Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Welbeck Waste Management Limited

Welbeck Landfill Site
Boundary Lane
Normanton
Wakefield
West Yorkshire
WF6 2JA

Variation application number

EPR/WP3330BZ/V012

Permit number

EPR/WP3330BZ

Welbeck Landfill Site
Permit number EPR/WP3330BZ

Introductory note

This introductory note does not form a part of the notice

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

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

This variation permits the operation of a soil treatment facility capable of treating up to a maximum of 29,999 tonnes per annum of hazardous soils. The treated soils will be used in restoration of the wider landfill site.

An Environment Agency initiated variation has also been included to update the leachate monitoring in Table S3.1. Points LCP04 and LMP05B2 are no longer in use and have been replaced by points LCP04/19 and LMP05B2/19. Also conditions relating to notifications have been updated.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	**Date**	**Comments**
Application WP3330BZ (EPR/WP3330BZ/A001)	Duly made 14/10/2004	
Permit WP3330BZ determined	09/11/2005	Permit issued to Welbeck Waste Management Limited
Environment Agency initiated variation PP3836LN determined (EPR/WP3330BZ/V002)	30/07/2007	Varied and consolidated permit issued in modern condition format
Variation application UP3631XW (EPR/UP3631XW/V003)	Duly made 10/10/2007	Application to update the financial provision condition in the permit to reflect the current arrangement between the Operator and the Environment agency.
Variation UP3631XW determined (EPR/WP3330BZ/V003)	30/05/2008	
Variation application MP3731UK (EPR/WP3330BZ/V004)	Duly made 14/09/2007	Application to add activity S1.1 Part A(1)(b)(iii) – burning waste as fuel – to allow landfill gas utilisation on site.
Variation MP3731UK determined (EPR/WP3330BZ/V004)	12/09/2008	
Variation application MP3231UJ (EPR/WP3330BZ/V005)	Duly made 12/09/2007	Application to amend pre-settlement contours.
Variation MP3231UJ determined (EPR/WP3330BZ/V005)	09/07/2009	
Variation application EPR/WP3330BZ/V006	Duly made 21/10/2011	Application to add gas clean up equipment to the gas engines.

Status log of the permit		
Description	**Date**	**Comments**
Variation EPR/WP3330BZ/V006 determined	17/01/2012	
Environment Agency initiated variation EPR/WP3330BZ/V007 determined	30/05/2013	Environment Agency variation to implement the changes introduced by IED
Administrative variation EPR/WP3330BZ/V008 determined	08/10/2013	Varied to add new waste codes to the list of permitted wastes for restoration; and an amendment to the conditions covering financial provision.
Variation application EPR/WP3330BZ/V009	Duly made 29/08/2014	Application to add two additional waste codes to the list of permitted wastes for restoration.
Variation EPR/WP3330BZ/V009 determined	15/05/2015	
Environment Agency Landfill Sector Review Permit reviewed Variation determined EPR/WP3330BZ/V010 Permit EPR/WP3330BZ Billing Ref: NP3131YB	17/10/2017	Varied and consolidated permit issued in modern condition format
Application EPR/WP3330BZ/V011 (variation and consolidation) Billing Ref: KP3336JY	Duly made 30/10/2018	Application to revise final landform based on a reduced void and remaining areas restored under a waste recovery operation. Increase to leachate compliance levels, revision to capping system and removal of two gas engines.
Variation determined EPR/WP3330BZ	08/11/2019	Varied permit issued to Welbeck Waste Management Limited
Application EPR/WP3330BZ/V012 (variation and consolidation)	Duly made 07/10/2020	Application to vary the permit to permit operation of a soil treatment facility and update the permit to modern conditions.
Variation determined and consolidation issued EPR/WP3330BZ	08/06/2021	Varied and consolidated permit issued in modern format

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/WP3330BZ

Issued to

Welbeck Waste Management Limited ("the operator")

whose registered office is

Ground Floor West
900 Pavilion Drive
Northampton Business Park
Northampton
NN4 7RG

company registration number **02736095**

to operate a regulated facilities at

Welbeck Landfill Site
Boundary Lane
Normanton
Wakefield
West Yorkshire
WF6 2JA

to the extent set out in the schedules.

The notice shall take effect from 08/06/2021

Name	Date
Anne Lloyd	**08/06/2021**

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were amended as a result of an Environment Agency initiated variation:

- Table S3.1, 4.3.2 & Schedule 5 Notification.

The following conditions and tables were added as a result of the application made by the operator:

- Conditions 2.6.3, 2.6.11, 2.6.12, 2.6.13, 3.1.6, 3.7.1, 3.7.2, 4.3.3 & 4.3.6.
- Tables S2.5 and S3.14.

