftercare Plan for landfill	Environmental Management Plan / Closure Plan Report Issue 3 Revision B, prepared by CMS-Enviro, insofar as it relates to the Old Tip landfill. Excluding: Table 20 Landfill Gas Compliance Levels, Contingency Actions and Derivation of Compliance Limit	29/09/2017
	Table 20 Landfill Gas Compliance Levels, Contingency Actions and Derivation of Compliance Limit (Corrected Table 20 to replace version in EMP/CR Issue 3 Revision B, September 2017)	19/12/2017
Variation Application Passive Leachate Treatment Plant	Application forms C2 and C3 Section 3 Operating Techniques and Technical Standard and referenced supporting information. Surface Water Pollution Risk Assessment for the Discharge of Treated Landfill Leachate from a Proposed Passive Treatment System, produced by SLR, SLR Ref: 402.01288.00029, Version No: Final v1, February 2021.	16/03/2021
Variation Application	Odour Management Plan produced by SLR, SLR Ref: 402.00195.00032, Version No: Final v1, February 2021	16/03/2021
Response to Schedule 5 Notice dated 10/11/2021	Email dated 06/12/2021, produced by SLR, SLR Ref: 402.01288.00029, titled Schedule 5 Request for Mountfield Tip Landfill EP Variation - Response to questions 1 to 12 detailing design principles, system maintenance, monitoring.	06/12/2021
Further Information	Pilot Scale Passive Treatment Report, SLR Ref: 424.00195.00022, Version No: Final, November 2021	06/12/2021
Further Information	Emission Point Location Drawing 1 dated January 2022	01/02/2022
Response to Schedule 5 Notice dated 03/02/2022	Email response to question 1 to 3 detailing process monitoring and discharge water quality monitoring.	21/02/2022
Further Information	Process Emission Point Location Drawing 1 dated January 2022	22/02/2022
Further Information	Best Available Techniques Assessment and Operating Techniques (BATOT) Final. SLR Ref: 402.01288.00029 Version No: v1 Final April 2022	22/04/2022
Further Information	Non-Technical Summary SLR Ref: 402.01288.00029 Version No: v1 Final April 2022	22/04/2022
Further Information	Old Mountfield Landfill Monitoring/Inspection Checklist. Version No: v1 Final April 2022	22/04/2022
Further Information	Environmental Risk Assessment SLR Ref: 402.01288.00029 Version No: v1 Final April 2022	22/04/2022
Further Information	Monitoring Emissions Point Plan (MEPP) April 2022	25/04/2022
Further Information	H <sub>2</sub> S Contingency Action Plan email dated 12/09/2022	12/09/2022

<b>Table S1.3 Improvement programme requirements AR1</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IP1	The Operator shall submit a written report to the Environment Agency on the commissioning of the leachate treatment system (LTS). The report shall summarise the environmental performance of the plant as installed against the design parameters set out in the Application and operational procedures developed during commissioning.	6 months after completion of commissioning of the LTS
IP2	<p>Once the LTS has been commissioned the Operator shall submit a written report to the Environment Agency for approval including:</p> <ul style="list-style-type: none"> <li>• details of the monitoring undertaken and results obtained for all parameters detailed in Table S3.2 for the treated effluent from the LTS (activity AR1) at emission point W1 following completion of commissioning. A minimum of 12 sets of data to be obtained;</li> <li>• details and an assessment of the results from the upstream and downstream river monitoring as detailed in Table S3.6;</li> <li>• an assessment of the impact (previously referred to as H1) of the discharge of treated effluent on surface water.</li> </ul> <p>Note: The Agency will use the results of this impact assessment to carry out modelling if required. The Agency will use the impact assessment and any modelling results to update table S3.2 if required.</p>	13 months after completion of commissioning of the LTS unless otherwise agreed with the Agency

<b>Table S1.4 Pre-operational measures AR1</b>		
<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
PO1	Construction of the Leachate Treatment System	No construction of the Leachate Treatment System (LTS) shall commence until the operator has submitted a report providing a review of the final design of the LTS to confirm that the design meets the requirements of BAT.
PO2	Construction of the Leachate Treatment System	Prior to the commencement of construction of the Leachate Treatment System, the Operator shall provide a written commissioning plan (including timescales for completion) to the Environment Agency for approval, and received approval from the Environment Agency to the plan. The commissioning plan shall include details of the testing to be carried out during commissioning to ensure that the operation of the LTS will meet the required treatment standard.

