Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Biffa Waste Services Limited

Colnbrook Landfill Site
Sutton Lane
Slough
Berkshire
SL3 8AB

Variation application number

EPR/BU7901IP/V007

Permit number

EPR/BU7901IP

Colnbrook Landfill Site
Permit number EPR/BU7901IP

Introductory note

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

This site is going into the aftercare period and therefore is definitely closed. The following gives notice of the variation and consolidation of this environmental permit.

Colnbrook Landfill Site is located on Sutton Lane, within the county of Berkshire at National Grid Reference (NGR) TQ 02407 77893.

Colnbrook Landfill occupies a void created by sand and gravel quarrying activities, with waste disposal operations commenced in 1991.The site has continued to be infilled until 2011 and was fully capped in 2012. Also on the site was a soils treatment area (which was separately permitted (EPR/BB3303GD/V003)) to treat soils and materials (including hazardous materials) to improve the site restoration soils place on the cap. The Soil Treatment Facility is now fully restored and grassed.

The landfill site was developed in a cellular manner, with each cell separated from adjacent cells by intercell bunds, typically completed to a height of 2m. The site comprises a total of 17 containment cells however during the development of the site, cells 13 and 17 were conjoined to form one larger cell, however cells remain to be numbered as cells 1 -18. In addition, there are three additional cells situated to the southeast of the site which were permitted to receive inert waste only. These three cells (referred to as Cells A-C) are now fully restored.

This variation is to place the site into definitive closure as the closure plan is approved and incorporated into the permit, as well as:

- to reclassify of the leachate treatment plant (LTP) from a hazardous waste leachate treatment to a non-hazardous leachate treatment activity due to the removal of treatment of “soil treatment leachate”,
- the amendment of table S1.1 to remove activity AR3 – treatment for the recovery of contaminated soils and now the treatment of restoration soils is finished and site fully restored. (Subsequent activities renumber following the removal of AR3),
- updates permit with the changes for improvement conditions 11 and 12,
- the renaming of the EWC code list in Schedule 2, Table S2.1 and S2.2 to detail what waste had been previously deposited/treated.,
- all the landfill cells are non-operational, the required monitoring frequency of leachate wells as per Table S3.1 has been reduced to quarterly,
- the amendment of monitoring requirements listed under Table S3.6 (Point Source Emissions to sewer),
- the removal of external landfill gas monitoring borehole PG10 from table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements in the environmental permit,
- the removal of Table S3.7 in relation to particulate matter in ambient air and the requirement to monitor dust emissions are various locations. (Subsequent tables renumber following the removal of table S3.7),
- the amendment to table 3.9 (previously table S3.10) with regards to monitoring frequency of the gas collection system, from fortnightly to ‘monthly’.

Schedule 1 to this notice summarises the changes we have made to this permit.

Status log of the permit		
Description	**Date**	**Comments**
Application EPR/BU7901 (reference EPR/BU7901IP/A001)	Received 06/06/2003	
Response to request for information	Emails dated 15/09/2003 and 30/09/2003, following meeting on 16/10/2003 and a letter dated 17/10/2003	Responses received 11/11/2003 and 12/11/2003.
Response to request for information regarding technical information letter	02/12/2003	Response received 23/12/2003 and Revised Gas Risk Assessment V2.1 dated 12/12/2003.
Permit EPR/BU7901 granted	05/02/2004	
Variation KP3334LR (reference EPRBU7901IP/V002)		
Planning Inspector's decision	Response dated 02/02/2006	
Variation KP3334LR (reference EPRBU7901IP/V002) determined	12/10/2006	
Variation application GP3235SJ (reference EPR/BU7901IP/V003)	Received 01/06/2005	
Response to request for further information by email	01/07/2005	Email received 21/07/2005
Response to request for further information	22/07/2005	Letter dated 18/08/2005 and Risk Assessment.
Variation GP3235SJ (reference EPR/BU7901IP/V003) determined	23/11/2006	
Variation application EPRBU7901IP/V004 (billing reference DP3639UZ)	Determined 05/02/2009	
Environment Agency Landfill Sector Review 2013 / 2014 Permit reviewed Variation determined EPR/BU7901IP/V005 Permit EPR/BU7901IP Billing Ref: PP3130RA	14/01/2016	Varied and consolidated permit issued in modern condition format. Activity extended to include limited recirculation of leachate within waste.
Application EPR/BU7901IP/V006 (variation and consolidation)	Duly made 24/05/17	Application to increase leachate compliance levels, make changes to compliance limits for groundwater, revise a control limit for surface water monitoring point N/WR0408, replace carbon dioxide limits in selected external gas boreholes with action levels and update Table S3.1 to reflect current leachate infrastructure.
Additional information received Response to Schedule 5 Notice issued 01/11/2017	12/01/2018	Additional information including: Colnbrook Landfill 2016 Hydrogeological Risk Assessment Schedule 5 Response, December 2017