The following conditions were amended as a result of the application made by the operator:

- Conditions 1.3.1, 1.4.1, 2.6.4, 3.5.1, 4.1.1, 4.2.2 & Schedule 6 Interpretation.
- Tables S1.1, S1.2, S1.3, S3.2, S3.3, S3.4, S3.5, S3.6, S3.7, S4.1, S4.2, S4.3 and S4.4

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/WP3330BZ

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/WP3330BZ/V012 authorising,

Welbeck Waste Management Limited ("the operator"),

whose registered office is

Ground Floor West
900 Pavilion Drive
Northampton Business Park
Northampton
NN4 7RG

company registration number **02736095**

to operate an installation and waste operation at

Welbeck Landfill Site
Boundary Lane
Normanton
Wakefield
West Yorkshire
WF6 2JA

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

Name	Date
Anne Lloyd	**08/06/2021**

Authorised on behalf of the Environment Agency

Conditions

1.1 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

1.1.2 The financial provision for meeting the obligations under this permit shall be as set out in the Deed of Performance dated 17 October 2007 between the Waste Recycling Group Limited (now known as FCC Environment (UK) Limited) and the Environment Agency as varied by a Deed of Variation dated 15 October 2010 (as varied by further Deeds of Variation from time to time). The operator shall accordingly ensure that the Permit is and remains throughout its subsistence a Permit to which the Deed relates and the operator shall produce evidence of such provision whenever required by the Environment Agency.

1.2.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:

(a) the costs of setting up and operating the landfill;

(b) the costs of the financial provision required by condition 1.2.1; and

(c) the estimated costs for the closure and aftercare of the landfill.

1.3 Energy efficiency

1.3.1 For the following activity referenced in schedule 1, table S1.1, A1, A2 & A3, 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 For the following activity referenced in schedule 1, table S1.1, A1, A2 & A3, 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 green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan , and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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 any new cell of the landfill shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.

2.5.2 Where the operator proposes to construct any new cell other than the first cell, but proposes no change from the design of the most recently approved cell which could have any impact on the performance of any element of the design, no construction of the new cell shall commence until the operator has submitted a cell layout drawing and the Environment Agency has confirmed that it is satisfied with the cell layout drawing.

2.5.3 The construction of a new cell shall take place only in accordance with the approved construction proposals unless:

(a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or

(b) a change has otherwise been agreed in writing by the Environment Agency.

2.5.4 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.

2.5.5 No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.

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

(a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or

(b) a change has otherwise been agreed in writing by the Environment Agency.

2.5.7 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.

2.5.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.5 and 2.5.6 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.

2.5.9 For the purposes of conditions 2.5.1, 2.5.2, 2.5.4 and 2.5.5, the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:

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

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

2.5.10 Where the Environment Agency has required further information under condition 2.5.9(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:

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

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

2.6 Waste acceptance

2.6.1 For the following activity referenced in schedule 1, table S1.1, A1, wastes shall only be accepted for disposal if:

(a) they are listed in schedule 2, table S2.1; and

(b) they are non- hazardous waste; and

(c) they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm); and

(d) they are not shredded used tyres; and

(e) they are not liquid waste (including waste waters but excluding sludge; and

(f) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown; and

(g) all the relevant waste acceptance procedures have been completed; and

(h) they fulfil the relevant waste acceptance criteria; and

(i) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria; and

(j) they are wastes which have been treated, except for: inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment; and

(k) they are wastes with a code beginning with 07 05 and 16 03, they shall exclude waste medicinal products and pharmaceutically active waste materials arising from their manufacture.

2.6.2 For the following activity referenced in schedule 1, table S1.1, A1, wastes shall only be accepted for restoration where:

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

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

2.6.3 For the following activities referenced in schedule 1, Table S1.1 (A2 & A3) waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 2, Tables S2.5 and S2.6; and

(b) it conforms to the description in the documentation supplied by the producer and holder.

2.6.4 For the following activity referenced in schedule 1, table S1.1, A14, wastes shall only be accepted for recovery if:

(a) they are listed in schedule 2, table S2.3 and S2.4; and

(b) it has been identified as a suitable waste in the approved waste recovery plan;

(c) its chemical, physical and biological characteristics make it suitable for its intended use on the site; and

(d) it fulfils the approved waste acceptance criteria; and

(e) all the approved waste acceptance procedures have been completed; and

(f) it conforms to the description in the documentation supplied by the producer and holder; and

(g) It is not waste consisting solely or mainly of dusts, powders or loose fibres; and

(h) It is not hazardous wastes; and

(i) It is not waste in liquid form.

2.6.5 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 2.6.1.

2.6.6 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.

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

2.6.8 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing WR7346/21/05 dated 19/03/2018.

2.6.9 The quantity of waste that is deposited or recovered in the landfill in any year shall not exceed the limits in schedule 1, table S1.5.

2.6.10 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or recovery and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

2.6.11 For the following activities referenced in schedule 1, Table S1.1 (A2 & A3) hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.6.12 For the following activities referenced in schedule 1, Table S1.1 (A2 & A3) the operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

(c) the nature of the process producing the waste;

(d) the composition of the waste;

(e) the handling requirements of the waste;

(f) the hazardous property associated with the waste, if applicable; and

(g) the waste code of the waste.