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

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
-	-

Table S2.2 Waste types previously permitted for disposal	
Waste code	Description
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES</b>
17 08	gypsum-based construction material
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01

Table S2.3 Permitted waste types and quantities for Leachate Treatment System	
Maximum quantity	73,000m <sup>3</sup> per year, 200m <sup>3</sup> per day
Waste code	Description
<b>19</b>	<b>WASTES FROM WASTE MANAGEMENT FACILITIES</b>
19 07	landfill leachate
19 07 03	landfill leachate other than those mentioned in 19 07 02

## Schedule 3 – Emissions and monitoring

<b>Table S3.1 Leachate level limits</b>			
<b>Compliance point reference or description</b>	<b>Limit</b>	<b>Monitoring frequency</b>	<b>Monitoring standard, specifications and other actions</b>
Leachate level monitoring points A7, AR8, A10, Ph4.1, Ph4.2 and Ph4.3.	no limit	Quarterly	As specified in Environment Agency Guidance LFTGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with the Environment Agency. The operator shall take appropriate measures to minimise the risk of pollution in accordance with an approved operating technique.

Table S3.2 Point source emissions to water (other than sewer) – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 NGR 572947 119830 on site plan in schedule 7 emission to River Line	Treated effluent from leachate treatment system (activity AR1 listed in Schedule 1, table S1.1)	Oil and grease	No visible oil or grease	--	Weekly	Visual assessment
		Ammoniacal Nitrogen	0.6 mg/l	Spot sample	Weekly during commissioning, every two weeks for 6 months following commissioning and then monthly thereafter unless otherwise agreed in writing.	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <a href="#">risk assessments for your environmental permit (www.gov.uk)</a> or such other subsequent guidance, as may be agreed in writing with the Environment Agency
		BOD (5 day ATU)	1.6 mg/l			
		Chloride	100 mg/l			
		Manganese	0.12 mg/l			
		Sulphate	450 mg/l			
		Copper <sup>Note 1&amp;2</sup>	0.7 µg/l			
		Iron <sup>Note 1&amp;2</sup>	1 mg/l			
		Lead <sup>Note 1&amp;2</sup>	0.9 µg/l			
		Nickel <sup>Note 1&amp;2</sup>	5.6 µg/l			
		Cadmium <sup>Note 1&amp;2</sup>	2 µg/l			
		Zinc <sup>Note 1&amp;2</sup>	20 µg/l			
		Total suspended solids	50 mg/l			
		Sulphide	-			
		Electrical conductivity	-			
		DOC	-			
		Calcium Carbonate	-			
pH	>6 and <9	Instantaneous				
Flow	200m <sup>3</sup> /day	Integrated daily flow rate	Continuous	MCERTS self-monitoring of effluent flow scheme		
MOD Weir, exit of spring-fed culvert from under landfill to discharge to River Line	Spring-fed culvert under landfill (activity AR5 listed in Schedule 1, table S1.1)	Chloride	200 mg/l	Spot sample	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance, as may be agreed in writing with the Environment Agency
		Sulphate	1000 mg/l			
		Manganese	1.21 mg/l			
		Ammoniacal-N	0.78 mg/l			

Note 1: Limits are dissolved metals, in addition total metal results to be provided. Note 2: Interim limits subject to IP2 in Table S1.3 Improvement programme requirements AR1

**Table S3.3 Groundwater – other monitoring requirements**

<b>Monitoring Point Ref. /Description</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
A2, A3R/12	Water level, Ammoniacal Nitrogen, Chloride, Sulphide, Sulphate, Manganese	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u><a href="#">risk assessments for your environmental permit (www.gov.uk)</a></u> or such other subsequent guidance as may be agreed in writing with the Environment Agency
A2, A3R/12	Base of monitoring point (mAoD)	Annually	

**Table S3.4 Landfill gas in external monitoring boreholes – Action levels and monitoring requirements**

Monitoring point reference or description	Parameter	Action level (including units)	Monitoring frequency	Monitoring standard, specifications and other actions
A1, A2, A3R/12, C1/16	Methane	0.8 %v/v	Quarterly	As per LFTGN03 (September 2004) or such other subsequent guidance, as may be agreed in writing with the Environment Agency.  Where the concentration of methane, carbon dioxide and hydrogen sulphide at a specified monitoring point exceeds the specified action level, the operator shall take appropriate measures to minimise the risk of pollution in accordance with an approved operating technique.  Record whether the ground is: <ul style="list-style-type: none"> <li>• waterlogged</li> <li>• frozen</li> <li>• snow covered</li> </ul>
A1, A2, A3R/12, R6R/12	Carbon Dioxide	4.8 %v/v	Quarterly	
R3		8.0 %v/v		
R6		6.0 %v/v		
C1/16		8.0 %v/v		
A1, A2, A3R/12, R3, R6, R6R/12, C1/16	Hydrogen Sulphide	4 ppm	Quarterly	
A1, A2, A3R/12, R3, R6, R6R/12, C1/16	Oxygen	-	Quarterly	
	Atmospheric pressure	-		
	Differential pressure	-		