Status log of the permit		
Description	**Date**	**Comments**
Additional information received Response to Schedule 5 Notice issued 20/03/2018	25/05/2018	Colnbrook Landfill HRAR Schedule 5 Response, May 2018
Additional information received Response to Schedule 5 Notice issued 30/08/2018	28/09/2018	Additional information including: Colnbrook Landfill Site (EPR/BU7901IP/V005) Leachate Management Plan May 2018, updated September 2018
Application EPR/BU7901IP/V006 Additional information received	14/03/2019	Closing Landfill Project (CLP) and ICOP (Perimeter Soil Gas Emission Criteria and Associated Management Industry Guidance) Perimeter Gas Review May 2018, updated January 2019.
Application EPR/BU7901IP/V006 Additional information received	20/05/2019	Environmental Monitoring Schedule Colnbrook Landfill Site, V21 March 2019; Landfill Gas Management Plan (Generic Specification & Standards), Edition VIII February 2019; and Monitoring Plan, drawing CA180805, dated 17/05/2019
Variation determined EPR/BU7901IP/V006 Billing Ref: GP3334YM	13/08/2019	Varied permit issued
Application EPR/BU7901IP/V007 (variation and consolidation)	Duly made 20/03/25	Application to vary to • place the landfill site into definitive closure and cease accepting waste for disposal or restoration except for infilling to maintain landfill cap (AR1), • reclassify the leachate treatment activity as non-hazardous (AR2), • remove the soil remediation activity (AR3), and • provide a consolidated closure and aftercare permit.
Variation determined EPR/BU7901IP/V007	19/11/25	Varied and consolidated permit issued in modern condition format.

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/BU7901IP

Issued to

Biffa Waste Services Limited ("the operator")

whose registered office is

Coronation Road
Cressex
High Wycombe
Buckinghamshire
HP12 3TZ

company registration number **00946107**

to operate a regulated facility at

Colnbrook Landfill Site
Sutton Lane
Slough
Berkshire
SL3 8AB

to the extent set out in the schedules.

The notice shall take effect from 19/11/2025

Name	Date
Charlotte Wakefield	**19/11/2025**

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BU7901IP

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BU7901IP/V007 authorising,

Biffa Waste Services Limited ("the operator"),

whose registered office is

Coronation Road
Cressex
High Wycombe
Buckinghamshire
HP12 3TZ

company registration number **00946107**

to operate an installation at

Colnbrook Landfill Site
Sutton Lane
Slough
Berkshire
SL3 8AB

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

Name	Date
Charlotte Wakefield	**19/11/2025**

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 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Environment Agency dated 5 February 2004 (as may be varied by a Deed of Variation from time to time) 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.

1.3 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.

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").

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in red 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.

2.3.3 For the following activities referenced in schedule 1, table S1.1 A2, any raw materials or fuels listed in schedule 2 table S2.4 shall conform to the specifications set out in that table.

2.4 Improvement programme

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

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

2.5 Landfill Engineering

2.5.1 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.

2.5.2 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.

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

2.5.4 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.1 and 2.5.2 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.

2.5.5 For the purposes of conditions 2.5.1, 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.

2.5.6 Where the Environment Agency has required further information under condition 2.5.5(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:

(a) confirmed whether or not it is satisfied; or

(b) informed the operator that it requires further information.

2.6 Waste acceptance

2.6.1 No waste shall be accepted for disposal within the installation.

2.6.2 Wastes shall only be accepted for restoration where:

(a) they are listed in schedule 2, table S2.3; and

(b) they are accepted in accordance with a restoration plan approved in writing by the Environment Agency.

2.6.3 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 2.6.2.

2.6.4 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.

2.6.5 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.

2.6.6 The quantity of waste that is accepted at the facility for recovery in any year shall not exceed the limits in schedule 1, table S1.4.

2.6.7 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 restoration and of the identity of the producer. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

2.7 Leachate levels

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

2.8 Closure and aftercare

2.8.1 The operator shall maintain a closure and aftercare management plan.

2.9 Landfill gas management

2.9.1 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.

2.9.2 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.

2.9.3 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, S3.3 and S3.6.

3.1.3 For the following activities referenced in schedule 1, table S1.1 AR3 and AR4, the limits given in schedule 3, table S3.2 shall not be exceeded, save that compliance with an emission limit in that table shall include incorporation of the uncertainty allowance stated in Environment Agency guidance LFTGN 05 and LFTGN 08.

3.1.4 For the following activities referenced in schedule 1, table S1.1 AR3 and AR4, the limits given in schedule 3, table S3.2 shall not be exceeded, save that compliance with the emission limits in that table shall include incorporation of the uncertainty allowance stated in guidance;

(a) for engines 1 – 3, LFTGN08,

(b) for engines 4 – 6, monitoring stack emissions: maximum uncertainty for periodic monitoring,

(c) for all flares, LFTGN05.

3.1.5 Where a substance is specified in schedule 3, table S3.6 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.

3.1.6 The operator shall prevent the input of any hazardous substances from the activities into groundwater.

3.1.7 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.

3.1.8 For the following activities referenced in schedule 1, table S1.1 AR2, 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.

3.4 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.

3.5 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 S3.10;

(b) Point source emissions specified in tables S3.2, S3.3 and S3.6;

(c) Groundwater specified in tables S3.4 and S3.8;

(d) Landfill gas specified in tables S3.5, S3.7 and S3.9; and

(e) Surface water specified in table S3.11.

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 and after the recovery of waste for restoration.

3.6 Pests

3.6.1 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.

3.6.2 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.

