

Notice of surrender with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Veolia ES Landfill Limited

Rainham Landfill
Coldharbour Lane
Rainham
RM13 9BJ

Part surrender notification number

EPR/EP3136GK/S012

Permit number

EPR/EP3136GK

Rainham Landfill

Permit number **EPR/EP3136GK**

Introductory note

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

The following notice gives notice of the surrender in part of an environmental permit.

This partial surrender application is to remove an area of land where the aggregate recovery facility was located prior to its relocation as part of V011 to a new location within the installation boundary. A revised site plan is the only change to the permit.

The main features of the landfill installation and the waste operation are as follows:

Rainham Landfill is located in south Essex, on the north bank of the River Thames at Coldharbour Point. It is approximately 2.7km south of the village of Rainham and 1.5 km southwest of Wennington and is located at Ordnance Survey grid reference TQ525 795. The landfill installation is bordered by the River Thames to the west and south. There is an industrial estate located on the southwest boundary of the site and a Distribution centre to the north. To the east is a Site of Special Scientific Interest called the Inner Thames Marshes.

Rainham Landfill is predominantly a land raise facility; there has been a long history of waste management operations at the site dating back to the late 19th Century. Phases 1 to 5 and 7 to 9 were originally used as lagoons for the deposit of silt dredged from the River Thames. Household waste was deposited at the site from the 1960s onward and a waste disposal licence was issued in 1979.

Historically, Rainham Landfill accepted both hazardous and non-hazardous wastes as a co-disposal site. Since the 1980s, the site has accepted non-hazardous waste and has been permitted as a non-hazardous landfill since 2004. The Installation covers an area of approximately 177 hectares. The total capacity of the site is estimated as 28 million cubic metres. The site is authorised to accept 1.7 million tonnes of non-hazardous waste per year. The final maximum elevation of the waste mound is about 50 mAOD. Landfilling is currently projected to continue at the site until 2024 to achieve the final contour.

In addition to the landfilling operation, this permit also covers other installation and waste operation activities. The main installation activities that are regulated in this permit are:

- Section 5.2 Part A(1) (a) - disposal of waste in a landfill.
- Section 5.3 Part A(1)(a)(i) - disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment.
- Section 5.4, Part A(1)(a)(i) - biological treatment of non-hazardous waste.
- Section 5.6 Part A(1)(a) - temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending the treatment listed in Section 5.3.

The installations also include directly associated activities (DAA) that are related to the landfill and hazardous waste treatment activities- management of landfill gas, temporary

storage of leachate, storage and discharges of site drainage from the landfill and hazardous waste treatment area, fuel storage, pre-treatment of waste, storage of treated waste and physical treatment of the restoration soil. Utilisation and flaring of landfill gas are also DAAs to the landfill activity, but these are operated by a different operator under a separate permit.

The permit includes a Soil Recovery Centre (SRC) for hazardous soil treatment. The SRC treats petroleum hydrocarbon contaminated soils to produce quality soils that are suitable to be used as restoration materials for the landfill site, or to be sent offsite as treated waste for use at suitable other permitted facilities.

The waste operation activity regulated in this permit is the physical treatment of non-hazardous waste including manual and mechanical sorting/separation, screening, washing and shredding.

The permit also allows treatment of no more than 46,000 tonnes per year of blended soil and shredded green waste (circa 2,200 tonnes).

Any changes made as a result of the part surrender are set out in the schedules.

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

| Status log of the permit | | |
|---|-------------|--|
| Description | Date | Comments |
| Permit JP3039SU determined | 09/11/2005 | |
| Company name change to Veolia ES Cleanaway (UK) Limited | 10/10/2006 | |
| Variation notice WP3839MM issued | 23/01/2007 | |
| Variation notice RP3535UW issued | 30/03/2007 | |
| Transfer determined EPR/EP3136GK/T001 | 16/10/2009 | |
| Substantial variation determined EPR/EP3136GK/V002 | 16/10/2009 | |
| Agency variation determined EPR/EP3136GK/V003 | 30/05/2013 | Agency variation to implement the changes introduced by IED. |
| Variation determined EPR/EP3136GK | 16/11/2015 | Varied and consolidated permit issued. |
| Variation determined EPR/EP3136GK | 13/04/2016 | |

| Status log of the permit | | |
|---|-------------------------|--|
| Description | Date | Comments |
| Environment Agency Landfill Sector Review Permit reviewed Variation determined EPR/EP3136GK/S0126 Permit EPR/EP3136GK Billing Ref: KP3337RG | 06/06/2016 | Varied and consolidated permit issued in modern condition format. |
| Variation determined EPR/EP3136GK/V007 Billing Ref: BP3037YQ | 18/07/2018 | Varied and consolidated permit issued. |
| Variation determined EPR/EP3136GK/V008 | 21/01/2022 | Variation and consolidated permit issued |
| Variation determined EPR/EP3136GK/V009 | 13/05/2022 | Variation and consolidated permit issued |
| Variation determined EPR/EP3136GK/V010 (Billing Ref: FP3204MH) | 23/11/2022 | Variation and consolidated permit issued |
| Variation determined and consolidation issued EPR/EP3136GK/V011 | 05/12/2024 | Varied and consolidated permit issued in modern format and change location of physical treatment facility. |
| Application EPR/EP3136GK/S012 | Duly made 02/12/2025 | Partial surrender of land used for the physical treatment activity which was relocated. |
| Additional information received | 18/03/2026 | Revised site location plan received |
| Partial surrender determined EPR/EP3136GK/S012 | 18/03/2026 | Partial surrender and consolidated permit issued. |

| Other Part A installation permits relating to this installation | | |
|--|----------------------|----------------------|
| Operator | Permit number | Date of issue |
| EDL (UK) LFG Generation Ltd | EPR/FP3038UB | 22/11/2017 |

End of introductory note

Notice of surrender

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 24 of the Environmental Permitting (England and Wales) Regulations 2016 following notification from the operator surrenders in part

permit number

EPR/EP3136GK

issued to

Veolia ES Landfill Limited (“the operator”)

whose registered office is

**210 Pentonville Road
London
N1 9JY**

company registration number 00997695

to operate regulated facilities at

**Rainham Landfill
Coldharbour Lane
Rainham
RM13 9BJ**

and considers it necessary to vary the permit in order to take account of that partial surrender to the extent set out in the schedules.

This notice shall take effect from 18/03/2026.

| Name | Date |
|----------------------|-------------------|
| James Lidgett | 18/03/2026 |

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

None

Schedule 3 – conditions to be added

None

Schedule 4 – amended plan

Amended plan attached

Schedule 5 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/EP3136GK

This is the consolidated permit referred to in the surrender notice for application EPR/EP3136GK/S012 authorising,

Veolia ES Landfill Limited (“the operator”),

whose registered office is

210 Pentonville Road

London

N1 9JY

company registration number

to operate to operate regulated facilities at

Rainham Landfill

Coldharbour Lane

Rainham

RM13 9BJ

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

| Name | Date |
|---------------|------------|
| James Lidgett | 18/03/2026 |

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 kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Finance

- 1.2.1 For the following activities referenced in schedule 1, table S1.1, A1, A2, A5 – A8 and A12, the financial provision for meeting the obligations under this permit set out in the agreement made between the Operator and the Environment Agency dated 16th October 2009 and varied on 13th April 2016 shall be maintained by the Operator throughout the subsistence of this permit and the Operator shall produce evidence of such provision whenever required by the Environment Agency.
- 1.2.2 For the following activities referenced in schedule 1, table S1.1, A1, A2, A5 – A8 and A12, the Operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
- (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.2.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

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 four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) Implement any appropriate measures identified 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 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.

1.5 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 four years whether changes to those measures should be made; and
- (c) take any further appropriate measures identified by a review.

1.5.2 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.

1.5.3 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.

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 following activities referenced in schedule 1, table S1.1 (A2 to A5), the activities shall be undertaken in accordance with best available techniques.

2.1.3 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.

2.2 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 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.

Hazardous waste storage and treatment

- 2.3.3 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1, table S1.1 and appropriate measures are taken.

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.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1, table S1.4 shall not commence until the measures specified in that table have been completed.

2.6 Landfill Engineering

- 2.6.1 No construction of any new cell of the landfill shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.2 Where the operator proposes to construct any new cell other than the first cell, but proposes no change from the design of the most recently approved cell which could have any impact on the performance of any element of the design, no construction of the new cell shall commence until the operator has submitted a cell layout drawing and the Environment Agency has confirmed that it is satisfied with the cell layout drawing.
- 2.6.3 The construction of a new cell 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.
- 2.6.4 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.6.5 No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.6 The construction of the landfill 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.
- 2.6.7 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant landfill infrastructure.
- 2.6.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.6.5 and 2.6.6 do not apply and the relevant landfill infrastructure may be constructed,

provided that the construction proposals are submitted to the Environment Agency as soon as practicable.

- 2.6.9 For the purposes of conditions 2.6.1, 2.6.2, 2.6.4 and 2.6.5, 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 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.
- 2.6.10 Where the Environment Agency has required further information under condition 2.6.9(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 following activities referenced in schedule 1, table S1.1 (A1), wastes shall only be accepted for disposal if:
- (a) they are listed in schedule 2, table S2.1; and
 - (b) they are non- hazardous waste; and
 - (c) they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm), and
 - (d) they are not shredded used tyres, and
 - (e) they are not liquid waste (including waste waters but excluding sludge and excluding liquid waste accepted at a permitted leachate treatment activity), and
 - (f) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown, and
 - (g) all the relevant waste acceptance procedures have been completed, and
 - (h) they fulfil the relevant waste acceptance criteria, and
 - (i) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
 - (j) they are wastes which have been treated, except for: inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment, or liquid waste accepted for treatment at a permitted leachate treatment activity, and
 - (k) they are wastes with a code beginning with 07 05 and 16 03, they shall exclude waste medicinal products and pharmaceutically active waste materials arising from their manufacture.
- 2.7.2 For the following activities referenced in schedule 1, table S1.1 (A1, A2, A3, A4, A5, A11, A13, A14, A15 and A16) waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2, tables S2.1, S2.2, S2.3, S2.4, S2.5, S2.6, S2.7, S2.8 and S2.9; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.7.3 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:
- (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.
- 2.7.4 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.
- 2.7.5 Wastes shall only be accepted for restoration where:
- (a) they are listed in schedule 2, table S2.6; and
 - (b) they are accepted in accordance with a restoration plan approved in writing by the Environment Agency.
- 2.7.6 The operator shall:
- (a) visually inspect without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill and waste at the point of deposit; and
 - (b) be satisfied that the waste conforms to the requirements of condition 2.7.1.
- 2.7.7 Where the operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.
- 2.7.8 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.7.9 The total quantity of waste that shall be deposited or recovered in the landfill shall be limited by the pre-settlement levels shown on Figure 9 of the Stability Risk Assessment (Halcrow Group Ltd, 2009).
- 2.7.10 The quantity of waste that is deposited or recovered in the landfill in any year shall not exceed the limits in schedule 1, table S1.5.
- 2.7.11 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or recovery and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

2.8 Leachate levels

- 2.8.1 The limits for the level of leachate listed in schedule 3, table S3.1 shall not be exceeded.

2.9 Closure and aftercare

- 2.9.1 The operator shall maintain a closure and aftercare management plan.

2.10 Landfill gas management

- 2.10.1 The operator shall take appropriate measures, including, but not limited to, those specified in any approved landfill gas management plan, to:
- (a) collect landfill gas; and
 - (b) control the migration of landfill gas.
- 2.10.2 The operator shall use the collected landfill gas to produce energy. If the collected landfill gas cannot be used to produce energy, the operator shall use appropriate measures to flare or treat the gas in accordance with an approved landfill gas management plan.
- 2.10.3 The operator shall:

- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a revised landfill gas management plan;
- (b) implement the revised landfill gas management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 The limits 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, tables S3.2, S3.10 and S3.11.
- 3.1.3 The operator shall prevent the input of any hazardous substances from the activities into groundwater.
- 3.1.4 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:
 - (a) between nine and six months prior to the fourth anniversary of the granting of the permit, and
 - (b) between nine and six months prior to every subsequent six years after the fourth anniversary of the granting of the permit.
- 3.1.5 For the following activities referenced in schedule 1, table S1.1 (A2, A3, A4 and A5), 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 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 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 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 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 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 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 and any other actions specified in the following tables in schedule 3 to this permit:

- (a) leachate specified in tables S3.1 and S3.8;
- (b) point source emissions specified in tables S3.2, S3.10 and S3.11;
- (c) groundwater specified in tables S3.3 and S3.6;
- (d) landfill gas specified in tables S3.4, S3.5 and S3.7;
- (e) surface water specified in table S3.9;
- (f) process monitoring specified in tables S3.13 and S.14
- (g) bioaerosols monitoring specified in table S3.12.

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 A topographical survey of the site referenced to ordnance datum shall be carried out and shall be used to produce a plan of a scale adequate to show the surveyed features of the site:

- (a) annually, and
- (b) prior to the disposal of waste in any new cell or new development area of the landfill, and
- (c) following closure of the landfill or part of the landfill.

3.5.4 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.

3.5.5 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3, tables S3.2, S3.10 and S3.11 unless otherwise agreed in writing by the Environment Agency.

3.6 Bioaerosols

3.6.1 The operator shall take all appropriate measures, to prevent or where that is not practicable to minimise the release of bioaerosols. Emissions of bioaerosols from the operational activities shall not exceed the emission action levels specified in table S3.12.

3.6.2 The operator shall where the emission action levels are exceeded:

- (a) notify the Environment Agency and investigate and take remedial action;
- (b) submit to the Environment Agency for approval within the period specified, a bioaerosols management plan which identifies and minimises the risks of pollution from bioaerosols; and
- (c) implement the bioaerosols management plan from the date of approval and revise the plan periodically, unless otherwise agreed in writing by the Environment Agency.

3.7 Pests

3.7.1 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.

3.7.2 The operator shall:

- (a) 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 hazard or annoyance from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.8 Fire prevention

3.8.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

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) the results of groundwater monitoring;

- (ii) sub-surface landfill gas monitoring;
- (iii) leachate levels, quality and quantities;
- (iv) landfill gas generation and collection;
- (v) surface water monitoring;
- (vi) waste types and quantities;
- (vii) the location of hazardous waste deposits;
- (viii) the specification and as built drawings of the basal, sidewall and capping engineering systems;
- (ix) off-site environmental effects; and
- (x) matters which affect the condition of the land and groundwater.