<b>Table S3.5 Landfill gas – other monitoring requirements</b>				
<b>Monitoring point reference or description</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Monitoring specifications and other actions</b>
In waste gas monitoring boreholes A7, A8R, A10.	Methane Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure	Quarterly	Calibrated handheld monitoring instrument	For cells or phases which have no active gas extraction.
	Hydrogen Sulphide	Quarterly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (version 3 dated 2010) or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	For cells or phases which have no active gas extraction.



Table S3.6 Surface water – other monitoring requirements				
Monitoring point reference or description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
MEPP	Ammoniacal Nitrogen Chloride Electrical conductivity pH Total suspended solids Sulphide Sulphate Manganese	Quarterly	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your environmental permit (www.gov.uk)</u> or such other subsequent guidance, as may be agreed in writing with the Environment Agency
	Oil and Grease		Visual Assessment	
Upstream of W1: R.Line U/S/16 Downstream of W1: R.Line D/S  Sampling points as detailed on MEPP and Figure 4.1 Surface Water Pollution Risk Assessment v1 dated February 2021	Ammoniacal Nitrogen BOD (5 day ATU) Dissolved Organic Carbon Electrical Conductivity Calcium Carbonate Chloride Manganese Sulphate Sulphide Copper <sup>Note 1</sup> Iron <sup>Note 1</sup> Lead <sup>Note 1</sup> Nickel <sup>Note 1</sup> Cadmium <sup>Note 1</sup> Zinc <sup>Note 1</sup> Total suspended solids pH	Monthly (or other such frequency as may be agreed in writing with the Environment Agency).	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance, as may be agreed in writing with the Environment Agency
Upstream of W1: R.Line U/S/16	Flow	Monthly (or other such frequency as may be agreed in writing with the Environment Agency).	Field testing	

<b>Table S3.6 Surface water – other monitoring requirements</b>				
<b>Monitoring point reference or description</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Sampling point as detailed on MEPP and Figure 4.1 Surface Water Pollution Risk Assessment v1 dated February 2021				
Note 1: Both Dissolved and total metals.				

<b>Table S3.7 Ambient air – other monitoring requirements</b>				
<b>Monitoring point reference or description</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Monitoring Point H2S as detailed on MEPP	Hydrogen Sulphide	Continuous for first 12 months of operation (AR1) and quarterly (for one week each quarter) thereafter or as agreed with the Agency in writing.	As agreed in writing by the Environment Agency.	-

<b>Table S3.8 Process monitoring requirements AR1</b>				
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Process Monitoring Point 1 (Feed tanks) - PM1, Process Monitoring Point 2 (Post BCR) - PM2, Process Monitoring Point 3 (Post sand filter) – PM3. As detailed on MEPP	Flow Rate	Continuous	Inline Flowmeter	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your environmental permit (www.gov.uk)</u> or such other subsequent guidance, as may be agreed in writing with the Environment Agency
	pH	Continuous	Inline pH probe	
	Oxidation Reduction Potential	Continuous	Inline ORP probe	
	Conductivity	Continuous	Inline Conductivity probe	
	Sulphate	Monthly for the first 6 months following commissioning and quarterly thereafter	-	
	Sulphide		-	
	Total Sulphur		-	
	TOC		-	
	Alkalinity		-	
	Ammoniacal Nitrogen		-	
	Calcium		-	
Magnesium	-			
Process Monitoring Point 4 (Post APL) – PM4. As detailed on MEPP	Flow Rate		Continuous	Inline Flowmeter
	pH	Continuous	Inline pH probe	
	Oxidation Reduction Potential	Continuous	Inline ORP probe	
	Conductivity	Continuous	Inline Conductivity probe	
Process Monitoring Point 1 (Feed tanks) - PM1	Temperature	Continuous	Inline temperature probe	