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) waste types and quantities; and

(vi) the specification and as built drawings of the basal, sidewall and capping engineering systems.

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 The operator shall send a report or reports on the performance of the landfill activities to the Environment Agency every 3 years. The report shall be submitted on every third anniversary of the

granting of the permit or such other date as may be agreed in writing by the Environment Agency. 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 site and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during 3 year period, action plans developed and planned improvements for the coming 3 years;

(b) a plan(s) ('the monitoring and extraction point plan – MEPP') showing the locations of existing 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;

(c) giving the information from such results and assessments as may be required by the forms specified in those tables;

(d) the energy consumed at the site, reported in the format set out in schedule 4, table S4.3;

(e) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;

(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.

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.

4.3 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 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 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.

4.3.4 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.

4.4 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**
AR1	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 2.6, as an integral part of landfilling.
AR2	D8 – Biological treatment of waste	Section 5.4 Part A(1) (a) (i), Treatment of non-hazardous waste with a capacity exceeding 50 tonnes per day involving biological treatment;	Treatment of landfill leachate	From landfill leachate management system and soil treatment facility to point of entry to sewer.
Directly Associated Activities				
AR3	R1 – use principally as a fuel to generate energy	--	Pre-treatment and utilisation of landfill gas for energy recovery in an appliance with a rated thermal input ≥3 MW but < 50MW	Treatment and utilisation of landfill gas arising from the landfill.
AR4	N/A	--	Flaring of landfill gas for disposal in an appliance.	Landfill gas arising from the landfill.

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**
AR5	D6 – release to water body except seas/ oceans	--	Discharges of site drainage from the landfill.	From surface water management system to point of entry to controlled waters.
AR6	N/A	--	Temporary storage of waste (leachate), tankering off site and recirculation of leachate	Leachate arising from the landfill Recirculation of leachate is only to be undertaken when the site is compliant with the limits stated in Table S3.1 of this Permit.
AR7	N/A	--	Storage of fuel for operation of plant and equipment	Fuel storage tank

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	The response to questions 1.2, 2.1, 2.2, 2.3, 2.4 and 2.5 in Part B of the Application Form	06/06/2003
Variation Application Documentation	The response to questions C2.1, C2.2, C2.3, C2.4, C2.5 and C2.11 in the supporting documentation of the Application	01/06/2005
Response to letter dated 22/07/2006 and Risk Assessment (No. 4B-0034-00147-01) dated August 2005	All sections of letter dated 18/08/2006 and all sections of Risk Assessment dated August 2005	18/08/2006
Colnbrook Landfill Site Noise and Vibration Management Plan 2007	All	May 2007
Colnbrook Landfill Site Odour Management Plan (reviewed 13/03/2009)	All	13/03/2009
Colnbrook Landfill Site Bird Management Plan (version 3)	All	17/03/2010

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
BMP after consultation with Environment Agency 17/03/2010		
Letter from Andy White on 28/05/2013 – removal of two perimeter gas monitoring wells	All	28/05/2013
Application EPR/BU7901IP/V006	Surface Water Management Plan – Drawing (CA180901 revision 1)	22/05/2017
Additional information received EPR/BU7901IP/V006	Closing Landfill Project (CLP) and ICOP (Perimeter Soil Gas Emission Criteria and Associated Management Industry Guidance) Perimeter Gas Review May 2018, updated January 2019.	14/03/2019
Additional information received EPR/BU7901IP/V006	Landfill Gas Management Plan (Generic Specification & Standards), Edition VIII February 2019	20/05/2019
Application EPR/BU7901IP/V007	Closure plan excluding: • Appendix 5 - leachate management plan, and • Appendix 6 - Monitoring Schedule	23/12/2023
	Closure plan – Appendix 7 – Surface Water Management Plan	23/12/2023
	Revised leachate management plan – update 14 dated March 2025	11/03/2025
	Revised Monitoring Schedule V30 dated March 2025	11/03/2025

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
5a	The Operator shall carry out an investigation into the methane levels in perimeter gas monitoring boreholes PG34a (91301334), PG36r (91301336), PG37r (91301337), PG38r (91301338) and G39r (91301339) and Carbon Dioxide in boreholes PG02 (91301102) and PG35r (91301335). The objective shall be to determine the underlying cause of these elevated levels by identifying and establishing the true source(s) of such gases and their potential migration pathways, this shall include but not be limited to: • A review of the historical site information to identify if the perimeter gas monitoring boreholes are being influenced by other gas sources other than landfill gas,	Complete