2.6.13 For the following activities referenced in schedule 1, Table S1.1 (A2 & A3) the operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

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

3.1.5 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.

3.1.6 For the following activities referenced in schedule 1, Table S1.1 (A2 & A3) periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

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

3.2.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

(b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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

3.3 Odour

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

3.3.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;

(b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

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

3.4.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

(b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:

(a) Leachate specified in tables S3.1 and S3.11;

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

(c) Groundwater specified in tables S3.4 and S3.9;

(d) Landfill gas specified in tables S3.5, S3.8 and S3.10;

(e) Surface water specified in table S3.12;

(f) Particulate matter specified in table S3.7;

(g) Ambient air specified in table S3.13; and

(h) Biofilter monitoring in table S3.14.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

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

(a) annually; and

(b) prior to the disposal of waste in any new cell or new development area of the landfill; and

(c) following closure of the landfill or part of the landfill.

3.6 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.

3.7 Fire prevention

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

3.7.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;

(b) implement the fire prevention 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.

for the following activities referenced in schedule 1, table S1.1 (A2 & A3):

(vii) off-site environmental effects; and

(viii) matters which affect the condition of the land and groundwater.

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

4.2 Reporting

4.2.1 The operator shall send reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year ('the annual report') shall be submitted to the Environment Agency by 31st January each year or such other date as may be agreed in writing by the Agency, with the exception of 4.2.2(c) that must be provided by the end of February each year. The report(s) shall include as a minimum:

(a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this installation and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;

(b) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

(c) the annual production/treatment set out in schedule 4, table S4.2;

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

(e) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;

(f) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;

(g) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey; and

(h) a plan(s) ('the monitoring and extraction point plan – MEPP') showing the locations of existing and any new leachate and landfill gas extraction and monitoring points.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

(a) in respect of the parameters and emission points specified in schedule 4, table S4.1;

(b) using the forms specified in schedule 4, table S4.4 or other reporting format as agreed in writing with the Environment Agency; and

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

4.2.4 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.2.5 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 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 For the following activities referenced in schedule 1, table S1.1 (A2 & A3) where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

(a) any change in the operator's trading name, registered name or registered office address; and

(b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

(a) any change in the operator's name or address; and

(b) any steps taken with a view to the dissolution of the operator.

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.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

(a) the Environment Agency shall be notified at least 14 days before making the change; and

(b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities				
Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A1	D5 –Specially engineered landfill 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.
A2	D8 – Biological treatment of waste and R5 - the recycling or reclamation of inorganic material	Section 5.3 Part A(1)(a)(i) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day	Bioremediation process for hazardous waste	From receipt of waste through to storage of treated waste. Treatment by bioremediation only. Limited to the hazardous waste types and quantity detailed in table S2.5. Including addition of non-hazardous waste limited to the types and quantity also detailed in table S2.5.
A3	D15 – Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	Section 5.6 Part A(1)(a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes	Temporary storage of hazardous waste	Storage pending treatment in the bioremediation process (Activity A2). Limited to the waste types and quantity detailed in table S2.5.
Directly Associated Activities				
A4	R1 – use principally as a fuel to generate energy	-	Pre-treatment and utilisation of landfill	Treatment and utilisation of 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
			gas for energy recovery in an appliance with a rated thermal input < 50MW	Pre-treatment via filtration of contaminants from the landfill gas and associated filter regeneration.
A5	N/A	-	Temporary storage of waste (leachate)	Leachate arising from the landfill.
A6	N/A	-	Flaring of landfill gas for disposal in an appliance.	Landfill gas arising from the landfill.
A7	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.
A8	N/A	-	Storage of fuel for operation of plant and equipment.	Fuel storage tank.
A9	N/A	-	Discharge of leachate to foul sewer	Leachate arising from the landfill.
A10	D8 – Biological treatment of waste	-	Storage and treatment of non-hazardous waste in	Limited to the non-hazardous waste types and quantities detailed in table S2.5.

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
	R5 - the recycling or reclamation of inorganic material D15 – Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)		the bioremediation process.	
A11	-	-	Screening of soils to remove oversize material following treatment by the bioremediation process	Limited to soils that have treated under Activity A2 – Bioremediation process.
A12	-	-	Temporary storage of raw materials for use in the bioremediation process.	From receipt of raw materials to despatch for use within the bioremediation process.
A13	-	-	Collection, storage and treatment of contaminated surface water runoff and process effluent from the	From collection of contaminated surface water runoff and process effluent to discharge to foul sewer.