## Schedule 4 – Reporting

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

Reports shall cover the periods ending:

Annual: 31 December  
 6-monthly: 30 June, 31 December  
 Quarterly: 31 March, 30 June, 30 September, 31 December

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Reporting of monitoring data for activity reference AR5 in table S1.1</b>			
<b>Parameter</b>	<b>Reporting period: Inactive (1)</b>		
Leachate level As specified by schedule 3, table S3.1	6 monthly		
Point source emission to water (other than sewer) (MOD Weir As specified by schedule 3, table S3.2	6 monthly		
Groundwater monitoring As specified by schedule 3, table S3.3	6 monthly		
Landfill gas in external and internal monitoring boreholes As specified by schedule 3, table S3.4 and S3.5	6 monthly		
Other surface water monitoring As specified by schedule 3, table S3.6	Annual		
Meteorological data			
<i>Inactive (1) refers to sites charged against category 2.17.15 of the charging scheme</i>			
<b>Reporting of monitoring data for activity reference AR1 in table S1.1</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period AR1</b>	<b>Period begins</b>
Emissions to water W1 Parameters as required by condition 3.5.1	W1 As specified in schedule 3 table S3.2	Quarterly	1 January
Process monitoring Parameters as required by condition 3.5.1	PM1, PM2, PM3 and PM4 As specified in schedule 3 table S3.8	Quarterly	1 January
Other ambient air monitoring Parameters as required by condition 3.5.1	Pointed marked H2S As specified in schedule 3 table S3.7	Monthly during the first year of operations then quarterly	1 January
Performance report As specified by condition 4.2.7	6 monthly during the first year of operations then annual		

<b>Table S4.2: Annual production/ treatment AR1</b>	
Leachate: Accepted from onsite for treatment at the onsite effluent treatment plant.	Cubic metres/year
Non-waste outputs	tonnes or m <sup>3</sup>

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Unit</b>
AR1 Energy usage	Annually	MWh
AR1 Raw material usage	Annually	tonnes or m <sup>3</sup>

<b>Table S4.4 Reporting Forms</b>		
<b>Media/parameter</b>	<b>Reporting Format</b>	<b>Date of Form</b>
Leachate	Form Leachate 1 or other reporting format to be agreed in writing with the Environment Agency	12/10/2022
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	12/10/2022
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	12/10/2022
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	12/10/2022
Other performance indicators	Form Performance 1 or other form as agreed in writing by the Environment Agency (Including H <sub>2</sub> S in ambient air)	12/10/2022
Waste Return	E-waste Return Form	-

# Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

## Part A

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

<b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b>	
<b>To be notified within 24 hours of detection</b>	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
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>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

<b>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Measures taken, or intended to be taken, to stop the emission	

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

<b>(c) Notification requirements for the detection of any significant adverse environmental effect</b>	
<b>To be notified within 24 hours of detection</b>	
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.	

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“action / assessment level” means a numerical limit that indicates that a substance is approaching a compliance limit and the operator should investigate or take action in accordance with their operating techniques prevent a pollution incident or permit breach.

“Aftercare” means the time between formal closure of the site (as agreed with the Agency) and permit surrender

“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.

“APW” means aerobic polishing wetland.

“authorised officer” means any person authorised by the Environment 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.

“BCR” means biochemical reactor.

“background concentration” means such concentration of that substance as is present in:

- For emissions to surface water, the surface water quality up-gradient of the site; or
- For emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge; or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.

“Best available techniques” means the most effective and advanced stage in the development of activities and their methods of operation which indicates the practical suitability of particular techniques for providing the basis for emission limit values and other permit conditions designed to prevent and, where that is not practicable, to reduce emissions and the impact on the environment as a whole:

(a) ‘techniques’ includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned;

(b) ‘available techniques’ means those developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the costs and advantages, whether or not the techniques are used or produced inside the Member State in question, as long as they are reasonably accessible to the operator;

(c) ‘best’ means most effective in achieving a high general level of protection of the environment as a whole.

“background concentration” means such concentration of that substance as is present in:

- For emissions to surface water, the surface water quality up-gradient of the site; or
- For emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge; or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.

“Biodegradable” means a material is capable of undergoing biological anaerobic or aerobic degradation leading to the production of CO<sub>2</sub>, H<sub>2</sub>O, methane, biomass, and mineral salts, depending on the environmental conditions of the process.