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	• A review of the conceptual model to identify any features that could affect gas migration including an assessment of barriers, pathways and construction of the monitoring boreholes; and • A review of historical monitoring data that establish/determine predictive trends for gas concentrations within these monitoring boreholes, source identification shall be justified by appropriate trace gas analysis techniques.	
5b	On completion the Operator shall submit a report to the Agency detailing the outcome of the investigation including recommendations with a realistic timetable for implementation and further review. The Operator shall derive appropriate compliance, assessment levels and monitoring frequency for the above monitoring boreholes for agreement. These levels shall be based upon the outcome of the investigation and cross-referenced to measurements recorded since these monitoring boreholes were installed. The potential for a combination of background and landfill derived gases to migrate and result in an adverse environmental impact upon identified receptors adjacent to the installation boundary shall also be assessed and reviewed.	Complete
8	The Operator shall submit to the Environment Agency in writing for approval a restoration plan for the site which includes waste quantities, waste types and waste acceptance criteria for wastes for restoration.	Complete
9	The Operator shall submit a drawing showing the pre-settlement levels at the site.	Complete
10	Review your risk assessments to identify the risk elevated leachate levels pose to: • Groundwater; • Landfill infrastructure (including; liners, slope stability, monitoring and extraction); and • Overtopping the site perimeter. Develop or revise your action plan or leachate management plan (LMP) to describe what action you will take to minimise the impact of elevated leachate levels. Your LMP must propose target leachate levels and a date by which you will achieve those target levels (‘milestones’).	Complete
11	The Operator shall undertake leachate dip level monitoring in the following in-waste gas wells for a period of 12 consecutive months commencing from the issue date of EPR/BU7901IP/V006: - Cell 2: CB090301 - Cell 7: CB050106	Complete

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	- Cell 8: CB040102 - Cells 9 & 10: CB030301 - Cell 13-17: CB010101	
12	A written report considering the results of the monitoring undertaken in response to IC11 shall be submitted to the Environment Agency for approval and shall include the following: - An assessment of the suitability of the gas wells, listed in IC11, to monitor action and compliance levels at the required limits (as defined in Table S3.1 of the permit and the site's Leachate Management Plan); - Proposals for the installation and/or commissioning of replacement wells for any monitoring well which the above assessment concludes is not fit-for-purpose; - A proposal for the replacement of leachate level monitoring well C10-5r (91303105) in Cell 10; and - Confirmation that the replacement well(s) will be installed within 1 month of the proposals being approved by the Environment Agency, or, if necessary, a proposed alternative timetable for completion of works. The report must also demonstrate that the replacement well(s) will be fit for purpose. The well(s) must be capable of detecting leachate level rises above action and compliance limits in the relevant cell(s). Well(s) must be designed in accordance with the leachate monitoring principles set out in guidance document LFTGN 02 'Monitoring of landfill leachate, groundwater and surface water'. The Operator shall install the required replacement leachate monitoring well(s) to a timetable agreed in writing with the Environment Agency. Immediately following installation, details of the replacement well(s) shall be incorporated into the site's Environmental Monitoring Schedule and Leachate Management Plan. Copies of these updated documents shall be submitted to the Environment Agency for approval.	Complete

Table S1.4 Annual waste input limits	
Category	**Limit Tonnes/ Year**
Waste for restoration	As per the approved restoration plan.

Schedule 2 – List of wastes

Table S2.1 Waste types previously permitted for disposal at a landfill for non-hazardous waste	
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 06	tailings other than those mentioned in 01 03 04 and 01 03 05
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 01	sludges from washing and cleaning
02 01 02	animal-tissue waste
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 09	agrochemical waste other than those mentioned in 02 01 08
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 02	animal-tissue waste

Table S2.1 Waste types previously permitted for disposal at a landfill for non-hazardous waste	
Waste code	**Description**
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
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 02	wastes from preserving agents
02 03 03	wastes from solvent extraction
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 04	**wastes from sugar processing**
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 04 03	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 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
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 02	green liquor sludge (from recovery of cooking liquor)
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

Table S2.1 Waste types previously permitted for disposal at a landfill for non-hazardous waste	
Waste code	**Description**
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 06	sludges, in particular from on-site effluent treatment containing chromium
04 01 07	sludges, in particular from on-site effluent treatment free of chromium
04 01 08	waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09	wastes from dressing and finishing
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 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 06	**wastes from the pyrolytic treatment of coal**
05 06 04	waste from cooling columns
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 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
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 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

Table S2.1 Waste types previously permitted for disposal at a landfill for non-hazardous waste	
Waste code	**Description**
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
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 01 03	fly ash from peat and untreated wood
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16
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 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 24	sands from fluidised beds
10 01 25	wastes from fuel storage and preparation of coal-fired power plants
10 01 26	wastes from cooling-water treatment
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 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	**wastes from aluminium thermal metallurgy**
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
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
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

Table S2.1 Waste types previously permitted for disposal at a landfill for non-hazardous waste	
Waste code	**Description**
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 05	**wastes from zinc thermal metallurgy**
10 05 01	slags from primary and secondary production
10 05 04	other particulates and dust
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
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 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
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 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
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 14	anode scrap
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 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
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
10 09 14	waste binders other than those mentioned in 10 09 13

Table S2.1 Waste types previously permitted for disposal at a landfill for non-hazardous waste	
Waste code	**Description**
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
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 10 14	waste binders other than those mentioned in 10 10 13
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
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 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10

Table S2.1 Waste types previously permitted for disposal at a landfill for non-hazardous waste	
Waste code	**Description**
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**
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 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 02	ferrous metal dust and particles
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 02	plastic 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**
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 12	brake pads other than those mentioned in 16 01 11
16 01 19	plastic
16 01 20	glass
16 03	**off-specification batches and unused products**
16 03 04	inorganic wastes other than those mentioned in 16 03 03