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
			bioremediation process.	
Waste operations				
A14	R13: Storage of wastes pending any of the operations numbered R5 and R10 R5: Recycling or reclamation of other inorganic materials R10: Land treatment resulting in benefit to agriculture or ecological improvement	-	Deposit for Recovery	The use and associated secure storage of a maximum of 560,000m^3 of wastes listed in table S2.3 and S2.4 for the purposes of recovery. As detailed in the approved waste recovery plan dated June 2018 as detailed in table S1.2. In any event the total quantity of waste used shall not exceed the amount needed to complete the recovery operation to the final levels in the approved waste recovery plan dated June 2018 as detailed in table S1.2. Only the waste types specified in table 2.3 and S2.4 that are specified in the approved waste recovery plan shall be accepted. Such wastes shall only be used as specified in the approved waste recovery plan. No waste shall be deposited into a water body or sub-water table. Waste types coded 17 05 04 and 20 02 02 that are top soils or peat and waste coded 02 04 01 that is soil from cleaning and washing beet shall only be used for R10 activities and limited to use in the top 50cm of the recovery activity and shall only be used to provide a growing medium. Storage of waste prior to use in the recovery activity shall be limited to 12 months.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	The response to questions 2.1, 2.2, 2.3, 2.4 and 2.5 in Part B of the Application Form and Annexes to Application Form parts A, B and F 1 to 21 of the application excluding Annex 14, including Section A of the Application Environmental Setting and Installation Design Report and Drawings dated October 2004 but excluding drawings ESID8 & ESID11, including Section B of the Application Hydrogeological Risk Assessment dated October 2004 but excluding tables HRA7 & HRA9, including Section C of the Application Stability Risk Assessment dated October 2004, including Section D of the Application Landfill Gas Risk Assessment dated October 2004, including Section E of the Application Risk Assessment for Nuisance and Health Issues.	14/10/2004
Flood Risk Assessment	The response to the request for a Flood Risk Assessment dated 10 December 2004	14/12/2004
Stability Risk Assessment Response to Request for Further Information	The response to request for further information dated April 2005	09/05/2005
Notice Requiring Further Information dated 30/06/2005	The response to Schedule 4 Notice requiring further information dated 05/08/2005 excluding the response to questions 4, 11 and 12	05/08/2005
Flood Risk Assessment	The response to the request for a Flood Risk Assessment dated July 2005 (which complements Flood Risk Assessment dated 10/12/04	05/08/2005
Correspondence from SLR dated 26/08/2005	Additional information to support the response to Schedule 4 Notice requiring information, excluding the response to questions 4, 11 and 12, see above	26/08/2005
Surface Water Management Plan	Submitted in response to requirements of Planning Permission.	19/08/2005
Amended drawings ESID8 & ESID11 dated November 2005 and Table HRA7	Submitted by SLR Consulting Limited in support of amendments to the PPC permit application, replacing the original versions of drawings ESID8 & ESID11 and Table HRA7	07/11/2005
Proposals for the dust and PM10 monitoring location submitted in accordance with improvement condition 11(i)	SLR Ref 403-0197-00286, Drawing 391M083A	22/10/2005
Interim calibration FLAC model submitted in accordance with improvement condition 9(i)	All sections	21/10/2005
Submission from WRG of a Site Management System (SMS) Pointer Document	SMS Pointer Document	06/12/2006
Landfill Gas Management Plan submitted in accordance with improvement condition 1	All sections	09/02/2007

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Welbeck Landfill Site Leachate Management Plan dated November 2006, submitted in accordance with improvement condition 3 & 13	All sections	08/12/2006
Dust and PM10 Monitoring and Management response to improvement condition 11(ii) & (iii)	All sections	21/05/2007
Variation application MP3731UK	The response to questions 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7.1, 2.7.2, 2.7.3, 2.8, 2.9, 2.10, 2.11 and 2.12 given in Part C of the application form	14/09/2007
Waste Settlement Study – SLR ref: 403-0197-00505	All	September 2007
Stability Risk Assessment Addendum Report ref: 403-0197-00505/SRA	All	September 2007
ESID4 ref: 403-0197-00505_0607_PV_ESID4_2DD	All	September 2007
HRA update ref: 403-0197-00505/HRA	All	September 2007
Updated LFGRA ref: 403-0197-00505/LFGRA	All	September 2007
Response to IC14	Response to Improvement Condition 14 – Ambient Air Emission Testing of Methane and Hydrogen Sulphide at the Installation Boundary (June 2008 version)	June 2008
Response to IC13	Leachate Management Plan submitted in response to IC13	February 2009
Response to IC 8	Groundwater Compliance Limits and Control Levels Doc ref: SLR ref: 401-00197-00854	October 2012
Variation Application	Section 1.0 of the application document and Part C3 of the application form	21/10/2011
Response to Schedule 5 Notice dated 05/12/2011	Response to question 1 on site operating procedures, question 2 on documentation, question 3 on communication with PpTek, question 4 condensate removal and question 5 on relevant guidance.	15/12/2011
Application for variation EPR/WP3330BZ/V009	Application forms C2 and C3 and relevant supporting information	02/03/2015
Response to Schedule 5 Notice dated 18/11/2014	Response to the following questions: Q1 – proposals in relation to assessing PTEs (Potentially Toxic Elements) in the final soil profile Q2 – proposed sources of CLO for use in the Welbeck restoration scheme Q9 – confirmation that CLO will not be blended with green waste compost Q10 – consideration of fire risk in CLO stockpiles	02/03/2015