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

4.2 Reporting

4.2.1 The operator shall send 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 A report or reports on the performance of the activities over the previous year ('the annual report') shall be submitted to the Environment Agency by 31st January each year or such other date as may be agreed in writing by the Agency, with the exception of 4.2.2(c) that must be provided by the end of February 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 set out in schedule 4, table S4.2;
- (d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
- (e) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
- (f) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
- (g) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
- (h) a plan(s) ('the monitoring and extraction point plan – MEPP') showing the locations of leachate and landfill gas extraction and all monitoring points.

4.2.3 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) using the forms specified in schedule 4, table S4.4 or other reporting format as agreed in writing with the Environment Agency; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 Within one 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.
- 4.2.5 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.
- 4.2.6 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.
- 4.2.7 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.

4.3 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:

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

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) 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 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

| Table S1.1 activities | | | | |
|-----------------------|--|--|--|---|
| Activity reference | WFD Annex I and II operations (where applicable) | Activity listed in Schedule 1 of the EP Regulations | Description of specified activity | Limits of specified activity and waste types |
| A1 | D5 - Specially engineered landfill; R5 - The recycling or reclamation of inorganic material and R10 – Land treatment resulting in benefit to agriculture or ecology. | Section 5.2 Part A(1) (a), The disposal of waste in a landfill. | Landfill for non-hazardous waste and landfill restoration | Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling. |
| A2 | D8 – Biological treatment of waste | Section 5.4, Part A(1)(a)(i), Biological treatment of non-hazardous waste | Treatment of leachate in a facility with a capacity of >50 tonnes/day | Leachate arising from the landfill and other wastes listed in table S2.2. |
| A3 | R5 - The recycling or reclamation of inorganic material | Section 5.3 Part A (1)(a)(vi) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving recycling or reclamation of inorganic materials other than metals or metal compounds | Ex-situ treatment of hazardous waste soils by bioremediation in the Soil repair Centre (SRC) | <p>From treatment of waste in biopiles via bioremediation and addition of additive (off specification compost) to storage of treated waste.</p> <p>Treatment operations shall be limited to blending and mixing (of the waste and additive), and bioremediation of the hydrocarbon contaminated waste only.</p> <p>Waste shall be treated in biopiles using an air extraction system at the base and biofilter to capture and treat any emissions to air. Biopiles will be covered as required e.g. in adverse weather, to maintain temperature/moisture or minimise odour in line with the OMP.</p> <p>The air extraction system associated with the biopiles must be operational during treatment operations (other than during intermittent mixing and turning of the waste).</p> <p>The treatment of waste shall not result in:</p> <ul style="list-style-type: none"> deliberate dilution of hazardous substances |

| Table S1.1 activities | | | | |
|-----------------------|--|---|--|---|
| Activity reference | WFD Annex I and II operations (where applicable) | Activity listed in Schedule 1 of the EP Regulations | Description of specified activity | Limits of specified activity and waste types |
| | | | | <ul style="list-style-type: none"> dilution of POPs <p>All treatment shall take place outside on an impermeable surface with sealed drainage.</p> <p>The treatment will take place in the area shown in Schedule 7.</p> <p>No more than 20,000 tonnes of hazardous and non-hazardous waste shall be treated in aggregate at any one time.</p> <p>No waste types shall be submitted to this activity other than those wastes specified in Schedule 2, Table S2.3.</p> |
| A4 | R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) | Section 5.6 Part A(1)(a) – Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending the treatment listed in Section 5.3 | Storage of hazardous waste soils prior to treatment | <p>From receipt of waste to treatment specified under Activity A3.</p> <p>Storage shall be on an impermeable surface with sealed drainage system.</p> <p>Storage of hazardous waste shall be for no longer than 6 months.</p> <p>Storage of waste types specified in table S2.3.</p> |
| A5 | R3: Recycling/reclamation of organic substances which are not used as solvents | S5.4 A(1) (b) (i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) | Composting of waste under aerobic conditions in open systems such as outdoor turned windrows or aerated static piles on impermeable surface with a sealed drainage system. | <p>From receipt of waste through to composting and recovery of by-products.</p> <p>Waste types suitable for acceptance are limited to those specified in Tables S2.7 and S2.8.</p> |

| Table S1.1 activities | | | | |
|-------------------------------------|---|--|--|---|
| Activity reference | WFD Annex I and II operations (where applicable) | Activity listed in Schedule 1 of the EP Regulations | Description of specified activity | Limits of specified activity and waste types |
| | | involving biological treatment. | | |
| Directly Associated Activity | | | | |
| A6 | N/A | N/A | Management of landfill gas through collection and delivery for utilisation or flaring at another site covered by the Permit EPR/SP3036ZE. This includes the collection and disposal of condensate. | Landfill Gas collection system |
| A7 | N/A | N/A | Temporary storage of waste (leachate); also includes recirculation of leachate in the landfill; and Discharge of untreated leachate and permitted liquid waste from the leachate treatment plant. | Leachate arising from the landfill. Disposal is only from leachate management system to point of entry to sewer. |
| A8 | D6 – release to water body except seas/ oceans | N/A | Discharges of site drainage from the landfill. | From surface water management system to point of entry to controlled waters. |
| A9 | N/A | N/A | Storage of fuel for operation of plant and equipment. | Fuel storage tank. |
| A10 | N/A | N/A | Storage and discharge of surface run-off and effluent from the hazardous waste | From surface water/effluent management systems to point of entry to sewer via the leachate treatment plant. |

| Table S1.1 activities | | | | |
|------------------------------|---|--|---|---|
| Activity reference | WFD Annex I and II operations (where applicable) | Activity listed in Schedule 1 of the EP Regulations | Description of specified activity | Limits of specified activity and waste types |
| | | | storage and treatment areas. | |
| A11 | N/A | N/A | Pre-treatment of waste prior to the treatment specified under Activity A3. | Treatment operations shall be limited to screening and sorting of hydrocarbon contaminated waste only. Treatment operations shall be on an impermeable surface with sealed drainage system. Waste as specified in Table S2.3 |
| A12 | N/A | N/A | Storage of treated non-hazardous waste produced from the bioremediation treatment activities. | Storage shall be on an impermeable surface with sealed drainage system. No more than 25,000 tonnes of treated waste shall be stored on site at any one time. Treated waste shall be stored for no longer than 9 months prior to transfer off-site or transfer to the landfill. |
| A13 | R3 - Recycling/ reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes) R5 - Recycling/ reclamation of other inorganic materials R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced) | N/A | Physical treatment of inert waste and excavation waste (imported restoration soils) for use in the landfill restoration layer | Treatment shall be limited to mechanical sorting, separation, screening and crushing into different components for recovery. Waste shall only be stored to a maximum height of 4m. The activity shall be undertaken within the footprint of the landfill only, unless otherwise agreed in writing with the Environment Agency. The activity shall cease on completion of the landfill restoration. Waste types and quantities as specified in schedule 2, table S2.4. |
| A14 | R13: Storage of waste pending the R3 operation (excluding temporary storage, pending collection, on the site where it is produced) | Storage of waste pending recovery or disposal | Storage of waste on an impermeable surface with a sealed drainage system. | From the receipt of waste to despatch for composting or despatch off site for recovery and/or disposal. |

| Table S1.1 activities | | | | |
|------------------------------|--|--|--|--|
| Activity reference | WFD Annex I and II operations (where applicable) | Activity listed in Schedule 1 of the EP Regulations | Description of specified activity | Limits of specified activity and waste types |
| Waste operations | | | | |
| Activity reference | WFD Annex I and II operations (where applicable) | Description of specified activity | | Limits of specified activity and waste types |
| A15 | R3 - Recycling/ reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes) R4 - Recycling/ reclamation of metals and metal compounds R5 - Recycling/ reclamation of other inorganic materials R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced) | Physical treatment of non-hazardous waste including manual and mechanical sorting/separation, screening, washing, shredding (aggregate recovery) | | Waste types and quantities as specified in schedule 2, table S2.5, Waste types only to be accepted if physically suitable for the process with an inert recoverable aggregate fraction From receipt of waste to treatment and final despatch from the site. Storage and treatment shall be on an impermeable surface with a sealed drainage system. Subject to any other requirements of this permit wastes shall be stored for no longer than 3 years prior to recovery. |
| A16 | R3 - Recycling/ reclamation of organic substances which are not used as solvents | Physical treatment of non-hazardous waste including manual and mechanical sorting/separation, screening and shredding (waste wood storage and treatment) | | From receipt of waste to treatment and final despatch from the site. Storage and treatment shall be on an impermeable surface with a sealed drainage system. Subject to any other requirements of this permit wastes shall be stored for no longer than 1 year prior to disposal or 3 years prior to recovery. Waste types and quantities as specified in schedule 2, table S2.9 |

| Table S1.2 Operating techniques | | |
|---|---|----------------------|
| Description | Parts | Date Received |
| Original PPC Application | <p>The response to questions 2.1, 2.2, 2.3, 2.4, 2.5 and 9.0.1 in part B of the application for the landfill.</p> <p><u>Excluding</u> the control and trigger levels for groundwater submitted in response to part of question 2.2.41 in part B of the application.</p> <p><u>Excluding</u> the control ranges for landfill gas submitted in response to part of question 2.2.47 in part B of the application.</p> <p>The response to questions B2 and B3 in part B of the application for the leachate treatment plant.</p> <p>Other documents subsequently agreed in writing with the Agency between 2004 and 2009.</p> | 3/11/2004 |
| Substantial Variation Application | Application CP3231GJ (EP3136GK/V002) received – all parts | 16/03/2009 |
| Bird Management Plan in response to former Improvement Condition 1 | Bird Management Plan | 02/12/2009 |
| Discharges to Improvement Condition 7 and Pre-operational Condition 5 | RAINHAM LANDFILL SITE Improvement Condition 7 & Pre-Operational Improvement Condition 5 | July 2010 |
| Normal Variation Application | <p>Application JP3637AR (EP3136GK/V004).</p> <p>The response to question 3a in Part B4 of the application form.</p> <p>The response to questions 3b and 3d in Part C2 of the application form.</p> <p>Document 'Environmental Risk Assessment' in support of the application.</p> | 15/07/2015 |
| Application EPR/EP3136GK/V007 | <p>The application documents provided in response to section 3a – technical standards and Appendix 7 of Part C3 of the application form:</p> <ul style="list-style-type: none"> ▪ Perimeter Gas Contingency Action Plan dated September 2017. ▪ Revised permit site plan referenced VES_TD_SOILREP_200_044 showing the location of the SRC. | 01/10/2017 |
| Response to the Schedule 5 Notice dated 01/03/18 | Response to questions 2 – 8, 9 and 11 of the Schedule 5 Notice providing further information on the waste acceptance, rejection and handling procedures, waste types, odour management, abatement system design, procedures for process monitoring and effluent management. | 29/03/2018 |
| Response to the extended Schedule 5 Notice dated 14/05/18 | <p>Response to questions 1, 4, 5, 7, 9 and 10 of the Schedule 5 Notice providing further information on the waste acceptance and rejection procedures, waste types, storage duration for quarantine waste, sampling procedure, procedure for process monitoring, details of instruments for VOCs monitoring etc., including the following documents:</p> <ul style="list-style-type: none"> ▪ Amended Odour Management Plan for the Soil Recovery Centre titled 'Odour Management Plan – Rainham Soil Recovery Centre (Ref: RAINSRC/OMP/V2)', dated May 2018. | 25/05/2018 |

| Table S1.2 Operating techniques | | |
|--|---|-------------------------------------|
| Description | Parts | Date Received |
| | <ul style="list-style-type: none"> ▪ Revised list of wastes table. | |
| Additional information | <ul style="list-style-type: none"> ▪ Document referenced 'Rainham Landfill Site Gas Management and Monitoring Plan 2018'. ▪ Amended environmental monitoring drawing numbers RAI/ENV/939. | 18/06/2018 |
| Additional information | Amended site plan reference RAI/PPC/951-2 | 09/07/2018 |
| Application EPR/EP3136GK/V008 | The application documents provided in response to form C3 section 3a – technical standards and appendix F Environmental Risk Assessment | |
| Responses to Schedule 5 dated 19/08/2021 | <p>Schedule 5 response, Green waste input specification, updated Fire Prevention Plan, dated January 2021, revision 1.2 (September 2021) and supporting documents and green waste input specification</p> <p>Subsequent email response and supporting documents, HACCP and Rainham compost retention area volume</p> | <p>22/09/2021</p> <p>12/10/2021</p> |
| Response to request for information dated 18/11/2021 | Updated Dust and Emissions Management Plan, November 2021, revision 1.2 | 29/11/2021 |
| Application EPR/EP3136GK/V009 | Dust And Emissions Management Plan (Activity A15, Rainham ARF DEMP V1.0), | 30/01/2022 |
| Application EPR/EP3136GK/V010 | <p>The application documents provided in response to section 3a – technical standards and Appendix 7 of Part C3 of the application form:</p> <ul style="list-style-type: none"> ▪ Pre-acceptance and acceptance procedure for the Soil Recovery Centre (SRC). Updated to supersede Application EPR/EP3136GK/V007, updated August 2022. | 19/08/2022 |
| Application EPR/EP3136GK/V011 | Fire Prevention Plan (Application Variation V011 - EP3136GK_RAINHAM ARF_FPP_V2.0 – 15052024) | 30/11/2024 |