Table S2.1 Waste types previously permitted for disposal at a landfill for non-hazardous waste	
Waste code	**Description**
16 03 06	organic wastes other than those mentioned in 16 03 05
16 08	**spent catalysts**
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
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 03	plastic
17 04	**metals (including their alloys)**
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
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 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 14	fly ash other than those mentioned in 19 01 13
19 01 16	boiler dust other than those mentioned in 19 01 15
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	sands from fluidised beds
19 03	**stabilised/solidified wastes**

Table S2.1 Waste types previously permitted for disposal at a landfill for non-hazardous waste	
Waste code	**Description**
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**
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 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 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 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 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 04	plastic and rubber
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

Table S2.1 Waste types previously permitted for disposal at a landfill for non-hazardous waste	
Waste code	**Description**
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
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 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 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
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 Waste types previously permitted for biopile soil treatment Limited to 0 tonnes of hazardous waste per year at the soil treatment facility.	
Waste code	**Description**
01	**Wastes resulting from exploration, mining, quarrying and physical and chemical treatment of minerals**
01 05	**drilling muds and other drilling wastes**
01 05 05 *	oil-containing drilling muds and wastes
01 05 06 *	drilling muds and other drilling wastes containing hazardous substances
05	**Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal**
05 01	**Wastes from petroleum refining**
05 01 03 *	tank bottom sludges
05 01 05 *	oil spills

Table S2.2 Waste types previously permitted for biopile soil treatment Limited to 0 tonnes of hazardous waste per year at the soil treatment facility.	
Waste code	**Description**
05 01 06 *	oily sludges from keep operations of the plant or equipment
05 01 09 *	sludges from on-site effluent treatment containing hazardous substances
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 04	soil and stones other than those mentioned in 17 05 03
17 05 05 *	dredging spoil containing hazardous substances
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 07 *	track ballast containing hazardous substances
17 05 08	track ballast other than those mentioned in 17 05 07
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 03	**stabilised / solidified wastes**
19 03 04 *	wastes marked as hazardous, partly stabilised other than 19 03 08
19 13	**wastes from soil and groundwater remediation**
19 13 01 *	solid wastes from soil remediation containing hazardous substances
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 03 *	sludges from soil remediation containing hazardous substances
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03

Table S2.3 Waste types permitted for restoration	
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
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
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 04	**wastes from sugar processing**
02 04 01	soil from cleaning and washing beet

Table S2.3 Waste types permitted for restoration	
Waste code	**Description**
03	**Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard**
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 05	de-inking sludges from paper recycling
03 03 09	lime mud waste
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	**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
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 05	sludges from treatment of urban waste water
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 09	minerals (for example sand, stones)
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
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 S2.4 Raw materials and fuels	
Raw materials and fuel description	**Specification**
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Schedule 3 – Emissions and monitoring

Table S3.1 Leachate level limits and monitoring requirements			
Monitoring point reference/Description (as Plan shown on Monitoring, drawing CA180811, dated 28/04/2015, revision 11 dated 03/02/2025).	**Limit**	**Monitoring frequency**	**Monitoring method**
Non Operational Cells or Phases (Any cells or phases that do not have a final engineered cap agreed in accordance with the landfill engineering condition, **2.5**)			
Cell 1: LC1-G REDRILL (91303013), LC1-H REDRILL (91303014)	4 metres above the base of the cell	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.
Cell 2: LC2 (91303020), LC2-0 REDRILL (91303023)			
Cell 3: LC3-0 REDRILL (91303033), LC3-C REDRILL (91303034)	19mAOD		
Cell 4: LC4-G (91303043), LC4-Sump REDRILL (91303044)			
Cell 5: LC5 (91303050), LC5r (91303053)			
Cell 6: LC6-L (91303062), LC6-0 REDRILL (91303064)			
Cell 7: LC7-M REDRILL (91303074), LC7r3 redrill (91303078)			
Cell 8: LC8 r1 (91303084), LC 8 r2 (91303088)			
Cell 9: LC9-I REDRILL (91303094), LC9-6r (91303098)			
Cell 14: LC14-S REDRILL (91303143), LC14-M REDRILL (91303144)			

Table S3.1 Leachate level limits and monitoring requirements			
Monitoring point reference/Description (as Plan shown on Monitoring, drawing CA180811, dated 28/04/2015, revision 11 dated 03/02/2025).	**Limit**	**Monitoring frequency**	**Monitoring method**
Cell 15: LC15-S REDRILL (91303151), LC15-M REDRILL (91303152)			
Cell 10: LC10-T (91303104); LC 107r (9103107)	17mAOD		
Cell 11: LC11r (91303113), LC11-r1 (91303114)			
Cell 12: LC12-S REDRILL (91303123), LC12-M REDRILL (91303124)			
Cell 13: LC13 REDRILL (91303133), LC13r 1 (91303134)			
Cell 16: LC16-W (91303161), LC16-X (91303163)			
Cell 18: LC18 REDRILL (91303183), LC18-Z REDRILL (91303184)			
Cell 2: Gas-LC2 Action (91303029)	No Limit		
Cell 7: Gas-LC7 Action (91303079)			
Cell 8: Gas-LC8 Action (91303089)			
Cell 9 / 10: Gas-LC10 Action (91303109)			
Cell 13 / 17 Gas-LC13 Action (91303138)			