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Response to Schedule 5 Notice dated 25/03/2015	Response to the following questions: Q1 – proposals in relation to assessing physical contaminants in the final soil profile Q3 – proposals for further CLO monitoring prior to operation, and for waste pre-acceptance and acceptance monitoring of CLO	09/04/2015
Response to Permitting Officer email dated 22/04/2015	Information and site plan (drawing no. 391D_RN_CS, Plan 2) in relation to the revised storage location for CLO on the existing redundant composting pad.	30/04/2015
Application for variation EPR/WP3330BZ/V011	Documents provided in response to section 3a – technical standards of Part B4 and Part C3 of the application forms; ESID 4 Site Layout and Waste Deposition Plan dated 16/04/18, ESID 5 Restoration Drawing Rev. 1 dated 04/06/18, Restoration Plan dated June 2018, ESID 6 Installation Design Revision 3, Drawing Leachate Compliance levels WR7358/10/HRA2, Landfill Gas Risk Assessment 2018, ESID 11 Hydrogeology Revision 3 dated 16/04/18, Hydrogeological Risk Assessment 2018, Drawing HRA WR7358/10/HRA1, Appendix ESID 14 Surface Water Management Plan KRS.0297.008.R.002.A dated March 2018, ESID Review 2018, H1 Risk Assessment 2018, Stability Risk Assessment dated March 2018, Variation Supporting Statement dated 2018.	Duly Made 30/10/2018
Application for variation EPR/WP3330BZ/V011	Approved waste recovery plan: Waste Recovery Plan (WR7358/WRP) Waste Recovery Operations Plan (WR7358//10/WRP1) Waste Recovery Operations Landform Sections (WR7358/10/WRP2)	June 2018
Schedule 5 dated 08/02/2019 EPR/WP3330BZ/V011	Schedule 5 response and associated documents including; Leachate Management Plan WR7358/LMP dated March 2019 and; Post Settlement Contour Plan WR7346/21/06 dated 19/03/2018.	13/03/2019
Further Information EPR/WP3330BZ/V011	Plan reference ESID8 Revision 6 Landfill Gas Management dated 28/08/2019	04/09/2019
Further Information EPR/WP3330BZ/V011	Leachate Management Plan WR7358/LMP (rev1)	November 2019
Application for variation EPR/WP3330BZ/V012	Application forms C2 and C3 and supporting information excluding Treatment Process Description & SGN 5.06 Indicative BAT Review document – Sept 2020 – (Doc ref: 4259-CAU-XX-XX-RP-V-0305-AO.C1)	Duly made 07/10/2020

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Response to Schedule 5 notice issued 11/02/2021	All parts of response - document ref: 4259-CAU XX-XX-CO-V-9101.AO.C1) STC – WI-014 Welbeck STF Pad Maintenance (dated 11/02/21)	19/03/2021
	Dust Emissions Management Plan - Feb 2021 (Doc ref: 4259-CAU-XX-XX-RP-V-0308) Treatment Process Description & SGN 5.06 Indicative BAT Review - Feb 2021 (Doc ref: 4259-CAU-XX-XX-RP-V-0305-AO.C2)	08/03/2021

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
15	The operator shall submit in writing to the Environment Agency for approval a methodology for the periodic assessment and review of the waste settlement study (SLR ref: 403-0197-00505). Particular attention should be given to the review of biodegradable waste content. The review of biodegradable waste inputs should use up to date waste input data. The review should also incorporate all available waste survey data. The aim of the review should be to assist calibration of the model used.	08/02/2020
16	The Operator shall submit to the Environment Agency for approval an assessment of the risk of hazardous pollutants to water resulting from the discharge of process effluent and contaminated surface water runoff to sewer from the soil treatment facility. The assessment shall be written in accordance with Environment Agency guidance https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit or a surface water pollution (via sewer) risk assessment methodology as advised by the Environment Agency. Hazardous pollutant concentrations used in the assessment shall be derived from effluent monitoring data gathered when the installation is fully operational.	Within 12 months of completion of commissioning of the Soil Treatment Facility or as agreed in writing with the Environment Agency

Table S1.5 Annual waste input limits	
Category	**Limit Tonnes/ Year**
Non-hazardous waste	800,000
Inert waste	200,000
Waste for restoration	200,000
Waste for recovery	

Schedule 2 – List of permitted wastes

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
02 01 10	waste metal
02 02	**wastes from the preparation and processing of meat, fish and other foods of animal origin**
02 02 01	sludges from washing and cleaning
02 02 02	animal-tissue waste
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**