| Table S1.3 Improvement programme requirements | | |
|---|--|----------------------------------|
| Reference | Requirement | Date |
| 2 | <p>The operator shall submit a gas monitoring programme for the external boreholes 843, 854-866, 867G, 868, 869, 870G, 871, 872G, 873G, 874G, 875, 877, 880, 881, 883 and 922. The programme shall be designed to demonstrate that landfill gas is not escaping from the installation boundary. The programme shall include:</p> <ol style="list-style-type: none"> 1. A monitoring schedule including frequency of monitoring and parameters to be monitored. 2. The requirement for an annual review of the data to be submitted as part of the annual report. 3. Options for additional monitoring and investigation if there is evidence of gas migration. <p>Once the Environment Agency have agreed the programme this will then become part of the site's operational management system.</p> | Completed |
| 6 | <p>The operator shall submit a report to the Agency reviewing compliance limits for leachate monitoring points LAP929, LAP930, LAP931, LAP932, LAP933, LAP934 along the sea wall. The compliance limits should consider the acceptability of a limit of 3.2mAOD for all of the above boreholes. Where 3.2mAOD is not appropriate the reasons should be outlined in the report and alternative compliance limits shall be proposed.</p> | Completed |
| 7 | <p>The operator shall review groundwater monitoring data in relation to Chromium and assess the implications of matrix interference on the data. Following the review the Operator shall submit a written report for approval by the Environment Agency detailing the findings of the review and includes proposals for control and trigger levels for Chromium for each of the groundwater boreholes with statistical evidence and also includes an appraisal of the options for ensuring reliable analytical results.</p> | Superseded and replaced by IC 10 |
| 9 | <p>The Operator shall submit a Restoration Plan which includes waste quantities, waste types and waste acceptance criteria for wastes for restoration.</p> | Completed |
| 10 | <p>The operator shall:</p> <ul style="list-style-type: none"> ▪ Collect monthly monitoring data for chromium from all of the monitoring points specified in Table S3.3 for a minimum period of 12 months. ▪ Undertake the monitoring in accordance with the Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' published February 2003 (Link). ▪ Establish the background concentrations and propose revised compliance limits to replace the limits for chromium in Table S3.3 and the corresponding action levels using monitoring data from up-gradient groundwater monitoring points. ▪ Where background concentrations of chromium in groundwater are lower than all applicable water quality standards the compliance limits and action levels should be set so as to limit concentrations at the receptor to a point between baseline concentrations and the water quality standard provided it does not lead to a significant and sustained upward trend in the concentration of chromium. | 18/10/2019 |

| Table S1.3 Improvement programme requirements | | |
|---|--|--|
| Reference | Requirement | Date |
| | <ul style="list-style-type: none"> ▪ Submit a written report on the revised chromium compliance limits to the Environment Agency for approval. <p>The revised compliance limits shall become effective from the date written approval is obtained from the Environment Agency.</p> | |
| 11 | The operator shall undertake 6 months of abatement system monitoring for the biofilter to demonstrate that the systems are achieving the emission limits and odour threshold stated in the document reference Air Quality Assessment submitted with the application reference EPR/EP3136GK/V007. | Completed |
| 12 | <p>The operator shall provide a written report detailing the results and conclusions of the monitoring undertaken in accordance with IC11 to the Environment Agency for approval.</p> <p>If the report provided shows that the abatement system is not achieving the emission limits and/or odour threshold, the operator shall review their air quality assessment and submit to the Environment Agency for approval written proposals for alternative abatement systems and/or improvement to the existing systems with timescales for implementation.</p> <p>The operator shall implement the proposals for alternative abatement systems and/or improvement to the existing systems within the timescales agreed with the Environment Agency.</p> | Completed |
| 13 | <p>The operator shall submit written proposals to the Environment Agency for approval detailing a monitoring programme for characterising the facility's effluent discharge to sewer from the SRC via the landfill leachate plant.</p> <p>The proposal shall identify the parameters to be monitored, the location and frequency at which the monitoring will be undertaken and the methods that will be used and ensuring that at least 12 sets of monitoring data are collected over a period of 6 months.</p> <p>The monitoring proposals shall have regard to the Environment Agency's M18 guidance – 'Monitoring of discharges to water and sewer', version 6, dated September 2017 and the web based guidance - 'Surface water pollution risk assessment for your environmental permit', published 1 February 2016; last updated 3 April 2018.</p> | Completed |
| 14 | The operator shall carry out the monitoring programme as approved by the Environment Agency under IC13. | Within 8 months of the Environment Agency approval under of IC13 |
| 15 | Using the data obtained from the monitoring programme under IC14, the operator shall submit to the Environment Agency for approval, an assessment of the discharge to sewer from the SRC via the landfill leachate plant using the H1 tool or equivalent justified methodology to validate the assumptions in the H1 assessment submitted with the application reference EPR/EP3136GK/V007 and a written report detailing the methods, results and conclusions of the monitoring undertaken. | 3 months following the completion of IC14 |

| Table S1.3 Improvement programme requirements | | |
|--|--|-------------|
| Reference | Requirement | Date |
| | <p>If the concentration of any of the assessed substances is found to be 'not insignificant' from the H1 assessment, the operator shall include in the report proposed emission limits for the relevant substances and proposals for ongoing monitoring to replace monitoring requirements in Table S3.11.</p> <p>The proposed emission limits shall become effective from the date written approval is obtained from the Environment Agency. The operator shall implement any proposed changes in monitoring requirements from the date and in accordance with written approval obtained from the Environment Agency.</p> | |

| Table S1.4 Pre-operational measures for future development | | |
|---|---|--|
| Reference | Operation | Pre-operational Measures |
| 3 | Leachate recirculation | <p>Prior to the commencement of any leachate recirculation at the site, the operator shall submit in writing a detailed method statement and impact assessment for approval by the Environment Agency.</p> <p>This should include but not be limited to;</p> <ul style="list-style-type: none"> (a) An assessment of the quantity of leachate to be recirculated and the methodology proposed to be used for reintroduction of the leachate to the waste; (b) A detailed assessment of the potential impact upon stability of the waste mass and final landform as a result of recirculation and increased waste moisture content. (c) An assessment of the rise in leachate heads likely to be observed across the site and appropriate updating of the HRA as required. (d) An assessment of the likely impact on gas production at the site and appropriate updating of the LFGRA as / if required. |
| 4 | <p>Commencement of the bioremediation activity (Activity A3)</p> <p>Completed</p> | <p>Prior to the commencement of the bioremediation treatment activity, the operator shall install all concrete surfacing and associated infrastructure including drainage systems, lagoon and demonstrate to the Environment Agency for written agreement that the systems have been installed to an appropriate CQA standard and signed off by an appropriately qualified person.</p> |

| Table S1.4 Pre-operational measures for future development | | |
|---|---|---|
| Reference | Operation | Pre-operational Measures |
| 5 | Acceptance of waste EWC codes 10 01 01, 10 01 02, 10 13 04, 10 13 13, 19 02 03, 19 05 01, 19 05 02, 19 05 99, 19 06 04, 19 06 06, 19 08 99 and 19 13 02 | <p>Prior to accepting any of these twelve waste types at the site as specified in Table S2.6, the operator shall provide detail of the specific site producing each waste type and a justification for using that waste type in the restoration of the landfill.</p> <p>In addition, the operator shall review and update the existing Restoration Plan for the site by identifying:</p> <ul style="list-style-type: none"> ▪ the risks associated with each of the waste types; ▪ measures on how to control the identified risks; and ▪ end use point of each of the waste types. <p>These wastes shall not be accepted at the site until written approval has been given by Environment Agency.</p> |
| 6 | Waste wood storage and treatment | At least 2 months prior to the composting and wood treatment pad operating fixed shredding and tromeing plant the Operator shall submit a proposal for the control of emissions from such plant, for approval by the Environment Agency. |
| 7 | Acceptance of waste streams for treatment. | Before the acceptance of any waste streams in table S2.8, the operator shall submit a robust characterisation and assessment of those wastes as required by BATc 2a and Framework Guidance Note – Framework for assessing suitability of wastes going to anaerobic digestion, composting and biological treatment (July 2013, for assessment by the Environment Agency. This must include laboratory analysis of the waste stream and an assessment to demonstrate that the waste streams are suitable for biological treatment by open windrow composting. |

| Table S1.5 Annual waste input limits for landfill activity A1 | |
|--|---------------------------|
| Category | Limit Tonnes/ Year |
| Non-hazardous waste | 1,000,000 |
| Inert waste | 700,000 |
| Waste for restoration | 1,000,000 |