Table S3.2 Point source emissions to air – emission limits and monitoring requirements						
Emission point Ref. & Location	**Parameter**	**Source**	**Limit (including unit)**	**Reference Period**	**Monitoring Frequency**	**Monitoring Standard or Method**
A1 – Flare Stack (permanent)	Oxides of Nitrogen	Landfill Gas Flares	150 mg/m^3	Hourly mean	Annually	Monitoring method shall be as per monitoring-stack-emissions-techniques-and-standards-for-periodic-monitoring or such other subsequent guidance as may be agreed in writing with the Environment Agency Monitoring is unnecessary where the flare is active for <10% of the year. Limits shall be based on normal operating conditions. Temperature: 0^{o}C (273K); pressure: 101.3 kPa and oxygen: 3 percent (dry gas). Uncertainty in limits shall be calculated in accordance with LFTGN05.
	CO		50 mg/m^3			
	Total VOCs		10 mg/m^3			
A2 Engines number 1 and 2 as shown on Engine and flare compound plan 12/03	Oxides of Nitrogen	Gas Utilisation Plant	650 mg/m^3	Hourly mean	Annually	Monitoring method shall be as per monitoring-stack-emissions-techniques-and-standards-for-periodic-monitoring or such other subsequent guidance as may be agreed in writing with the Environment Agency. Limits shall be based on normal operating conditions and load. Temperature 0^{o}C (273 K); pressure: 101.3 kPa; and oxygen: 5 percent (dry gas). Uncertainty in limits shall be calculated in accordance with section on data standardisation in LFTGN08.
	CO		1500 mg/m^3			
	Total VOCs		1750 mg/m^3			

Table S3.3 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**
N/WR/0408 (SW05) (as shown	Suspended Solids		60 mg/l	Spot Sample	Monthly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate,

Table S3.3 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**
on Monitoring Plan, drawing CA180805, dated 17/05/2019). Receiving water – unnamed tributary of Horton Brook	Ammoniacal Nitrogen	Intercepted Surface Water	2 mg/l			Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency
	Chloride		150 mg/l			
	Iron		5 mg/l			
	pH		Min 5 pH units; and Max 9 pH units			

Table S3.4 Groundwater – emission limits and monitoring requirements					
Monitoring point reference (as shown on Monitoring Plan, drawing CA180805, dated 17/05/2019).	**Parameter**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
W02 (91302002)	Ammoniacal Nitrogen	4.30 mg/l	Spot Sample	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency
W02a (91302102)		0.39 mg/l			
W03 (91302003)		0.86 mg/l			
W03b (91302103)		2.39 mg/l			
W04 (91302004)		0.66 mg/l			
W04a (91302104)		3.22 mg/l			
W05 (91302005)		0.84 mg/l			
W05a (91302105),		0.94 mg/l			
W05b (91302205)		0.75 mg/l			

Table S3.4 Groundwater – emission limits and monitoring requirements					
Monitoring point reference (as shown on Monitoring Plan, drawing CA180805, dated 17/05/2019).	**Parameter**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
W06 (91302006)		0.61 mg/l			
W02 (91302002), W02a (91302102), W03 (91302003), W03b (91302103), W04 (91302004), W04a (91302104), W05 (91302005), W05a (91302105), W05b (91302205) and W06 (91302006)	Chloride	250 mg/l			
	Cadmium	2.75 ug/l			
	Xylene	3 ug/l			
	Toluene	9.92 ug/l			
	Chromium	0.05 mg/l			
	Mecoprop	0.00028 mg/l			

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements				
Monitoring point Ref. /description (as shown on Monitoring Plan, drawing CA180805, dated 17/05/2019).	**Parameter**	**Limit (including units)**	**Monitoring frequency**	**Monitoring standard or method**
PG07 (91301107), PG07a (91301307), PG07b (91301407), PG07c (91301507), PG09 (91301109), PG10a (91301310), PG20 (91301120), PG21 (91301121), PG22 (91301122), PG23 (91301123), PG26 (91301126), PG27 (91301127), PG28r (91301328), PG29 (91301129), PG30 (91301130)	Methane	1.3 %v/v	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
PG03 (91301103), PG04 (91301104), PG05 (91301105), PG06 (91301106), PG29a (91301329),	Methane	1.4 %v/v		
PG02 (91301102)	Methane	2 %v/v		
PG01 (91301101), PG11 (91301111), PG12 (91301112), PG13 (91301113), PG14 (91301114), PG15a (91301315), PG15b (91301415), PG16	Methane	None set		