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
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
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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 01 17	bitumen
05 06	**wastes from the pyrolytic treatment of coal**
05 06 04	waste from cooling columns
05 07	**wastes from natural gas purification and transportation**
05 07 02	wastes containing sulphur
06	**Wastes from inorganic chemical processes**
06 03	**wastes from the MFSU of salts and their solutions and metallic oxides**
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 16	metallic oxides other than those mentioned in 06 03 15
06 05	**sludges from on-site effluent treatment**
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06	**wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes**
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
06 09	**wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes**
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	**wastes from the manufacture of inorganic pigments and opacificiers**
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 13	**wastes from inorganic chemical processes not otherwise specified**
06 13 03	carbon black
07	**Wastes from organic chemical processes**
07 01	**wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals**
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02	**wastes from the MFSU of plastics, synthetic rubber and man-made fibres**
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 13	waste plastic
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 02 17	waste containing silicones other than those mentioned in 07 02 16
07 03	**wastes from the MFSU of organic dyes and pigments (except 06 11)**
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
07 04	**wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides**
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05	**wastes from the MFSU of pharmaceuticals**
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 14	solid wastes other than those mentioned in 07 05 13
07 06	**wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics**
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07	**wastes from the MFSU of fine chemicals and chemical products not otherwise specified**
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
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 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
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 02 02	aqueous sludges containing ceramic materials
08 03	**wastes from MFSU of printing inks**
08 03 07	aqueous sludges containing ink
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 18	waste printing toner other than those mentioned in 08 03 17
08 04	**wastes from MFSU of adhesives and sealants (including water proofing products)**
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
09	**Wastes from the photographic industry**
09 01	**wastes from the photographic industry**
09 01 07	photographic film and paper containing silver or silver compounds

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
09 01 08	photographic film and paper free of silver or silver compounds
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	**wastes from lead thermal metallurgy**
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	**wastes from zinc thermal metallurgy**
10 05 01	slags from primary and secondary production
10 05 04	other particulates and dust
10 05 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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
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
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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
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
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 01	**wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)**
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 02	**wastes from non-ferrous hydrometallurgical processes**
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05	**wastes from hot galvanising processes**
11 05 01	hard zinc
11 05 02	zinc ash
12	**Wastes from shaping and physical and mechanical surface treatment of metals and plastics**
12 01	**wastes from shaping and physical and mechanical surface treatment of metals and plastics**
12 01 01	ferrous metal filings and turnings

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
12 01 02	ferrous metal dust and particles
12 01 03	non-ferrous metal filings and turnings
12 01 04	non-ferrous metal dust and particles
12 01 05	plastics shavings and turnings
12 01 13	welding wastes
12 01 15	machining sludges other than those mentioned in 12 01 14
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
15	**Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified**
15 01	**packaging (including separately collected municipal packaging waste)**
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
15 02	**absorbents, filter materials, wiping cloths and protective clothing**
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	**Wastes not otherwise specified in the list**
16 01	**end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
16 01 03	end-of-life tyres
16 01 12	brake pads other than those mentioned in 16 01 11
16 01 17	ferrous metal
16 01 18	non-ferrous metal
16 01 19	plastic
16 01 20	glass
16 02	**wastes from electrical and electronic equipment**
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
16 03	**off-specification batches and unused products**
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 08	**spent catalysts**
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 11	**waste linings and refractories**
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
17 01	**concrete, bricks, tiles and ceramics**
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	**wood, glass and plastic**
17 02 01	wood
17 02 02	glass
17 02 03	plastic
17 03	**bituminous mixtures, coal tar and tarred products**
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 04	**metals (including their alloys)**
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
17 05	**soil (including excavated soil from contaminated sites), stones and dredging spoil**
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	**insulation materials and asbestos-containing construction materials**
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 09	**other construction and demolition wastes**
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
18	**Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)**
18 01	**wastes from natal care, diagnosis, treatment or prevention of disease in humans**
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)
18 02	**wastes from research, diagnosis, treatment or prevention of disease involving animals**
18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection
18 02 06	chemicals other than those mentioned in 18 02 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 01	**wastes from incineration or pyrolysis of waste**
19 01 02	ferrous materials removed from bottom ash
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 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 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 03	**stabilised/solidified wastes**
19 03 05	stabilised wastes other than those mentioned in 19 03 04
19 03 07	solidified wastes other than those mentioned in 19 03 06
19 04	**vitrified waste and wastes from vitrification**
19 04 01	vitrified waste
19 05	**wastes from aerobic treatment of solid wastes**
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 06	**wastes from anaerobic treatment of waste**
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 01	screenings
19 08 02	waste from desanding
19 08 05	sludges from treatment of urban waste water
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09	**wastes from the preparation of water intended for human consumption or water for industrial use**
19 09 01	solid waste from primary filtration and screenings
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 09 06	solutions and sludges from regeneration of ion exchangers
19 10	**wastes from shredding of metal-containing wastes**
19 10 01	iron and steel waste
19 10 02	non-ferrous waste
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06	other fractions other than those mentioned in 19 10 05

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
19 11	**wastes from oil regeneration**
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	**wastes from soil and groundwater remediation**
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**separately collected fractions (except 15 01)**
20 01 01	paper and cardboard
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 25	edible oil and fat
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 30	detergents other than those mentioned in 20 01 29
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	**Description**
20 01 41	wastes from chimney sweeping
20 02	**garden and park wastes (including cemetery waste)**
20 02 01	biodegradable waste
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	**other municipal wastes**
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning
20 03 07	bulky waste