Schedule 2 – List of permitted wastes

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|---|---|
| Waste code | Description |
| 01 | Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals |
| 01 01 | wastes from mineral excavation |
| 01 01 01 | wastes from mineral metalliferous excavation |
| 01 01 02 | wastes from mineral non-metalliferous excavation |
| 01 03 | wastes from physical and chemical processing of metalliferous minerals |
| 01 03 08 | dusty and powdery wastes other than those mentioned in 01 03 07 |
| 01 03 09 | red mud from alumina production other than the wastes mentioned in 01 03 10 |
| 01 04 | wastes from physical and chemical processing of non-metalliferous minerals |
| 01 04 08 | waste gravel and crushed rocks other than those mentioned in 01 04 07 |
| 01 04 09 | waste sand and clays |
| 01 04 10 | dusty and powdery wastes other than those mentioned in 01 04 07 |
| 01 04 11 | wastes from potash and rock salt processing other than those mentioned in 01 04 07 |
| 01 04 12 | tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11 |
| 01 04 13 | wastes from stone cutting and sawing other than those mentioned in 01 04 07 |
| 01 05 | drilling muds and other drilling wastes |
| 01 05 04 | freshwater drilling muds and wastes |
| 01 05 07 | barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 |
| 01 05 08 | chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 |
| 02 | Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing |
| 02 01 | wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing |
| 02 01 03 | plant-tissue waste |
| 02 01 04 | waste plastics (except packaging) |
| 02 01 06 | animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site |
| 02 01 07 | wastes from forestry |
| 02 01 10 | waste metal |
| 02 02 | wastes from the preparation and processing of meat, fish and other foods of animal origin |
| 02 02 01 | sludges from washing and cleaning |
| 02 02 03 | materials unsuitable for consumption or processing |
| 02 02 04 | sludges from on-site effluent treatment |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|--|---|
| Waste code | Description |
| 02 03 | wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation |
| 02 03 01 | sludges from washing, cleaning, peeling, centrifuging and separation |
| 02 03 04 | materials unsuitable for consumption or processing |
| 02 03 05 | sludges from on-site effluent treatment |
| 02 05 | wastes from the dairy products industry |
| 02 05 01 | materials unsuitable for consumption or processing |
| 02 05 02 | sludges from on-site effluent treatment |
| 02 06 | wastes from the baking and confectionery industry |
| 02 06 01 | materials unsuitable for consumption or processing |
| 02 06 02 | wastes from preserving agents |
| 02 06 03 | sludges from on-site effluent treatment |
| 02 07 | wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa) |
| 02 07 03 | wastes from chemical treatment |
| 02 07 04 | materials unsuitable for consumption or processing |
| 02 07 05 | sludges from on-site effluent treatment |
| 03 | Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard |
| 03 01 | wastes from wood processing and the production of panels and furniture |
| 03 01 01 | waste bark and cork |
| 03 01 05 | sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04 |
| 03 03 | wastes from pulp, paper and cardboard production and processing |
| 03 03 01 | waste bark and wood |
| 03 03 05 | de-inking sludges from paper recycling |
| 03 03 07 | mechanically separated rejects from pulping of waste paper and cardboard |
| 03 03 08 | wastes from sorting of paper and cardboard destined for recycling |
| 03 03 09 | lime mud waste |
| 03 03 10 | fibre rejects, fibre-, filler- and coating-sludges from mechanical separation |
| 03 03 11 | sludges from on-site effluent treatment other than those mentioned in 03 03 10 |
| 04 | Wastes from the leather, fur and textile industries |
| 04 01 | wastes from the leather and fur industry |
| 04 01 01 | fleshings and lime split wastes |
| 04 01 02 | liming waste |
| 04 01 08 | waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium |
| 04 01 09 | wastes from dressing and finishing |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|--|---|
| Waste code | Description |
| 04 02 | wastes from the textile industry |
| 04 02 09 | wastes from composite materials (impregnated textile, elastomer, plastomer) |
| 04 02 10 | organic matter from natural products (for example grease, wax) |
| 04 02 15 | wastes from finishing other than those mentioned in 04 02 14 |
| 04 02 17 | dyestuffs and pigments other than those mentioned in 04 02 16 |
| 04 02 20 | sludges from on-site effluent treatment other than those mentioned in 04 02 19 |
| 04 02 21 | wastes from unprocessed textile fibres |
| 04 02 22 | wastes from processed textile fibres |
| 05 | Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal |
| 05 01 | wastes from petroleum refining |
| 05 01 16 | sulphur-containing wastes from petroleum desulphurisation |
| 05 01 17 | bitumen |
| 05 06 | wastes from the pyrolytic treatment of coal |
| 05 06 04 | waste from cooling columns |
| 05 07 | wastes from natural gas purification and transportation |
| 05 07 02 | wastes containing sulphur |
| 06 | Wastes from inorganic chemical processes |
| 06 03 | wastes from the MFSU of salts and their solutions and metallic oxides |
| 06 03 14 | solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 |
| 06 03 16 | metallic oxides other than those mentioned in 06 03 15 |
| 06 05 | sludges from on-site effluent treatment |
| 06 05 03 | sludges from on-site effluent treatment other than those mentioned in 06 05 02 |
| 06 06 | wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes |
| 06 06 03 | wastes containing sulphides other than those mentioned in 06 06 02 |
| 06 09 | wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes |
| 06 09 02 | phosphorous slag |
| 06 09 04 | calcium-based reaction wastes other than those mentioned in 06 09 03 |
| 06 11 | wastes from the manufacture of inorganic pigments and opacifiers |
| 06 11 01 | calcium-based reaction wastes from titanium dioxide production |
| 06 13 | wastes from inorganic chemical processes not otherwise specified |
| 06 13 03 | carbon black |
| 07 | Wastes from organic chemical processes |
| 07 01 | wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals |
| 07 01 12 | sludges from on-site effluent treatment other than those mentioned in 07 01 11 |
| 07 02 | wastes from the MFSU of plastics, synthetic rubber and man-made fibres |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|--|--|
| Waste code | Description |
| 07 02 13 | waste plastic |
| 07 05 | wastes from the MFSU of pharmaceuticals |
| 07 05 14 | solid wastes other than those mentioned in 07 05 13 |
| 08 | Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks |
| 08 01 | wastes from MFSU and removal of paint and varnish |
| 08 01 14 | sludges from paint or varnish other than those mentioned in 08 01 13 |
| 08 02 | wastes from MFSU of other coatings (including ceramic materials) |
| 08 02 01 | waste coating powders |
| 08 03 | wastes from MFSU of printing inks |
| 08 03 13 | waste ink other than those mentioned in 08 03 12 |
| 08 03 15 | ink sludges other than those mentioned in 08 03 14 |
| 08 03 18 | waste printing toner other than those mentioned in 08 03 17 |
| 08 04 | wastes from MFSU of adhesives and sealants (including water proofing products) |
| 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09 |
| 08 04 12 | adhesive and sealant sludges other than those mentioned in 08 04 11 |
| 09 | Wastes from the photographic industry |
| 09 01 | wastes from the photographic industry |
| 09 01 07 | photographic film and paper containing silver or silver compounds |
| 09 01 08 | photographic film and paper free of silver or silver compounds |
| 10 | Wastes from thermal processes |
| 10 01 | wastes from power stations and other combustion plants (except 19) |
| 10 01 01 | bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04) |
| 10 01 15 | bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14 |
| 10 01 19 | wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18 |
| 10 01 21 | sludges from on-site effluent treatment other than those mentioned in 10 01 20 |
| 10 01 24 | sands from fluidised beds |
| 10 02 | wastes from the iron and steel industry |
| 10 02 01 | wastes from the processing of slag |
| 10 02 02 | unprocessed slag |
| 10 02 10 | mill scales |
| 10 03 | wastes from aluminium thermal metallurgy |
| 10 03 05 | waste alumina |
| 10 03 18 | carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17 |
| 10 03 20 | flue-gas dust other than those mentioned in 10 03 19 |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|--|--|
| Waste code | Description |
| 10 03 22 | other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21 |
| 10 03 24 | solid wastes from gas treatment other than those mentioned in 10 03 23 |
| 10 03 26 | sludges and filter cakes from gas treatment other than those mentioned in 10 03 25 |
| 10 03 28 | wastes from cooling-water treatment other than those mentioned in 10 03 27 |
| 10 03 30 | wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29 |
| 10 04 | wastes from lead thermal metallurgy |
| 10 04 10 | wastes from cooling-water treatment other than those mentioned in 10 04 09 |
| 10 05 | wastes from zinc thermal metallurgy |
| 10 05 01 | slags from primary and secondary production |
| 10 05 04 | other particulates and dust |
| 10 05 11 | dross and skimmings other than those mentioned in 10 05 10 |
| 10 06 | wastes from copper thermal metallurgy |
| 10 06 01 | slags from primary and secondary production |
| 10 06 02 | dross and skimmings from primary and secondary production |
| 10 06 04 | other particulates and dust |
| 10 07 | wastes from silver, gold and platinum thermal metallurgy |
| 10 07 01 | slags from primary and secondary production |
| 10 07 02 | dross and skimmings from primary and secondary production |
| 10 07 03 | solid wastes from gas treatment |
| 10 07 04 | other particulates and dust |
| 10 07 05 | sludges and filter cakes from gas treatment |
| 10 08 | wastes from other non-ferrous thermal metallurgy |
| 10 08 04 | particulates and dust |
| 10 08 09 | other slags |
| 10 08 11 | dross and skimmings other than those mentioned in 10 08 10 |
| 10 08 13 | carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12 |
| 10 08 16 | flue-gas dust other than those mentioned in 10 08 15 |
| 10 08 18 | sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17 |
| 10 09 | wastes from casting of ferrous pieces |
| 10 09 03 | furnace slag |
| 10 09 06 | casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05 |
| 10 09 08 | casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07 |
| 10 09 10 | flue-gas dust other than those mentioned in 10 09 09 |
| 10 09 12 | other particulates other than those mentioned in 10 09 11 |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|--|---|
| Waste code | Description |
| 10 10 | wastes from casting of non-ferrous pieces |
| 10 10 03 | furnace slag |
| 10 10 06 | casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05 |
| 10 10 08 | casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07 |
| 10 10 10 | flue-gas dust other than those mentioned in 10 10 09 |
| 10 10 12 | other particulates other than those mentioned in 10 10 11 |
| 10 11 | wastes from manufacture of glass and glass products |
| 10 11 03 | waste glass-based fibrous materials |
| 10 11 05 | particulates and dust |
| 10 11 10 | waste preparation mixture before thermal processing, other than those mentioned in 10 11 09 |
| 10 11 12 | waste glass other than those mentioned in 10 11 11 |
| 10 11 14 | glass-polishing and -grinding sludge other than those mentioned in 10 11 13 |
| 10 11 16 | solid wastes from flue-gas treatment other than those mentioned in 10 11 15 |
| 10 11 18 | sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17 |
| 10 11 20 | solid wastes from on-site effluent treatment other than those mentioned in 10 11 19 |
| 10 12 | wastes from manufacture of ceramic goods, bricks, tiles and construction products |
| 10 12 01 | waste preparation mixture before thermal processing |
| 10 12 03 | particulates and dust |
| 10 12 05 | sludges and filter cakes from gas treatment |
| 10 12 06 | discarded moulds |
| 10 12 08 | waste ceramics, bricks, tiles and construction products (after thermal processing) |
| 10 12 10 | solid wastes from gas treatment other than those mentioned in 10 12 09 |
| 10 12 12 | wastes from glazing other than those mentioned in 10 12 11 |
| 10 12 13 | sludge from on-site effluent treatment |
| 10 13 | wastes from manufacture of cement, lime and plaster and articles and products made from them |
| 10 13 01 | waste preparation mixture before thermal processing |
| 10 13 04 | wastes from calcination and hydration of lime |
| 10 13 06 | particulates and dust (except 10 13 12 and 10 13 13) |
| 10 13 07 | sludges and filter cakes from gas treatment |
| 10 13 11 | wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10 |
| 10 13 13 | solid wastes from gas treatment other than those mentioned in 10 13 12 |
| 10 13 14 | waste concrete and concrete sludge |
| 11 | Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|--|--|
| Waste code | Description |
| 11 01 | wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising) |
| 11 01 10 | sludges and filter cakes other than those mentioned in 11 01 09 |
| 11 01 14 | degreasing wastes other than those mentioned in 11 01 13 |
| 11 02 | wastes from non-ferrous hydrometallurgical processes |
| 11 02 03 | wastes from the production of anodes for aqueous electrolytical processes |
| 11 02 06 | wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05 |
| 11 05 | wastes from hot galvanising processes |
| 11 05 01 | hard zinc |
| 11 05 02 | zinc ash |
| 12 | Wastes from shaping and physical and mechanical surface treatment of metals and plastics |
| 12 01 | wastes from shaping and physical and mechanical surface treatment of metals and plastics |
| 12 01 01 | ferrous metal filings and turnings |
| 12 01 02 | ferrous metal dust and particles |
| 12 01 03 | non-ferrous metal filings and turnings |
| 12 01 04 | non-ferrous metal dust and particles |
| 12 01 05 | plastics shavings and turnings |
| 12 01 13 | welding wastes |
| 12 01 15 | machining sludges other than those mentioned in 12 01 14 |
| 12 01 17 | waste blasting material other than those mentioned in 12 01 16 |
| 12 01 21 | spent grinding bodies and grinding materials other than those mentioned in 12 01 20 |
| 15 | Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified |
| 15 01 | packaging (including separately collected municipal packaging waste) |
| 15 01 01 | paper and cardboard packaging |
| 15 01 02 | plastic packaging |
| 15 01 03 | wooden packaging |
| 15 01 04 | metallic packaging |
| 15 01 05 | composite packaging |
| 15 01 06 | mixed packaging |
| 15 01 07 | glass packaging |
| 15 01 09 | textile packaging |
| 15 02 | absorbents, filter materials, wiping cloths and protective clothing |
| 15 02 03 | absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02 |
| 16 | Wastes not otherwise specified in the list |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|--|---|
| Waste code | Description |
| 16 01 | end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08) |
| 16 01 03 | end-of-life tyres |
| 16 01 12 | brake pads other than those mentioned in 16 01 11 |
| 16 01 17 | ferrous metal |
| 16 01 18 | non-ferrous metal |
| 16 01 19 | plastic |
| 16 01 20 | glass |
| 16 02 | wastes from electrical and electronic equipment |
| 16 02 14 | discarded equipment other than those mentioned in 16 02 09 to 16 02 13 |
| 16 02 16 | components removed from discarded equipment other than those mentioned in 16 02 15 |
| 16 03 | off-specification batches and unused products |
| 16 03 04 | inorganic wastes other than those mentioned in 16 03 03 |
| 16 03 06 | organic wastes other than those mentioned in 16 03 05 |
| 16 11 | waste linings and refractories |
| 16 11 02 | carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01 |
| 16 11 04 | other linings and refractories from metallurgical processes other than those mentioned in 16 11 03 |
| 16 11 06 | linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05 |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) |
| 17 01 | concrete, bricks, tiles and ceramics |
| 17 01 01 | concrete |
| 17 01 02 | bricks |
| 17 01 03 | tiles and ceramics |
| 17 01 07 | mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 |
| 17 02 | wood, glass and plastic |
| 17 02 01 | wood |
| 17 02 02 | glass |
| 17 02 03 | plastic |
| 17 03 | bituminous mixtures, coal tar and tarred products |
| 17 03 02 | bituminous mixtures other than those mentioned in 17 03 01 |
| 17 04 | metals (including their alloys) |
| 17 04 01 | copper, bronze, brass |
| 17 04 02 | aluminium |
| 17 04 03 | lead |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|--|---|
| Waste code | Description |
| 17 04 04 | zinc |
| 17 04 05 | iron and steel |
| 17 04 06 | tin |
| 17 04 07 | mixed metals |
| 17 04 11 | cables other than those mentioned in 17 04 10 |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 04 | soil and stones other than those mentioned in 17 05 03 |
| 17 05 06 | dredging spoil other than those mentioned in 17 05 05 |
| 17 05 08 | track ballast other than those mentioned in 17 05 07 |
| 17 06 | insulation materials and asbestos-containing construction materials |
| 17 06 04 | insulation materials other than those mentioned in 17 06 01 and 17 06 03 |
| 17 09 | other construction and demolition wastes |
| 17 09 04 | mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 |
| 18 | Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care) |
| 18 01 | wastes from natal care, diagnosis, treatment or prevention of disease in humans |
| 18 01 04 | wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers) |
| 18 02 | wastes from research, diagnosis, treatment or prevention of disease involving animals |
| 18 02 03 | wastes whose collection and disposal is not subject to special requirements in order to prevent infection |
| 19 | Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use |
| 19 01 | wastes from incineration or pyrolysis of waste |
| 19 01 02 | ferrous materials removed from bottom ash |
| 19 01 12 | bottom ash and slag other than those mentioned in 19 01 11 |
| 19 01 16 | boiler dust other than those mentioned in 19 01 15 |
| 19 01 19 | sands from fluidised beds |
| 19 02 | wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) |
| 19 02 03 | premixed wastes composed only of non-hazardous wastes |
| 19 02 06 | sludges from physico/chemical treatment other than those mentioned in 19 02 05 |
| 19 02 10 | combustible wastes other than those mentioned in 19 02 08 and 19 02 09 |
| 19 03 | stabilised/solidified wastes |
| 19 03 05 | stabilised wastes other than those mentioned in 19 03 04 |
| 19 03 07 | solidified wastes other than those mentioned in 19 03 06 |
| 19 04 | vitrified waste and wastes from vitrification |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|--|---|
| Waste code | Description |
| 19 04 01 | vitrified waste |
| 19 05 | wastes from aerobic treatment of solid wastes |
| 19 05 01 | non-composted fraction of municipal and similar wastes |
| 19 05 02 | non-composted fraction of animal and vegetable waste |
| 19 05 03 | off-specification compost |
| 19 06 | wastes from anaerobic treatment of waste |
| 19 06 04 | digestate from anaerobic treatment of municipal waste |
| 19 06 06 | digestate from anaerobic treatment of animal and vegetable waste |
| 19 08 | wastes from waste water treatment plants not otherwise specified |
| 19 08 01 | screenings |
| 19 08 02 | waste from desanding |
| 19 08 05 | sludges from treatment of urban waste water |
| 19 08 09 | grease and oil mixture from oil/water separation containing only edible oil and fats |
| 19 08 12 | sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11 |
| 19 08 14 | sludges from other treatment of industrial waste water other than those mentioned in 19 08 13 |
| 19 09 | wastes from the preparation of water intended for human consumption or water for industrial use |
| 19 09 01 | solid waste from primary filtration and screenings |
| 19 09 02 | sludges from water clarification |
| 19 09 03 | sludges from decarbonation |
| 19 09 04 | spent activated carbon |
| 19 09 05 | saturated or spent ion exchange resins |
| 19 09 06 | solutions and sludges from regeneration of ion exchangers |
| 19 10 | wastes from shredding of metal-containing wastes |
| 19 10 01 | iron and steel waste |
| 19 10 02 | non-ferrous waste |
| 19 10 04 | fluff-light fraction and dust other than those mentioned in 19 10 03 |
| 19 10 06 | other fractions other than those mentioned in 19 10 05 |
| 19 11 | wastes from oil regeneration |
| 19 11 06 | sludges from on-site effluent treatment other than those mentioned in 19 11 05 |
| 19 12 | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified |
| 19 12 01 | paper and cardboard |
| 19 12 02 | ferrous metal |
| 19 12 03 | non-ferrous metal |
| 19 12 04 | plastic and rubber |
| 19 12 05 | glass |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste, Activity A1, Table S1.1. | |
|--|--|
| Waste code | Description |
| 19 12 07 | wood other than that mentioned in 19 12 06 |
| 19 12 08 | textiles |
| 19 12 09 | minerals (for example sand, stones) |
| 19 12 10 | combustible waste (refuse derived fuel) |
| 19 12 12 | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 |
| 19 13 | wastes from soil and groundwater remediation |
| 19 13 02 | solid wastes from soil remediation other than those mentioned in 19 13 01 |
| 19 13 04 | sludges from soil remediation other than those mentioned in 19 13 03 |
| 19 13 06 | sludges from groundwater remediation other than those mentioned in 19 13 05 |
| 20 | Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions |
| 20 01 | separately collected fractions (except 15 01) |
| 20 01 01 | paper and cardboard |
| 20 01 02 | glass |
| 20 01 08 | biodegradable kitchen and canteen waste |
| 20 01 10 | clothes |
| 20 01 11 | textiles |
| 20 01 25 | edible oil and fat |
| 20 01 28 | paint, inks, adhesives and resins other than those mentioned in 20 01 27 |
| 20 01 30 | detergents other than those mentioned in 20 01 29 |
| 20 01 36 | discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 |
| 20 01 38 | wood other than that mentioned in 20 01 37 |
| 20 01 39 | plastics |
| 20 01 40 | metals |
| 20 01 41 | wastes from chimney sweeping |
| 20 02 | garden and park wastes (including cemetery waste) |
| 20 02 01 | biodegradable waste |
| 20 02 02 | soil and stones |
| 20 02 03 | other non-biodegradable wastes |
| 20 03 | other municipal wastes |
| 20 03 01 | mixed municipal waste |
| 20 03 02 | waste from markets |
| 20 03 03 | street-cleaning residues |
| 20 03 04 | septic tank sludge |
| 20 03 06 | waste from sewage cleaning |
| 20 03 07 | bulky waste |