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements				
Monitoring point Ref. /description (as shown on Monitoring Plan, drawing CA180805, dated 17/05/2019).	**Parameter**	**Limit (including units)**	**Monitoring frequency**	**Monitoring standard or method**
(91301116), PG16a (91301316),PG17 (91301117), PG18 (91301118), PG19 (91301119), PG24r (91301324), PG31 (91301131), PG32r (91301332), PG33 (91301133), PG34 (91301134), PG34a (91301334), PG35r (91301335), PG36r (91301336), PG37r (91301337), PG38r (91301338), PG39r (91301339), PG40r (91301340)				
PG01 (91301101), PG02 (91301102), PG03 (91301103), PG04 (91301104), PG05 (91301105), PG06 (91301106), PG07 (91301107), PG07a (91301307), PG07b (91301407), PG07c (91301507), PG09 (91301109), PG10a (91301310), PG11 (91301111), PG12 (91301112), PG13 (91301113), PG14 (91301114), PG15a (91301315), PG15b (91301415), PG16 (91301116), PG16a (91301316), PG17 (91301117), PG18 (91301118), PG19 (91301119), PG20 (91301120), PG21 (91301121), PG22 (91301122), PG23 (91301123), PG24r (91301324), PG26 (91301126), PG27 (91301127), PG28r (91301328), PG29 (91301129), PG29a (91301329), PG30 (91301130), PG31 (91301131), PG32r (91301332), PG33 (91301133), PG34 (91301134), PG34a (91301334), PG35r (91301335), PG36r (91301336), PG37r (91301337), PG38r (91301338), PG39r (91301339), PG40r (91301340)	Carbon Dioxide	None set		
	Oxygen	None set		
	Atmospheric pressure	None set		
	Differential pressure	None set		

Table S3.6 Point source emissions to sewer, effluent treatment plant or by tankering or other transfer off-site – emission limits and monitoring requirements						
Emission point Ref. & Location	**Parameter**	**Source**	**Limit (including unit)**	**Reference Period**	**Monitoring Frequency**	**Monitoring Standard or Method**
S1 (91306001). At existing point of entry to sewer on Sutton Lane.	Volume Flow	Leachate effluent treatment plant	None set	Spot sample	Continuous	As agreed in writing with the Environment Agency

Table S3.7 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.

Table S3.8 Groundwater – other monitoring requirements			
Monitoring Point Ref./Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**
Up gradient MEPP	Water level, Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency
	Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	
	Hazardous substances	Annually for first six years of operation	
Down or cross gradient MEPP	Water level, Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency 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.
	Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	
	Hazardous substances	Annually for first six years of operation then every two years	
MEPP	Base of monitoring point (mAOD)	Annually	

Table S3.9 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, 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
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 [or a trace gas characterisation method agreed 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.

Table S3.9 Landfill gas – other monitoring requirements				
Monitoring Point Ref. /Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
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.
A1 - Flare 1 Engine and flare compound plan 12/03	Temperature	As per LFTGN05 v2 2010 or such other subsequent guidance as may be agreed in writing with the Environment Agency.	Monitoring method shall be as per monitoring-stack-emissions-techniques-and-standards-for-periodic-monitoring or such other subsequent guidance as may be agreed in writing with the Environment Agency.	
A2 - Gas engines number 1 and 2, post turbo as shown on Engine and flare compound plan 12/03	NOx and CO	Quarterly	In accordance with Appendix C of LFTGN08, (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.	Where monitoring using hand-held, electrochemical equipment indicates an exceedance of the emissions standards specified in table S3.2, these shall be used as action levels and the operator shall investigate the cause and take appropriate measures to reduce emissions.

Table S3.10 Leachate – other monitoring requirements				
Monitoring point reference or description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Non Operational Cells or Phases (Any cell or phases that have a final engineered cap agreed in accordance with condition **2.5**)				
MEPP	Ammoniacal Nitrogen, Arsenic, BOD, Cadmium, Calcium, Chloride, Chromium, COD, Copper, Electrical Conductivity, Iron, Lead, Magnesium, Manganese, Nickel, pH, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	At leachate extraction points as listed in table S3.1 unless otherwise agreed in writing through an MEPP. As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency	None
MEPP	Hazardous substances	Once every four years		
MEPP	Depth to base (mAOD)	Annually		

Table S3.11 Surface water – other monitoring requirements				
Monitoring Point Ref. /Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
MEPP	Ammoniacal Nitrogen Chloride Electrical conductivity pH Suspended solids Visual Oil and Grease	Monthly	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency

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 and/ or groundwater level As specified by schedule 3, table S3.1	Every 3 months	31 March, 30 June, 30 September, 31 December
Point source emission to air As specified by schedule 3, table S3.2	Every 12 months	31 December
Point source emission to water (other than sewer) As specified by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December
Emission to groundwater As specified by schedule 3, table S3.4	Every 3 months	31 March, 30 June, 30 September, 31 December
Landfill gas in external monitoring boreholes As specified by schedule 3, table S3.5	Every 3 months	31 March, 30 June, 30 September, 31 December
Point source emission to sewer, effluent treatment plant, tankering or other off site transfer As specified by schedule 3, table S3.6	Every 3 months	31 March, 30 June, 30 September, 31 December
Emission of landfill gas from capped surfaces As specified by schedule 3, table S3.7	Every 12 months	31 December
Other groundwater monitoring As specified by schedule 3, table S3.8	Every 3 months	31 March, 30 June, 30 September, 31 December
Other Landfill gas monitoring As specified by schedule 3, table S3.9 Trace gas monitoring	Every 3 months Every 12 months	31 March, 30 June, 30 September, 31 December 31 December
Other leachate monitoring As specified by schedule 3, table S3.10	Every 12 months	31 December
Other surface water monitoring As specified by schedule 3, table S3.11	Every 12 months	31 December
Meteorological data Landfill Directive, annex III, section 2	Every 12 months	31 December

* - 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	
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

Table S4.3 Performance Parameters			
Parameter	**Frequency of assessment**	**Annual total**	**Unit**
Energy used (including for leachate treatment)	Annually		MWh of electricity or natural gas

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	05/08/2015
Air	Form Air 1 or other reporting format to be agreed in writing with the Environment Agency	05/08/2015
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	05/08/2015
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	05/08/2015
Sewer	Form Sewer 1 or other reporting format to be agreed in writing with the Environment Agency	05/08/2015
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	05/08/2015
Waste Return	Waste Return Form RATS2E	05/08/2015
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	05/08/2015

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 incident or accident which significantly affects or may significantly affect the environment	
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 breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements in the event 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	
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.