Table S2.2 Permitted waste types for restoration (Activity A1)	
Waste code	**Description**
Agreed in accordance with the Restoration Plan approved under condition 2.6.2	
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals
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 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 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 05	soil (including excavated soil from contaminated sites), stones and dredging spoil

Table S2.2 Permitted waste types for restoration (Activity A1)	
Waste code	**Description**
Agreed in accordance with the Restoration Plan approved under condition 2.6.2	
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 05 99	wastes not otherwise specified (Compost like output derived from non-source segregated biodegradable waste)
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 12 12	Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
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 S2.3 Permitted waste types and quantities for treatment and use of waste in deposit for recovery operations up to 1m of final levels. (Activity A8)		
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 125,000 m^3 per year**	
Waste code	Description	Additional Restrictions
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS	

Table S2.3 Permitted waste types and quantities for treatment and use of waste in deposit for recovery operations up to 1m of final levels. (Activity A8)		
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 125,000 m^3 per year**	
Waste code	Description	Additional Restrictions
01 01	wastes from mineral excavation	
01 01 02	wastes from non metalliferous excavation	Restricted to waste overburden and interburden only
01 04	wastes from physical and chemical processing of non-metalliferous minerals	
01 04 08	waste gravel and crushed rocks other than those containing dangerous substances	
01 04 09	waste sand and clays	
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products	
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)	
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them	
10 13 14	waste concrete and concrete sludge	
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 01	concrete, bricks, tiles and ceramics	
17 01 01	Concrete	
17 01 02	Bricks	
17 01 03	tiles and ceramics	
17 01 07	mixtures of concrete, bricks, tiles and ceramics	Metal from reinforced concrete must have been removed
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	Restricted to subsoil and stones only
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	
19 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)	Restricted to wastes from treatment of waste aggregates that are otherwise naturally occurring minerals. Does not include fines from treatment of any non-hazardous waste or gypsum from recovered plasterboard

Table S2.3 Permitted waste types and quantities for treatment and use of waste in deposit for recovery operations up to 1m of final levels. (Activity A8)		
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 125,000 m^3 per year**	
Waste code	Description	Additional Restrictions
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	Restricted to crushed bricks, tiles, concrete and ceramics only. Metal from reinforced concrete must be removed. Does not include fines from treatment of any non-hazardous waste or gypsum from recovered plasterboard
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	Restricted to subsoil and stones only

Table S2.4 Permitted waste types and quantities for use of waste in land treatment to support restoration operations within 1m of final levels. (Activity A8)		
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 125,000 m^3 per year**	
Waste code	Description	Additional Restrictions
01	WASTE RESULTING FROM EXPLORATION, MINING, QUARRYING AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS	
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 06	
01 04 09	Waste sand and clays	
02	WASTE FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING	
02 04	wastes from sugar processing	
02 04 01	Soil from cleaning and washing beet	Shall be limited to use in the top 50cm of the recovery activity and shall only be used to provide a growing medium

Table S2.4 Permitted waste types and quantities for use of waste in land treatment to support restoration operations within 1m of final levels. (Activity A8)		
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 125,000 m^3 per year**	
Waste code	Description	Additional Restrictions
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-inked paper sludge and de-inked paper pulp from paper recycling only	Shall be limited to use in the top 50cm of the recovery activity and shall only be used to provide a growing medium
03 03 09	lime mud waste	Shall be limited to use in the top 50cm of the recovery activity and shall only be used to provide a growing medium
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 05	soils (excluding excavated soils from contaminated sites), stones and dredgings	
17 05 04	soil and stones including chalk other than those mentioned in 17 05 03	Restricted to topsoil, peat, subsoil and stones only. Topsoil and peat shall be limited to use in the top 50cm of the recovery activity and shall only be used to provide a growing medium
17 06 06	dredging spoil other than those containing hazardous substances	
19	WASTE 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 waste	
19 05 03	compost from source segregated biodegradable waste only	Shall be limited to use in the top 50cm of the recovery activity and shall only be used to provide a growing medium
19 05 99	wastes not otherwise specified	Compost like Outputs derived from non-source segregated biodegradable wastes only. Shall be limited to use in the top 50cm of the recovery activity and shall only be used to provide a growing medium
19 08	wastes from waste water treatment plants not otherwise specified	
19 08 05	sludges from treatment of urban waste water	Shall be limited to use in the top 50cm of the recovery activity and shall only be used to provide a growing medium
19 09	wastes from the preparation of water intended for human consumption or waste for industrial use	