| Table S2.2 Permitted waste types and quantities accepted for leachate treatment under Activity A2, Table S1.1 | |
|--|--|
| Waste code | Description |
| Maximum quantity | The total quantity of waste accepted for treatment from off-site sources under Activity A2 of Table S1.1 shall not exceed 118,000 tonnes per year |
| 16 | Wastes not otherwise specified in the list |
| 16 10 | aqueous liquid wastes destined for off-site treatment |
| 16 10 02 | aqueous liquid wastes other than those mentioned in 16 10 01 |
| 19 | Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use |
| 19 06 | wastes from anaerobic treatment of waste |
| 19 06 03 | liquor from anaerobic treatment of municipal waste |
| 19 06 05 | liquor from anaerobic treatment of animal and vegetable waste |
| 19 07 | landfill leachate |
| 19 07 03 | landfill leachate other than those mentioned in 19 07 02 |
| 19 13 | wastes from soil and groundwater remediation |
| 19 13 08 | aqueous liquid wastes and aqueous concentrates from groundwater other than those mentioned in 19 13 07 |

| Table S2.3 Permitted waste types and quantities accepted for hazardous waste storage and treatment under Activities A3, A4 and A11, Table S1.1 | |
|---|--|
| Maximum quantity | The total quantity of hazardous waste accepted for storage and treatment under Activities A3, A4 and A11 of Table S1.1 shall not exceed 46,000 tonnes per year |
| Exclusions | Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> ▪ Liquid waste ▪ Consisting solely or mainly of dusts, powders or loose fibres |
| Waste code | Description |
| 05 | Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal |
| 05 01 | wastes from petroleum refining |
| 05 01 06* | oily sludges from maintenance operations of the plant or equipment |
| 05 01 09* | sludges from on-site effluent treatment containing hazardous substances |
| 13 | Oil wastes and wastes of liquid fuels (except edible oils, and those in chapters 05, 12 and 19) |
| 13 05 | oil/water separator contents |
| 13 05 01* | solids from grit chambers and oil/water separators |
| 13 05 08* | mixtures of wastes from grit chambers and oil/water separators |
| 16 | Wastes not otherwise specified in the list |
| 16 07 | wastes from transport tank, storage tank and barrel cleaning (except 05 and 13) |

| Table S2.3 Permitted waste types and quantities accepted for hazardous waste storage and treatment under Activities A3, A4 and A11, Table S1.1 | |
|---|--|
| Maximum quantity | The total quantity of hazardous waste accepted for storage and treatment under Activities A3, A4 and A11 of Table S1.1 shall not exceed 46,000 tonnes per year |
| Exclusions | Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> ▪ Liquid waste ▪ Consisting solely or mainly of dusts, powders or loose fibres |
| 16 07 08* | wastes containing oil |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 03* | soil and stones containing hazardous substances |
| 17 05 05* | dredging spoil containing hazardous substances |
| 17 05 07* | track ballast containing hazardous substances |
| 19 | Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use |
| 19 05 | wastes from aerobic treatment of solid wastes |
| 19 05 03 | off-specification compost (additive to the bioremediation treatment process only) |
| 19 13 | wastes from soil and groundwater remediation |
| 19 13 01* | solid wastes from soil remediation containing hazardous substances |
| 19 13 03* | sludges from soil remediation containing hazardous substances |

| Table S2.4 Permitted waste types for restoration soil treatment under Activity A13, Table S1.1 | |
|---|--|
| Maximum quantity | The total quantity of waste accepted for treatment under Activity A13 of Table S1.1 shall not exceed 400,000 tonnes per year. |
| Exclusions | Notwithstanding the specification of waste types below, wastes shall not be accepted at the site which have any of the following characteristics: <ul style="list-style-type: none"> ▪ Consisting solely or mainly of dusts, powders or loose fibres ▪ Waste that is in a form which is either sludge or liquid |
| Waste code | Description |
| 01 | Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals |
| 01 01 | wastes from mineral excavation |
| 01 01 01 | wastes from mineral metalliferous excavation |
| 01 01 02 | wastes from mineral non-metalliferous excavation |
| 01 04 | wastes from physical and chemical processing of non-metalliferous minerals |
| 01 04 08 | waste gravel and crushed rocks other than those mentioned in 01 04 07 |
| 01 04 09 | waste sand and clays |

| Table S2.4 Permitted waste types for restoration soil treatment under Activity A13, Table S1.1 | |
|---|--|
| Maximum quantity | The total quantity of waste accepted for treatment under Activity A13 of Table S1.1 shall not exceed 400,000 tonnes per year. |
| Exclusions | Notwithstanding the specification of waste types below, wastes shall not be accepted at the site which have any of the following characteristics: <ul style="list-style-type: none"> ▪ Consisting solely or mainly of dusts, powders or loose fibres ▪ Waste that is in a form which is either sludge or liquid |
| Waste code | Description |
| 02 | Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing |
| 02 04 | wastes from sugar processing |
| 02 04 01 | soil from cleaning and washing beet |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) |
| 17 01 | concrete, bricks, tiles and ceramics |
| 17 01 01 | concrete |
| 17 01 03 | tiles and ceramics |
| 17 01 07 | mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 04 | soil and stones other than those mentioned in 17 05 03 |
| 17 05 06 | dredging spoil other than those mentioned in 17 05 05 |
| 17 09 | other construction and demolition wastes |
| 17 09 04 | mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 |
| 20 | Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions |
| 20 03 | other municipal wastes |
| 20 02 02 | soil and stones |
| 20 03 03 | street-cleaning residues (other non-biodegradable wastes) |

| Table S2.5 Permitted waste types treatment and quantities for aggregate recovery as covered by Activity A15, table S1.1 | |
|--|--|
| Waste code | Description |
| Maximum quantity | The total quantity of waste accepted for treatment under Activity A15 of Table S1.1 shall not exceed 150,000 tonnes per year. |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 04 | soil and stones other than those mentioned in 17 05 03 |
| 17 05 06 | dredging spoil other than those mentioned in 17 05 05 |
| 17 05 08 | track ballast other than those mentioned in 17 05 07 |

| Table S2.5 Permitted waste types treatment and quantities for aggregate recovery as covered by Activity A15, table S1.1 | |
|--|--|
| Waste code | Description |
| Maximum quantity | The total quantity of waste accepted for treatment under Activity A15 of Table S1.1 shall not exceed 150,000 tonnes per year. |
| 19 | Wastes from waste management facilities, off site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use |
| 19 02 | wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) |
| 19 02 03 | premixed wastes composed only of non-hazardous wastes |
| 19 05 | wastes from aerobic treatment of solid wastes |
| 19 05 03 | off-specification compost (wastes suitable for the process with an inert recoverable aggregate fraction only) |
| 19 06 | wastes from anaerobic treatment of waste |
| 19 06 04 | digestate from anaerobic treatment of municipal waste (wastes suitable for the process with an inert recoverable aggregate fraction only) |
| 19 06 06 | digestate from anaerobic treatment of animal and vegetable waste (wastes suitable for the process with an inert recoverable aggregate fraction only) |
| 19 08 | wastes from waste water treatment plants not otherwise specified |
| 19 08 02 | waste from desanding |
| 19 08 05 | sludges from treatment of urban waste water (wastes suitable for the process with an inert recoverable aggregate fraction only) |
| 19 12 | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified |
| 19 12 12 | other wastes (including mixtures of material) from mechanical treatment of wastes other than those mentioned in 19 12 11 |
| 19 13 | wastes from soil and groundwater remediation |
| 19 13 04 | sludges from soil remediation other than those mentioned in 19 13 03 |
| 19 13 06 | sludges from groundwater remediation other than those mentioned in 19 13 05 |
| 20 | Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions |
| 20 03 | other municipal wastes |
| 20 03 03 | street-cleaning residues |

| Table S2.6 Permitted waste types for restoration under Activity A1, Table S1.1 | |
|---|--|
| Waste code | Description |
| 01 | Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals |
| 01 01 | wastes from mineral excavation |
| 01 01 02 | wastes from mineral non-metalliferous excavation (chalk only) |
| 01 04 | wastes from physical and chemical processing of non-metalliferous minerals |
| 01 04 08 | waste gravel and crushed rocks other than those mentioned in 01 04 07 |

| Table S2.6 Permitted waste types for restoration under Activity A1, Table S1.1 | |
|---|---|
| Waste code | Description |
| 01 04 09 | waste sand and clays |
| 02 04 | wastes from sugar processing |
| 02 04 01 | soil from cleaning and washing beet |
| 03 | Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard |
| 03 01 | wastes from wood processing and the production of panels and furniture |
| 03 01 01 | waste bark and cork |
| 03 01 05 | sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04 |
| 03 03 | wastes from pulp, paper and cardboard production and processing |
| 03 03 01 | waste bark and wood |
| 03 03 05 | de-inking sludges from paper recycling |
| 03 03 10 | fibre rejects, fibre-, filler- and coating-sludges from mechanical separation |
| 03 03 11 | sludges from on-site effluent treatment other than those mentioned in 03 03 10 |
| 10 | Wastes from thermal processes |
| 10 01 | wastes from power stations and other combustion plants (except 19) |
| 10 01 01 | bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04) |
| 10 01 02 | coal fly ash |
| 10 12 | wastes from manufacture of ceramic goods, bricks, tiles and construction products |
| 10 12 08 | waste ceramics, bricks, tiles and construction products (after thermal processing) |
| 10 13 | wastes from manufacture of cement, lime and plaster and articles and products made from them |
| 10 13 04 | wastes from calcination and hydration of lime |
| 10 13 13 | solid wastes from gas treatment other than those mentioned in 10 13 12 (cement kiln dusts and by-pass dust only) |
| 10 13 14 | waste concrete and concrete sludge |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) |
| 17 01 | concrete, bricks, tiles and ceramics |
| 17 01 01 | concrete |
| 17 01 02 | bricks |
| 17 01 03 | tiles and ceramics |
| 17 01 07 | mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 04 | soil and stones other than those mentioned in 17 05 03 |
| 17 05 06 | dredging spoil other than those mentioned in 17 05 05 |
| 19 02 | wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) |

| Table S2.6 Permitted waste types for restoration under Activity A1, Table S1.1 | |
|---|---|
| Waste code | Description |
| 19 02 03 | premixed wastes composed only of non-hazardous wastes (cement kiln dust and by-pass dust from cement kilns conditioned with water only) |
| 19 05 | wastes from aerobic treatment of solid wastes |
| 19 05 01 | non-composted fraction of municipal and similar wastes |
| 19 05 02 | non-composted fraction of animal and vegetable waste |
| 19 05 03 | off-specification compost |
| 19 05 99 | wastes not otherwise specified (sewage sludge mixed with wood fines) |
| 19 06 | wastes from anaerobic treatment of waste |
| 19 06 04 | digestate from anaerobic treatment of municipal waste |
| 19 06 06 | digestate from anaerobic treatment of animal and vegetable waste |
| 19 08 | wastes from waste water treatment plants not otherwise specified |
| 19 08 01 | screenings |
| 19 08 02 | waste from desanding |
| 19 08 05 | sludges from treatment of urban waste water |
| 19 08 99 | wastes not otherwise specified (Non-hazardous sludges beneficial to restoration but not specified in WM3) |
| 19 09 | wastes from the preparation of water intended for human consumption or water for industrial use |
| 19 09 02 | sludges from water clarification |
| 19 12 | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified |
| 19 12 07 | wood other than that mentioned in 19 12 06 |
| 19 12 09 | minerals (for example sand, stones) |
| 19 12 12 | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (waste derived from onsite treatment only – Activity A13 of Table S1.1) |
| 19 13 | wastes from soil and groundwater remediation |
| 19 13 02 | solid wastes from soil remediation other than those mentioned in 19 13 01 |
| 20 | Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions |
| 20 02 | garden and park wastes (including cemetery waste) |
| 20 02 02 | soil and stones |

| Table S2.7 Permitted waste types and quantities for composting in open systems under Activity A5, Table S1.1 | |
|---|--|
| Maximum quantity | The combined annual throughput of the activities A5 and A16 shall not exceed 150,000 tonnes |
| Exclusions | <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • separately collected loads of plastic unless the whole load is certified compostable to BS EN13432 • co-mingled green and food waste containing more than 5% w/w plastic, unless the plastic is certified compostable to BS EN 13432 • food wastes containing more than 5% w/w plastic unless there is sufficient technology to remove non-compostable plastic prior to treatment from package food waste to a processing limit of 1% w/w or decreasing year on year by 2025. • wastes containing wood-preserving agents or other biocides and post-consumer wood • wastes containing persistent organic pollutants • wastes containing Japanese Knotweed or other invasive plant species listed in the Alien Invasive Species Regulations 2014 • manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. |
| Waste code | Description |
| 02 | Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing |
| 02 01 | wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing |
| 02 01 03 | plant-tissue waste |
| 02 01 06 | animal faeces, urine and manure (including spoiled straw) only |
| 02 01 07 | wastes from forestry (biodegradable only) |
| 02 03 | wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation |
| 02 03 04 | materials unsuitable for consumption or processing (biodegradable only) |
| 02 07 | wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa) |
| 02 07 01 | wastes from washing, cleaning and mechanical reduction of raw materials (biodegradable only) |
| 02 07 02 | wastes from spirits distillation (biodegradable only) |
| 02 07 04 | materials unsuitable for consumption or processing (biodegradable only) |
| 03 | Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard |
| 03 01 | wastes from wood processing and the production of panels and furniture |
| 03 01 01 | waste bark and cork – virgin timber only |
| 03 01 05 | sawdust, shavings, cuttings, wood and particle board other than those mentioned in 03 01 04 – virgin timber only |
| 03 03 | wastes from pulp, paper and cardboard production and processing |
| 03 03 01 | waste bark and wood – virgin timber only |
| 03 03 10 | fibre rejects only – virgin timber and biodegradable only |
| 15 | Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified |

| Table S2.7 Permitted waste types and quantities for composting in open systems under Activity A5, Table S1.1 | |
|---|--|
| Maximum quantity | The combined annual throughput of the activities A5 and A16 shall not exceed 150,000 tonnes |
| Exclusions | <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • separately collected loads of plastic unless the whole load is certified compostable to BS EN13432 • co-mingled green and food waste containing more than 5% w/w plastic, unless the plastic is certified compostable to BS EN 13432 • food wastes containing more than 5% w/w plastic unless there is sufficient technology to remove non-compostable plastic prior to treatment from package food waste to a processing limit of 1% w/w or decreasing year on year by 2025. • wastes containing wood-preserving agents or other biocides and post-consumer wood • wastes containing persistent organic pollutants • wastes containing Japanese Knotweed or other invasive plant species listed in the Alien Invasive Species Regulations 2014 • manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. |
| Waste code | Description |
| 15 01 | packaging (including separately collected municipal packaging waste) |
| 15 01 01 | paper and cardboard packaging (excluding veneers, plastic coatings or laminates) certified to EN 13432 or equivalent standard – compostable packaging only |
| 15 01 02 | plastic packaging – compostable plastics only certified to EN 13432 or equivalent standard – compostable packaging only |
| 15 01 03 | wooden packaging – untreated timber only |
| 15 01 05 | composite packaging – only biodegradable organic packaging certified to EN 13432 or compostable packaging only |
| 15 01 09 | textile packaging (made entirely from biodegradable fibres only) |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 06 | dredging spoil other than those mentioned in 17 05 05 (from inland waters only) |
| 19 | Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use |
| 19 02 | wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) |
| 19 02 03 | premixed wastes composed only of non-hazardous wastes (waste types listed in this table only) |
| 19 05 | wastes from aerobic treatment of solid wastes |
| 19 05 03 | off-specification compost from a composting process that accepts waste input types listed in this table, made up of previously sanitised and stabilised batches only |
| 19 12 | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified |
| 19 12 01 | paper and cardboard (excluding veneers, plastic coatings or laminates) meeting EN 13432 or equivalent certified standard only |

| Table S2.7 Permitted waste types and quantities for composting in open systems under Activity A5, Table S1.1 | |
|---|--|
| Maximum quantity | The combined annual throughput of the activities A5 and A16 shall not exceed 150,000 tonnes |
| Exclusions | <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • separately collected loads of plastic unless the whole load is certified compostable to BS EN13432 • co-mingled green and food waste containing more than 5% w/w plastic, unless the plastic is certified compostable to BS EN 13432 • food wastes containing more than 5% w/w plastic unless there is sufficient technology to remove non-compostable plastic prior to treatment from package food waste to a processing limit of 1% w/w or decreasing year on year by 2025. • wastes containing wood-preserving agents or other biocides and post-consumer wood • wastes containing persistent organic pollutants • wastes containing Japanese Knotweed or other invasive plant species listed in the Alien Invasive Species Regulations 2014 • manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. |
| Waste code | Description |
| 19 12 12 | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (and only including wastes types listed in this table) and made up of previously sanitised /pasteurised and stabilised batches only |
| 20 | Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions |
| 20 01 | separately collected fractions (except 15 01) |
| 20 01 01 | paper and cardboard (excluding veneers, plastic coatings or laminates) meeting EN 13432 or equivalent certified standard |
| 20 01 39 | plastics – compostable plastics only, meeting EN 13432 or equivalent certified standard |
| 20 02 | garden and park wastes (including cemetery waste) |
| 20 02 01 | biodegradable waste (plant matter only) |
| 20 03 | other municipal wastes |
| 20 03 02 | waste from markets (biodegradable only) |

| Table S2.8 Permitted waste types and quantities for open windrow composting under Activity A5, Table S1.1 following approved characterisation | |
|--|---|
| Maximum quantity | The combined annual throughput of the activities A5 and A16 shall not exceed 150,000 tonnes. |
| Waste code | Description |
| 04 | Wastes from the leather, fur and textile industries |
| 04 02 | wastes from the textile industry |
| 04 02 10 | organic matter from natural products (for example grease, wax) |
| 07 | Wastes from organic chemical processes |
| 07 02 | wastes from the MFSU of plastics, synthetic rubber and man-made fibres |

| Table S2.8 Permitted waste types and quantities for open windrow composting under Activity A5, Table S1.1 following approved characterisation | |
|--|--|
| Maximum quantity | The combined annual throughput of the activities A5 and A16 shall not exceed 150,000 tonnes. |
| Waste code | Description |
| 07 02 13 | waste plastic (compostable plastic only, unused and uncontaminated excess production only) |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) |
| 17 02 | wood, glass and plastic |
| 17 02 01 | wood |
| 19 | Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use |
| 19 08 | wastes from waste water treatment plants not otherwise specified |
| 19 08 05 | sludges from treatment of urban waste water |
| 20 | Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions |
| 20 01 | separately collected fractions (except 15 01) |
| 20 01 38 | wood other than that mentioned in 20 01 37 |

| Table S2.9 Permitted waste types and quantities for waste wood storage and treatment as covered by Activity A16, table S1.1 | |
|--|---|
| Waste code | Description |
| Maximum quantity | The combined annual throughput of the activities A5 and A16 shall not exceed 150, 000 tonnes. |
| 02 | Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing |
| 02 01 | wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing |
| 02 01 03 | plant-tissue waste – wood bark only |
| 02 01 07 | wastes from forestry – wood and bark |
| 03 | Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard |
| 03 01 | wastes from wood processing and the production of panels and furniture |
| 03 01 01 | waste bark and cork |
| 03 01 05 | sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04 |
| 03 03 | wastes from pulp, paper and cardboard production and processing |
| 03 03 01 | waste bark and wood |
| 15 | Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified |
| 15 01 | packaging (including separately collected municipal packaging waste) |
| 15 01 03 | wooden packaging |

| Table S2.9 Permitted waste types and quantities for waste wood storage and treatment as covered by Activity A16, table S1.1 | |
|--|--|
| Waste code | Description |
| Maximum quantity | The combined annual throughput of the activities A5 and A16 shall not exceed 150, 000 tonnes. |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) |
| 17 02 | wood, glass and plastic |
| 17 02 01 | wood |
| 17 09 | other construction and demolition wastes |
| 17 09 04 | mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 |
| 19 | Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use |
| 19 12 | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified |
| 19 12 07 | wood other than that mentioned in 19 12 06 |
| 20 | Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions |
| 20 01 | separately collected fractions (except 15 01) |
| 20 01 38 | wood other than that mentioned in 20 01 37 |
| 20 02 | garden and park wastes (including cemetery waste) |
| 20 02 01 | Biodegradable waste (wood and bark only) |

Schedule 3 – Emissions and monitoring

| Table S3.1 Leachate level limits and monitoring requirements | | | |
|--|--------------|----------------------|--|
| Monitoring point reference/ Description [1] | Limit (mAOD) | Monitoring frequency | Monitoring standard and method |
| Operational Cells or Phases (Any cells or phases that do not have a final engineered cap agreed in accordance with the landfill engineering condition, 2.6) | | | |
| 204 | 4.44 | Monthly | As specified in Environment Agency Guidance LFTGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with the Environment Agency, or as otherwise agreed with the Environment Agency as part of a leachate monitoring plan. |
| 228 | 3.79 | | |
| 229 | 4.87 | | |
| 239, 240, 243 | 18.00 | | |
| 242 | 6.30 | | |
| 244 | 3.92 | | |
| 245 | 5.17 | | |
| 293 | 5.87 | | |
| 498 | 3.00 | | |
| 499 | 3.50 | | |
| 539 | 5.37 | | |
| 621 | 5.91 | | |
| 623 | 5.94 | | |
| 628 | 6.18 | | |
| 646 | 5.25 | | |
| 650 | 6.43 | | |
| 670 | 5.24 | | |
| 814 | 4.90 | | |
| 820 | 5.60 | | |
| 824 | 6.62 | | |

| Table S3.1 Leachate level limits and monitoring requirements | | | |
|---|---------------------|-----------------------------|--|
| Monitoring point reference/ Description [1] | Limit (mAOD) | Monitoring frequency | Monitoring standard and method |
| 870L | 6.16 | | |
| 882 | 5.11 | | |
| 922 | 4.63 | | |
| 928 | 4.20 | | |
| Non-Operational Cells or Phases (Any cells or phases that have a final engineered cap agreed in accordance with the landfill engineering condition, 2.6) | | | |
| 205, 207, 569, 571, 573, 578 | 4.20 | 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. Or as otherwise agreed with the Agency as part of a leachate monitoring plan. |
| 235, 241, 482 | 18.00 | | |
| 258 | 6.19 | | |
| 272, 728, 279, 717, 721, 735, 739 | 18.04 | | |
| 575 | 4.40 | | |
| 608 | 4.70 | | |
| 615 | 6.59 | | |
| 617 | 4.41 | | |
| 627 | 4.36 | | |
| 772, 773 | 2.74 | | |
| 775, 778, 779, 780, 781 | 2.50 | | |
| 925, 926, 927, 929, 930, | 4.20 | | |
| 931, 932, 933, 934 | 4.20 | | |
| 950, 953, 959 | 3.00 | | |
| 956 | 2.00 | | |
| [1] As shown on the environmental monitoring drawing no. RAI/ENV/939 dated April 2018. | | | |

Table S3.2 Point source emissions to water (other than sewer) – emission limits and monitoring requirements

| Emission point Ref. & Location* | Parameter | Source | Limit (incl unit) | Reference Period | Monitoring Frequency | Monitoring Standard or Method |
|--|--------------------------|------------------------|--------------------------|-------------------------|-----------------------------|--|
| RAI 015 | Orthophosphate as P | Surface water drainage | 0.1 mg/l as P | Spot sampling | Monthly | In accordance with Environment Agency document LFTGN02 (February 2003) 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water' or such other subsequent guidance as may be agreed in writing with the Environment Agency. |
| RAI 011, 013, 015, 016, 017, 018, 019 | Ammoniacal Nitrogen as N | | 9 mg/l as N | | | |
| | pH | | 6 – 8.5 | | | |
| | Suspended solids | | 100 mg/l | | | |
| | BOD | | 15 mg/l as O | | | |
| | Potassium | | 256 mg/l | | | |
| | Oil and Grease | | Not visible | | | |

* As shown on the environmental monitoring drawing no. RAI/ENV/939 dated April 2018.

Table S3.3 Groundwater – emission limits and monitoring requirements

| Monitoring point reference | Parameter | Limit (including unit) | Reference Period | Monitoring frequency | Monitoring standard or method |
|--|------------------------|------------------------|------------------|----------------------|---|
| 101, 102, 103, 104, 110, 111, 112, 113, 114, 115, 116, 119, 120, 124, 125, 126, 127, 128, 131, 132, 140, 141, 142, 143, 144, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165 As shown on the environmental monitoring drawing no. RAI/ENV/939 dated April 2018. | Cadmium | 1 µg/l | Spot Sample | Quarterly (2) | 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. |
| | Napthalene | 0.4 µg/l | | | |
| | Ethylbenzene | 0.6 µg/l | | | |
| | Cis 1,2-Dichloroethene | 0.1 µg/l | | | |
| | 1,3,5-Trimethylbenzene | 0.6 µg/l | | | |
| | Chromium | 0.015 mg/l (3) | | | |
| GWMP 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165 As shown on the environmental monitoring drawing no. RAI/ENV/939 dated April 2018. | Chromium | (1) | | | |

(1) Limits to be agreed in accordance with Improvement condition 10

(2) Or any other frequency agreed in writing with the Agency.

(3) Aside from locations 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165

Table S3.4 Landfill gas in external monitoring boreholes – limits and monitoring requirements

| Monitoring point Ref. /description [1] | Parameter | Limit (including units) | Monitoring frequency | Monitoring standard or method |
|---|-----------------------|-------------------------|----------------------|--|
| 810-824, 843, 851, 854-866, 867G, 868-870G, 871, 872G-874G, 875, 877, 880, 881, 883 922 | Methane | No limit | Monthly | As specified in Environment Agency Guidance LFTGN03 (September 2004), or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: waterlogged frozen snow covered |
| | Carbon dioxide | No limit | | |
| | Oxygen | No limit | | |
| | Atmospheric pressure | No limit | | |
| | Differential pressure | No limit | | |
| 833, 885 | Methane | 1.1 | | |
| 841, 842, 844 | | 1.0 | | |
| 884 | | 1.4 | | |
| 886 | | 1.5 | | |
| 887 | | No Limit | | |
| 833, 841, 842, 844, 884, 885, 886, 887 | Carbon dioxide | No limit | | |
| | Oxygen | | | |
| | Atmospheric pressure | | | |
| | Differential pressure | | | |

[1] As shown on the environmental monitoring drawing no. RAI/ENV/939 dated April 2018.

| Table S3.5 Landfill gas emissions from capped surfaces for cells that have accepted non-hazardous biodegradable waste – monitoring requirements | | | |
|--|------------------------|---------------------------------------|---|
| Monitoring point Ref. /description | Parameter | Monitoring frequency | Monitoring Standard or method |
| Permanently capped zone | Methane concentration | Every 12 months | As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. |
| Temporarily capped zone | Methane concentration | Every 12 months | As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. |
| Whole site | Total methane emission | As agreed with the Environment Agency | As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. |
| Uncapped areas | Methane concentration | Every 12 months | As agreed with the Environment Agency based on the wording of revised LFTGN 07 or landfill sector guidance or such other subsequent guidance as may be agreed in writing with the Environment Agency. |

| Table S3.6 Groundwater – other monitoring requirements | | | |
|---|---|--|--|
| Monitoring Point Ref./Description | Parameter | Monitoring frequency | Monitoring standard or method |
| Up gradient MEPP | Water level, electrical conductivity, chloride, ammoniacal nitrogen, pH | Quarterly | 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 |
| | total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese | Annually | |
| | Hazardous substances | Annually for first six years of operation | |
| Down or cross gradient MEPP | Water level, electrical conductivity, chloride, ammoniacal nitrogen, pH | Quarterly | 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 After the initial 6 year monitoring period for hazardous substances, if the results of quarterly or annual monitoring suggest an increase in contamination, the operator shall also undertake a full leachate hazardous substances screen. |
| | total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese | Annually | |
| | Hazardous substances detected in leachate | Annually for first six years of operation then every two years | |
| MEPP | Base of monitoring point (mAOD) | Annually | |