“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.

“cell layout drawing” means:

(a) 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.

“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.

“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.

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

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

“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.

"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.

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

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

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

“LFTGN 05” means Environment Agency Guidance for monitoring enclosed landfill gas flares.

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

“LFTGN 08” means Environment Agency Guidance for monitoring landfill gas engines.

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

“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.

“M2” means Environment Agency Guidance Monitoring of stack emissions to air.

“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.

“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.

‘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’ - See ‘List of Wastes’.

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

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 or S2.3 they have the meaning given below:

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

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

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

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

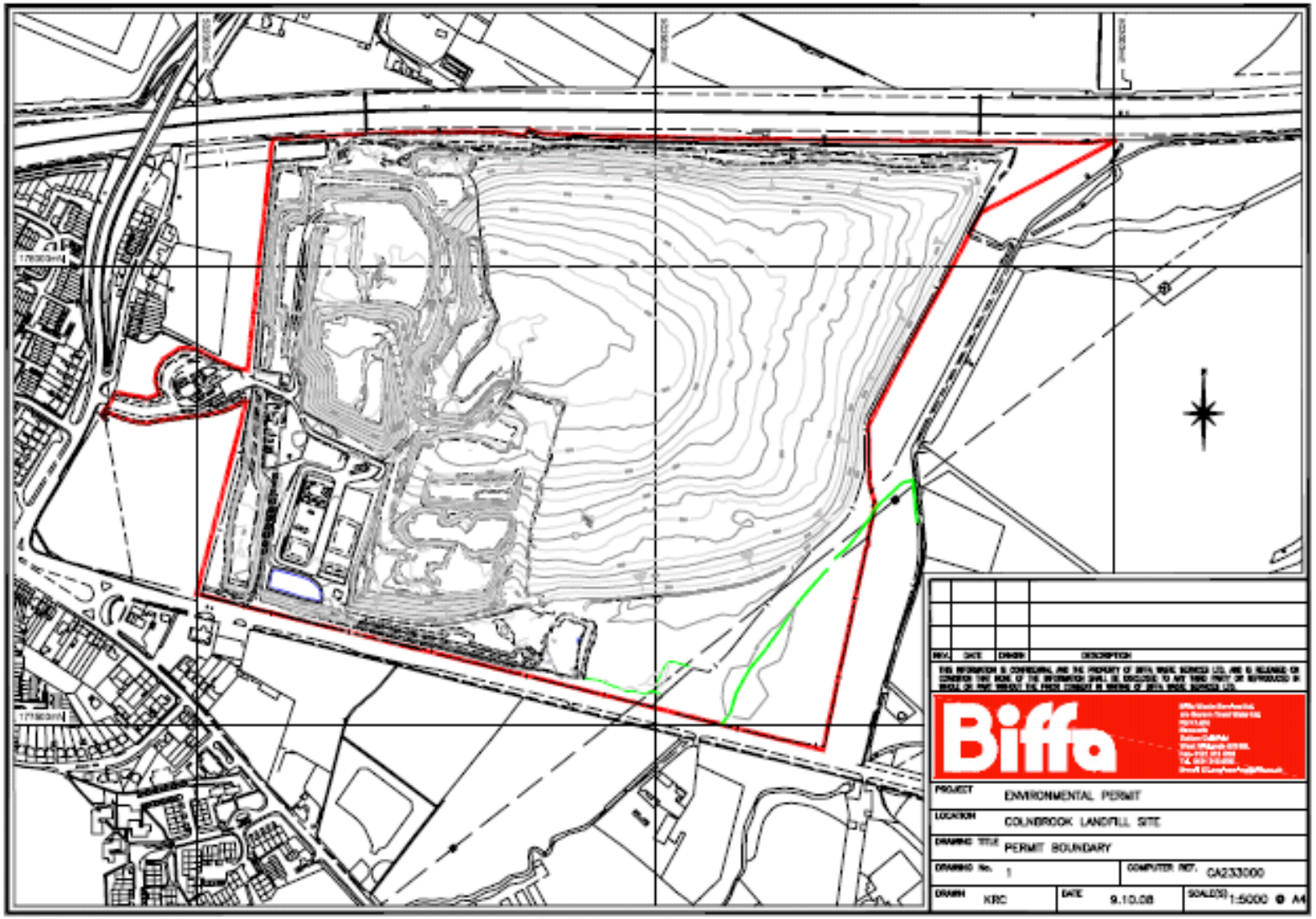
‘transition metals’ means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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

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

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

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

Schedule 7 – Site plan



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