“Capacity” means the potential capacity and not historical or actual production levels or throughput. This means that the designed capacity is the maximum rate at which the site can operate. Biological treatment of waste usually takes place over more than one day, so the physical daily capacity can be calculated by



dividing the maximum quantity of waste that could be subject to biological treatment at any one time by the minimum residence time. For in-vessel composting, the residence time for sanitisation should be calculated separately and then aggregated to the complete composting time.

“Construction Proposals” means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the Infrastructure.

“CQA Validation Report” means the final “as built” construction and engineering details of the Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

- The results of all testing required by the CQA programme - this must include the records of any failed tests with a written explanation, details of the remedial action taken, referenced to the appropriate secondary testing;
- Plans showing the location of all tests;
- “As-built” plans and sections of the works;
- Copies of the site engineer’s daily records;
- Records of any problems or non-compliances and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

“convenient access” means that the operator or other appropriate person can obtain and review the content of a document at short notice.

“disposal” means any waste operation which is not recovery. It includes but is not limited to, any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“emissions to land” includes emissions to groundwater.

“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.

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

“exceeded” means that a value is above a permitted limit, or where a range of values or a minimum value is set as a permitted limit it means a value outside that range or below the minimum value, whichever is applicable.

“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.

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“Infrastructure” means any specified element within the site of the:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;

- leachate transfer, treatment and storage systems, including secondary containment;
- surface water drainage systems;
- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems;
- basal or sidewall lining, including lagoons

“LFTGN 02” means Environment Agency Guidance on monitoring of landfill leachate, groundwater and surface water.

“LFTGN 03” means Environment Agency Guidance on the management of landfill gas.

“LFTGN 04” means Environment Agency Guidance for monitoring trace components in landfill gas.

“LFTGN 07” means Environment Agency Guidance on monitoring landfill gas surface emissions.

“liquids” means any liquid other than leachate within the engineered containment system.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“MEPP” means the monitoring and extraction point plan, required by condition 4.2.2(e) to specify extraction points and routine monitoring locations.

“no impact” means that the change made to the construction proposals will not affect the agreed design criteria, specification or performance in a way that has a negative effect.

“operating technique” means any written document, technique or plan that describes how the operator will manage the permitted activities to prevent or minimise pollution and report to the regulator.

“operational area” means any part of a facility used for the handling, storing and treatment of waste.

“operator” means in relation to a regulated facility:

- (a) the person who has control over the operation of the regulated facility,
- (b) if the regulated facility has not yet been put into operation, the person who will have control over the regulated facility when it is put into operation, or
- (c) if a regulated facility authorised by an environmental permit ceases to be in operation, the person who holds the environmental permit

“pests” means Birds, Vermin and Insects.

"pollution" in relation to a water discharge activity or groundwater activity, means the direct or indirect introduction, as a result of human activity, of substances or heat into the air, water or land which may—

- (a) be harmful to human health or the quality of aquatic ecosystems or terrestrial ecosystems directly depending on aquatic ecosystems,
- (b) result in damage to material property, or
- (c) impair or interfere with amenities or other legitimate uses of the environment

"pollution" other than in relation to a water discharge activity or groundwater activity, means any emission as a result of human activity which may—

- (a) be harmful to human health or the quality of the environment,
- (b) cause offence to a human sense,
- (c) result in damage to material property, or
- (d) impair or interfere with amenities and other legitimate uses of the environment.

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

“recovery” means any waste operation the principal result of which is waste serving a useful purpose by replacing other materials which would otherwise have been used to fulfil a particular function, or waste being prepared to fulfil that function. It includes but is not limited to the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“relevant competency scheme” means the CIWM/ WAMITAB operator competence scheme, or the competence management system published by Energy and Utility Skills.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005 and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means the retained Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on Waste as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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.

“Written Management System” means a written document or documents that identify and minimise the risk of pollution;

- arising from the operation
- arising from an accident or incident
- arising from failure to comply with this permit
- identified following a complaint.

Where the following terms appear in the waste code list in Tables S2.2 or S2.3, they have the meaning given below:

‘hazardous substance’ means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008;

‘heavy metal’ means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances;

‘polychlorinated biphenyls and polychlorinated terphenyls’ (‘PCBs’) means PCBs as defined in Article 2(a) of Council Directive 96/59/EC’.

Article 2(a) says that ‘PCBs’ means:

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 % by weight;

‘transition metals’ means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances;

‘stabilisation’ means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste;

‘solidification’ means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste;

‘partly stabilised wastes’ means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

“year” means calendar year ending 31 December.