Table S3.7 Landfill gas – other monitoring requirements

| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|---|---|---|---|--|
| In waste gas monitoring boreholes or sealed leachate wells or sacrificial gas extraction system | Methane Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure | Monthly until gas extraction commences | Calibrated handheld monitoring instrument | For cells or phases which have no active gas extraction. Gas extraction system shall be installed and extraction commenced once monitoring shows onset of methane production in waste at a rate that can be sustainably extracted. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring. |
| | Hydrogen sulphide | Quarterly | Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (v3 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. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring. Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans |
| Gas collection system at well control valve, manifolds (if applicable) and strategic points on gas system | Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Gas flow rate or suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%) | Monthly or at such other frequency as may be agreed in writing with the Environment Agency. | Calibrated handheld monitoring instrument | Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken. Where the concentration of carbon monoxide exceeds 100ppm then further investigation shall be undertaken Record the ambient air temperature and whether the ground is: waterlogged frozen snow covered |

| Table S3.7 Landfill gas – other monitoring requirements | | | | |
|--|--|-----------------------------|---|--|
| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| Gas collection system at well control valve | Hydrogen sulphide | Six monthly | Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (v3 2010) or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency. | Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans |
| Output to flare or LFG Utilisation Compound | Trace gas | Annually | Trace gas analysis in accordance with LFTGN04 (v3 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. | The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling. |
| Output to flare or LFG Utilisation Compound | Methane Carbon Dioxide Oxygen Gas flow rate Suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%) | Weekly | | Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken. |

| Table S3.8 Leachate – other monitoring requirements | | | | |
|---|--|-----------------------------|--|-----------------------------|
| Monitoring point reference or description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| Operational Cells or Phases (Any cell or phases that do not have a final engineered cap agreed in accordance with condition 2.6) | | | | |
| MEPP | pH, EC, total alkalinity, ammoniacal nitrogen, Chloride, COD, BOD, cadmium, chromium, copper, lead, nickel, iron, arsenic, magnesium, potassium, total sulphates, calcium, sodium, zinc, manganese | Quarterly | At leachate compliance points as listed in table S3.1. 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 | None |
| MEPP | Hazardous substances | Annually | | |
| MEPP | Depth to base (mAOD) | Annually | | |
| Non-Operational Cells or Phases (Any cell or phases that have a final engineered cap agreed in accordance with condition 2.6) | | | | |
| MEPP | pH, EC, total alkalinity, ammoniacal nitrogen, Chloride, COD, BOD, cadmium, chromium, copper, lead, nickel, iron, arsenic, magnesium, potassium, total sulphates, calcium, sodium, zinc, manganese | Annually | At leachate compliance points as listed in table S3.1. 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 | None |
| MEPP | Hazardous substances | Once every four years | | |
| MEPP | Depth to base (mAOD) | Annually | | |

| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|---|---|-----------------------------|--------------------------------------|---|
| MEPP | Ammoniacal nitrogen Chloride Suspended Solids Visual Oil and Grease pH Electrical conductivity | Monthly | 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</u> (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency. |

| Emission point ref. & location | Source | Parameter | Limit (including unit) (1) | Reference period | Monitoring frequency | Monitoring standard or method |
|---|---|---------------------------|-----------------------------------|---|-----------------------------|--------------------------------------|
| Biofilter exhaust | Channelled emissions such as odour abatement stack or vent(s) | Odour concentration | 1000 ouE/m ³ | -- | Once every 6 months | BS EN 13725 |
| | | Particulate Matter (Dust) | No limit set | Average value of 3 consecutive measurements of at least 30 minutes each | Once every 6 months | EN 13284-1 |
| | | TVOCs | No limit set | | | BS EN 12619 |
| | | Speciated VOCs | No limit set | | | CEN TS 13649 |

| Emission point ref. & location | Source | Parameter | Limit (incl. Unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|---|---|------------------|---------------------------|-------------------------|-----------------------------|--------------------------------------|
| At the lagoon and outlet section of the Landfill Leachate Treatment Plant. OWC drains to treatment system as shown on RAI/PLA/960 | Site effluent collected at the SRC lagoon and landfill leachate | - | - | - | - | - |

| Location or description of point of measurement | Parameter | Bioaerosols action levels (CFU m⁻³) | Monitoring frequency | Monitoring standard or method | Other specifications |
|--|-----------------------|---|---|--|---|
| Upwind of the operational area, as described in the Technical Guidance Note M9 | Total bacteria | 1000 ^{Note 1} | Twice a year, unless otherwise advised in writing by the Environment Agency ^{Note 2} | In accordance with Technical Guidance Note M9 – Environmental monitoring of bioaerosols at regulated facilities. | As described in the Technical Guidance Note M9, including all the additional data requirements specified therein. |
| Downwind of the operational area, as described in the Technical Guidance Note M9 | Aspergillus Fumigatus | 500 ^{Note 1} | | | |

Note 1 – The bioaerosols action levels are only applicable at downwind sampling locations equivalent to the distance of the nearest sensitive receptor. Where these action levels are elevated, the operator must take action to mitigate the impact on sensitive receptors. Assessment of compliance will be based on risk and in line with guidance.

Note 2. Where the bioaerosols action levels are exceeded, then monitoring remain quarterly until such time that it is demonstrated that the site has adequate mitigation for a 12 month period.

Table S3.13 Process monitoring requirements for biofilter

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|---|---|---|---|---|
| Closed biofilter emission point | Gas temperature – inlet and outlet | Daily | Temperature probe / Traceable to national standards | Odour abatement plant shall be regularly checked and maintained to ensure appropriate temperature and moisture content. |
| | Biofilter media moisture | Daily | Moisture meter or recognised industry method | |
| | Thatching /compaction | Weekly | Back pressure | |
| | Gas flow rate – inlet and outlet | Continuous | Gas flow meter / EN 16911-1 and MID for EN 16911-1 | |
| | pH (biofilter drainage effluent) | Daily | pH meter | Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency. |
| | Efficiency assessment | Annual | Media health, air-flow distribution and emission removal efficiency (BS EN 13725 for odour removal) | |
| | Odour concentration – inlet and outlet gas stream | Every 6 months or as agreed in writing by the Environment Agency. | BS EN 13725 | |

| Table S3.14 Process monitoring requirements for open windrow composting | | | | |
|--|--|--|---|--|
| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| Meteorological conditions | Wind speed, Air temperature, Wind direction | Continuous | As specified in the Environmental Management System | Weather station or anemometer and wind sock |
| Stock piles prior to composting including screened and shredded material | Temperature | Daily prior to processing | Temperature probe | Monitoring equipment shall be available on site and used as required to maintain aerobic conditions and ensure compliance with these standard rules. Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency. Uncontrolled self-heating and decomposition must be prevented in accordance with the Accident Management Plan and/or Fire Prevention Plan. Process shall be controlled in accordance with permit condition 3.3 and the Odour Management Plan. Sampling of waste shall be in accordance with EN14899. |
| | Moisture | Daily prior to processing | Squeeze test, or drying oven in accordance with BS EN 13040 | |
| | C:N Total Organic Carbon and Total Kjeldahl Nitrogen | As agreed in the Environmental Management System | Total Organic Carbon using recognised industry method Total Kjeldahl Nitrogen in accordance with BS EN 13654-1 | |

| Table S3.14 Process monitoring requirements for open windrow composting | | | | |
|--|---|--|--|---|
| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| | | | | Anaerobic conditions shall be prevented. |
| | Fly infestation or pupa formation | Daily – for stock piles in storage prior to preparation and stock piles in sanitisation stage Weekly – for stock piles in stabilisation stage | Visual inspection | Records of fly count must be maintained as necessary and infested waste should be rejected in accordance waste acceptance procedures and in accordance with permit condition 3.7. |
| Representative internal core for each composting batch during sanitisation and stabilisation stage | Temperature | Daily | Temperature probe Temperature probe shall record core waste temperature and probe placement must be sufficient to record temperature uniformly. | Monitoring equipment shall be available on site and used as required to maintain aerobic conditions and ensure compliance with this permit. Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency. |
| | Moisture | Daily during sanitisation and stabilisation stage | Squeeze test, or drying oven in accordance with BS EN 13040 | Process shall be controlled in accordance with permit condition 3.3 and the Odour Management Plan. |
| | C:N Total Organic Carbon and Total Kjeldahl Nitrogen | As agreed in the Environmental Management System | Total Organic Carbon using recognised industry method Total Kjeldahl Nitrogen in accordance with BS EN 13654-1 | Sampling of waste shall be in accordance with EN14899. Anaerobic conditions shall be prevented. |
| | Temperature | Once per week | Temperature probe | |

| Table S3.14 Process monitoring requirements for open windrow composting | | | | |
|--|------------------|-----------------------------|--|---|
| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| Representative internal core for each composting batch during further maturation stage | | | Temperature probe shall record core waste temperature and probe placement must be sufficient to record temperature uniformly | Process shall be controlled in accordance with permit condition 3.3 and the Odour Management Plan. |
| | Moisture | Once per week | Squeeze test, or drying oven in accordance with BS EN 13040 | |
| Internal core for oversize storage piles | Temperature | Once per week | Temperature probe As specified in the Environmental Management System | Uncontrolled self-heating and decomposition must be prevented in accordance permit condition 3.8, the Fire Prevention Plan and/or Accident Management Plan. |
| Leachate and dirty water storage capacity | Level | At least daily | Visual or capacity measurement | - |
| Waste reception building; Storage tank(s); Maturation area | Odour | Daily | Olfactory monitoring | Odour detection at the site boundary |
| Storage tank(s) | Integrity checks | Weekly | Visual assessment | - |

Schedule 4 – Reporting

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

| Table S4.1 Reporting of monitoring data | | |
|---|--|---|
| Parameter | Reporting period | Period ends |
| Leachate level As specified by schedule 3, table S3.1 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Point source emission to water (other than sewer) As specified by schedule 3, table S3.2 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Emission to groundwater As specified by schedule 3, table S3.3 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Landfill gas in external monitoring boreholes As specified by schedule 3, table S3.4 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Emission of landfill gas from capped surfaces As specified by schedule 3, table S3.5 | Every 12 months | 31 December |
| Other groundwater monitoring As specified by schedule 3, table S3.6 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Other Landfill gas monitoring As specified by schedule 3, table S3.7 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Trace gas monitoring | Every 12 months | 31 December |
| Other leachate monitoring As specified by schedule 3, table S3.8 | Every 12 months | 31 December |
| Other surface water monitoring As specified by schedule 3, table S3.9 | Every 12 months | 31 December |
| Meteorological data Landfill Directive, annex III, section 2 | Every 12 months | 31 December |
| Point source emission to air As specified by schedule 3, table S3.10 | Every 6 months | 31 March, 30 September |
| Point source emission to sewer As specified by schedule 3, table S3.11 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Bioaerosols monitoring Parameters as required by condition 3.5.1 As specified in schedule 3 table S3.12 | Twice a year unless otherwise advised in writing by the Environment Agency | 1 January, 1 July |
| Process monitoring of biofilter performance As specified by schedule 3, table S3.13 | Every 6 months | 31 March, 30 September |

| Table S4.1 Reporting of monitoring data | | |
|--|-------------------------|--------------------|
| Parameter | Reporting period | Period ends |
| Process monitoring Parameters as required by condition 3.5.1 As specified in schedule 3 tables S3.14 | Every 12 months | 1 January |
| * - where the reporting period is 12 months, you may submit this information as part of the 'annual report' required by condition 4.2.2. | | |

| Table S4.2: Annual production/treatment | |
|--|---|
| Parameter | Units |
| Leachate: Disposed of off-site; Disposed of to any onsite effluent treatment plant; Recirculated into the waste mass. Accepted from offsite for treatment at any onsite effluent treatment plant. | Cubic metres/year |
| Landfill gas: combustion in flares; combustion in gas engines; Other methods of gas utilisation. Average methane content entering the landfill gas utilisation or treatment compound (based on the annual average of Table S3.10 monitoring) Methane generation rate (50%ile from a representative model) | Normalised cubic metres/year % methane v/v m ³ /hr |
| Recovered restoration soils from the SRC and other soil treatment activities | tonnes |
| Processed compost | tonnes |
| Non-waste outputs | tonnes |
| Wood processed | tonnes |

| Table S4.3 Performance Parameters | | |
|--|--------------------------------|-----------------------------------|
| Parameter | Frequency of assessment | Unit |
| Energy used (including for leachate treatment) | Annually | MWh of electricity or natural gas |
| Water usage | Annually | tonnes or m ³ |
| Total raw material used | Annually | tonnes |

| Table S4.4 Reporting Forms | | |
|-----------------------------------|---|---------------------|
| Media/parameter | Reporting Format | Date of Form |
| Leachate | Form leachate 1 or other reporting format to be agreed in writing with the Environment Agency | 18/02/2016 |
| Controlled water | Form Water 1 or other reporting format to be agreed in writing with the Environment Agency | 18/02/2016 |

| Table S4.4 Reporting Forms | | |
|---|---|---------------------|
| Media/parameter | Reporting Format | Date of Form |
| Groundwater | Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency | 18/02/2016 |
| Landfill gas | Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency | 18/02/2016 |
| Waste Return | E-waste Returns Form or other email returns | - |
| Landfill topographical surveys and interpretation | Reporting format to be agreed in writing with the Environment Agency | 18/02/2016 |
| Air | Form air 1 or other form as agreed in writing by the Environment Agency | 18/07/2018 |
| Sewer | Form sewer 1 or other form as agreed in writing by the Environment Agency | 18/07/2018 |
| Other performance indicators | Form performance 1 or other form as agreed in writing by the Environment Agency | 18/07/2018 |
| Bioaerosols | As specified in the Technical Guidance Note M9 or other form as agreed in writing by the Environment Agency | 21/01/2022 |

Schedule 5 – Notification

This page outlines the information that the operator must provide.

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

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

Part A

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

| | |
|---|--|
| (a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution | |
| To be notified within 24 hours of detection | |
| Date and Time of the event | |
| Reference or description of the location of the event | |
| Description of where any release into the environment took place | |
| Substances(s) potentially released | |
| Best estimate of the quantity or rate of release of substances | |
| Measures taken, or intended to be taken, to stop any emission | |
| Description of the failure or accident. | |

| | |
|---|--|
| (b) Notification requirements for the breach of a limit | |
| To be notified within 24 hours of detection unless otherwise specified below | |
| Emission point reference/ source | |
| Parameter(s) | |
| Limit | |
| Measured value and uncertainty | |
| Date and time of monitoring | |

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

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

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

Part B to be supplied 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.

“annually” means once every year.

“accident management plan” means a plan that identifies risks and failures which can have an impact on the environment or have environmental consequences. The plan forms part of the management system. The plan must minimise the potential causes and consequences and identify clearly the roles, responsibilities and action to be taken to minimise the consequences of accidents. This includes measures to prevent and control fires on site, DSEAR assessment and clearly marked zones.

“Animal By-Products Regulations” means The Animal By-Products (Enforcement) (England) Regulations 2013 (SI 2013 No.2952).

“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.

“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.

“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.

(a) “Cell layout drawing” means: A drawing or drawings of the proposed new cell that illustrate(s) in sufficient detail:

- (i) the location of the new cell on the site;
- (ii) the proposed level (Above Ordnance Datum) of the base of the excavation;
- (iii) the proposed finished levels of all containment and leachate drainage layers;
- (iv) the positions of leachate management infrastructure; and
- (v) the positions of landfill gas infrastructure (if appropriate).

(b) A detailed written explanation of any minor design changes from the most recently approved cell that result from the new cell layout. This would include, for example:

- (i) changes to slope length and gradient within the cell;
- (ii) new leachate or landfill gas infrastructure construction design;
- (iii) slope stability issues such as new basal excavation level; and/or
- (iv) depth of waste.

“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 the 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 high general level of protection of the environment as a whole.

"bioaerosols action levels" means the maximum acceptable bioaerosol concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the biowaste treatment operations, which are attributable to the biowaste treatment operations. The maximum acceptable concentrations are respectively 1000 and 500 CFU m⁻³ for total bacteria and *Aspergillus fumigatus*. Where these action levels are elevated, the operator must take action to mitigate the impact on sensitive receptors.

"biodegradable" means a material is capable of undergoing biological anaerobic or aerobic degradation leading to the production of CO₂, H₂O, methane, biomass and mineral salts depending on the environmental conditions of the process.

"building" means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

"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.

"competent persons and resources" means that a technically competent person accredited to a relevant scheme must attend site and record their attendance, and that all roles and responsibilities are clearly stated in the management systems along with records of operatives' training.

"compost" means solid particulate material that is the result of composting, which has been sanitised and stabilised, and which confers beneficial effects when added to soil, used as a component of growing media or used in another way in conjunction with plants.

"compostable plastics" means plastics that are certified to meet the standards of EN 13432, EN 14995 or equivalent.

"composting" means the biological decomposition of organic materials, under conditions that are predominantly aerobic and that allow the development of thermophilic temperatures as a result of biologically produced heat and that result in compost.

"composting batch" means an identifiable quantity of material that progresses through the composting system and when fully processed has similar characteristics throughout. For composting systems that operate on a continuous or a plug-flow basis, batches will be taken to mean a series of "portions of production".

"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 New Cell or Landfill Infrastructure.

"CQA Validation Report" means the final "as built" construction and engineering details of the New Cell or of the Landfill 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 New Cell or Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

“disposal” means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations 2016, SI 2016 No.1154 and words and expressions used in this permit which are also used in those 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.

“emissions to land” includes emissions to groundwater

“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.

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

“hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“hazardous substances” as defined by the Environmental Permitting (England and Wales) Regulations 2016, SI 2016 No.1154, schedule 22 and listed in our Hydrogeological risk assessment guidance.

“hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

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

“incidental contamination” means low levels of incidental waste, for example plastic that may be contained within the feedstock waste.

“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.

“inert waste” means waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater

“Landfill Infrastructure” means any specified element of the:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;
- leachate transfer, treatment and storage systems;
- surface water drainage systems;

- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems;
- lining within the installation.

within the site.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

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

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

“maturation” means a stage when by agitating and turning the compost, it no longer results in reheating and the monitored temperature falls to ambient without the compost being too dry or anaerobic. Phytotoxin that are formed during the active composting phase are metabolised by microorganisms, which will result in the final material not being too harmful to plants. This usually coincides with a drop in pH toward neutral, and the conversion of ammonia into nitrates and recolonization of beneficial microorganisms. The maturation phase may need active management by turning to prevent the material becoming anaerobic.

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

“medicinal product” means any medicine licensed by the Medicines and Healthcare products Regulatory Agency (MHRA) or their predecessors under the Medicines Act 1968, section 130.

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

“new cell” means any new cell, part of a cell or other similar new area of the site where waste deposit is to commence after issue of this permit and can comprise:

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;
- liners;
- leachate collection system;
- leachate abstraction system;
- separation bund/layer;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the New Cell.

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

“pests” means Birds, Vermin and Insects.

“pollution” means emissions as a result of human activity which may-

- (a) be harmful to human health or the quality of the environment,

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

“post-consumer wood” means manufactured treated wooden materials and products that have been discarded.

“previous year” means the 12 month period preceding the month the annual report is submitted in.

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

“relevant waste acceptance procedures” means the procedure for the acceptance of waste at landfills and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

“relevant waste acceptance criteria” means the waste acceptance criteria and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

“review of the Hydrogeological Risk Assessment” means a written review of the hydrogeological risk assessment included in the Application, together with any other parts of the Application that addressed the requirements of the EP Regulations. The review shall assess whether the activities of disposal or tipping for the purpose of disposal of waste authorised by the permit continue to meet the requirements of the EP Regulations.

“sealed drainage system” in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquids will run off the surface otherwise than via the system
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged to foul sewer.

“secondary containment” – means a systems that is capable of containing loss from all above ground and underground storage tanks and that complies with CIRIA standard 736 or equivalent standard of design and construction.

“stable, stabilised” means the degree of processing and biodegradation at which the rate of biological activity has slowed to an acceptably low and consistent level and will not significantly increase under favourable, altered conditions.

“stabilisation stage” means the stage of composting following sanitisation, during which biological conditions in the composting mass, give rise to compost that is nominally stable. Soluble carbon is usually not fully used and material is still considered to be in treatment. This stage is a managed process to prevent odours, dust and bioaerosols. There is also a residual risk of reheating and leachate breakout.

‘sustainably extracted’ means where suction can be applied to the extraction wells such that a flow rate of landfill gas, with a methane content capable of either being combusted, or treated by bio-oxidation, can be extracted without increasing the risk of air ingress to the waste or inducing aerobic degradation within the waste.

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

“year” means calendar year ending 31 December.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means the standards included in Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08

Where the following terms appear in the waste code list in Tables S2.1, S2.2, S2.3, S2.4, S2.5 or S.2.6 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;

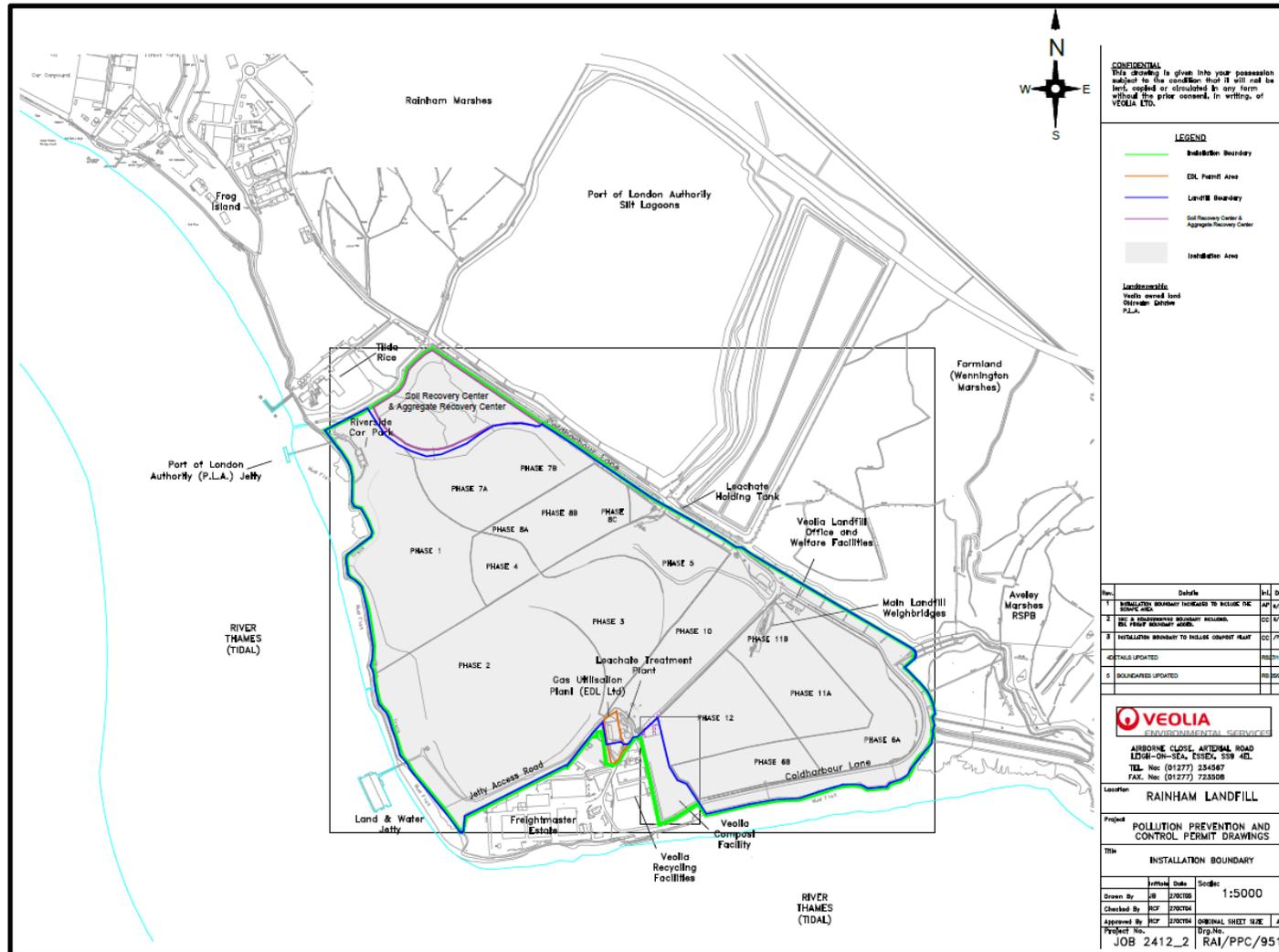
'transition metals' means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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

Schedule 7 – Site plan



CONFIDENTIAL
 This drawing is given into your possession subject to the condition that it will not be lent, copied or distributed in any form without the prior consent, in writing, of VEOLIA LTD.

LEGEND

- Installation Boundary
- EDL Permit Area
- Landfill Boundary
- Soil Recovery Center & Aggregate Recovery Center
- Installation Area

Landmarks
 Veolia owned land
 Other
 P.L.A.

| No. | Details | Iss. Date |
|-----|---|-----------|
| 1 | INSTALLATION BOUNDARY CHANGED TO INCLUDE THE OTHER SIDE | 04/01/74 |
| 2 | SEE A SUPPLEMENTARY BOUNDARY RECORD FOR THE OTHER SIDE | 02/01/74 |
| 3 | INSTALLATION BOUNDARY TO INCLUDE COUNTY ROAD | 02/01/74 |
| 4 | DETAILS UPDATED | 02/01/74 |
| 5 | BOUNDARIES UPDATED | 02/01/74 |

VEOLIA
 ENVIRONMENTAL SERVICES

ARBORING CLOSE, AIRPORT ROAD
 LEIGH-ON-SEA, ESSEX, SS9 4EL
 TEL. No: (01277) 234587
 FAX. No: (01277) 723508

Location: **RAINHAM LANDFILL**

Project: **POLLUTION PREVENTION AND CONTROL PERMIT DRAWINGS**

Title: **INSTALLATION BOUNDARY**

| Drawn By | Issued Date | Scale |
|-------------|-------------|-----------------------|
| JB | 20/02/05 | 1:5000 |
| Checked By | 02/02/04 | |
| Approved By | 02/02/04 | ORIGINAL SHEET NO. 01 |
| Project No. | 01/01/01 | |
| JOB | 2412_2 | RAI/PPC/951 |

© Crown Copyright and Database Rights 2026, OS AC0000807064

END OF PERMIT

Permit number
 EPR/EP3136GK

Permit Number: EPR/EP3136GK Operator: Veolia ES Landfill Limited
Facility: Rainham Landfill Form Number: Air1 / 18/07/2018

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

| Emission Point | Substance / Parameter | Emission Limit Value | Reference Period | Result [1] | Test Method [2] | Sample Date and Times [3] | Uncertainty [4] |
|-----------------------|------------------------------|-----------------------------|-------------------------|-------------------|------------------------|----------------------------------|------------------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the ‘minimum – maximum’ measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/EP3136GK Operator: Veolia ES Landfill Limited
Facility: Rainham Landfill Form Number: Sewer1 / 18/07/2018

Reporting of emissions to sewer for the period from DD/MM/YYYY to DD/MM/YYYY

| Emission Point | Substance / Parameter | Emission Limit Value | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times ^[3] | Uncertainty ^[4] |
|-----------------------|------------------------------|-----------------------------|-------------------------|------------------------------|-----------------------------------|---|-----------------------------------|
| S1 | | | | | | | |
| S1 | | | | | | | |
| S1, S2 | | | | | | | |

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/EP3136GK

Operator: Veolia ES Landfill Limited

Facility: Rainham Landfill

Form Number: Performance1 / 18/07/2018

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

| Parameter | Units |
|-------------------------|--------------|
| Total raw material used | tonnes |
| | |
| | |

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)