Table S2.4 Permitted waste types and quantities for use of waste in land treatment to support restoration operations within 1m of final levels. (Activity A8)		
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 125,000 m^3 per year**	
Waste code	Description	Additional Restrictions
19 09 02	sludges from water clarification	Shall be limited to use in the top 50cm of the recovery activity and shall only be used to provide a growing medium
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) only	Restricted to wastes from treatment of waste aggregates that are otherwise naturally occurring minerals. Does not include fines from treatment of any non-hazardous waste or gypsum from recoveredplasterboard
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	Soil substitutes should be free from contaminants such as asbestos fragments, plastics, glass, metals, treated timber, foils and films.
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	
20 02	garden and park wastes	
20 02 02	soil and stones	Restricted to topsoil, peat, subsoil and stones only and shall be limited to use in the top 50cm of the recovery activity and shall only be used to provide a growing medium

Table S2.5 Permitted hazardous waste types for storage and treatment in the soil treatment process.	
Maximum Quantity	**No more than 29,999 tonnes of hazardous and 1,500 tonnes of non- hazardous waste (used as an additive) shall be treated in the soil treatment process per annum.** **Total waste on site including hazardous waste and non-hazardous stored pending treatment; hazardous waste and non-hazardous waste undergoing treatment shall not exceed 29,999 tonnes at any one time.**
Waste code	**Description**
01	**Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals**
01 05	**Drilling muds andother 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 05*	Oil spills

Table S2.5 Permitted hazardous waste types for storage and treatment in the soil treatment process.	
Maximum Quantity	**No more than 29,999 tonnes of hazardous and 1,500 tonnes of non- hazardous waste (used as an additive) shall be treated in the soil treatment process per annum.** **Total waste on site including hazardous waste and non-hazardous stored pending treatment; hazardous waste and non-hazardous waste undergoing treatment shall not exceed 29,999 tonnes at any one time.**
Waste code	**Description**
13	**Oil wastes and wastes of liquid fuels (except edible oils, and those in chapters 05, 12 and 19)**
13 05	**Oil/water separator contents**
13 05 01*	Solids from grit chambers and oil/water separators
13 05 02*	Sludges from oil/water separators
13 05 03*	Interceptor sludges
13 05 08*	Mixtures of wastes from grit chambers and oil/water separators
17	**Construction and demolitions wastes (including excavated soil from contaminated sites)**
17 02	**Wood, glass and plastic**
17 02 01	Wood Note 1
17 05	**Soil (including excavated soil from contaminated sites), stones and dredging spoil**
17 05 03*	Soil and stones containing hazardous substances
17 05 05*	Dredging spoil containing hazardous substances
17 05 07*	Track ballast containing hazardous substances
19	**Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use**
19 02	**Wastes from physico/chemical treatment treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 05*	sludges from physico/chemical treatment containing hazardous substances – wastes suitable for biological treatment only
19 05	**wastes from aerobic treatment of solid wastes**
19 05 03	off-specification compost Note 1
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 13*	Sludges containing hazardous substances from other treatment of industrial waste water
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 11*	Other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 07	Wood other than those mentioned in 19 12 06 Note 1
19 13	**Wastes from soil and groundwater remediation**
19 13 01*	Solid wastes from soil remediation containing hazardous substances
19 13 03*	Sludges from soil remediation containing hazardous substances

Table S2.5 Permitted hazardous waste types for storage and treatment in the soil treatment process.	
Maximum Quantity	**No more than 29,999 tonnes of hazardous and 1,500 tonnes of non- hazardous waste (used as an additive) shall be treated in the soil treatment process per annum.** **Total waste on site including hazardous waste and non-hazardous stored pending treatment; hazardous waste and non-hazardous waste undergoing treatment shall not exceed 29,999 tonnes at any one time.**
Waste code	**Description**
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions.**
20 03	**Oil/water separator contents**
20 03 03	Street cleaning residues limited to leaf litter following removal of residues Note 1
Note 1: Non-hazardous waste used as an additive.	

Schedule 3 – Emissions and monitoring

Table S3.1 Leachate level limits and monitoring requirements				
Monitoring point reference/ Description		**Limit**	**Monitoring frequency**	**Monitoring standard and method**
Operational Cells or Phases (Any cells or phases that do not have a final engineered cap agreed in accordance with the landfill engineering condition, 2.6)				
As shown on drawing titled Environmental Monitoring Plan (Plan No. 4A, Drawing No. 391M296) dated 19/05/21.				
Cell 1	LCP01A/11	24mAOD	Monthly	As specified in Environment Agency Guidance LFTGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan
Cell 2	LCP02A/11	24mAOD		
	LMP02A/11	24mAOD		
	LMP02B/11	24mAOD		
Cell 3	LCP03	27mAOD		
	LMP03B	27mAOD		
Cell 4	LCP04/19	24mAOD		
	LMP04A	24mAOD		
	LMP04B	24mAOD		
Cell 5A	LCP05A	24mAOD		
	LMP05A1/14	24mAOD		
Cell 5B	LCP05B	24mAOD		
	LMP05B2/19	24mAOD		
Cell 6	LCP06	24mAOD		
	LMP06A	24.5mAOD		

Table S3.1 Leachate level limits and monitoring requirements				
Monitoring point reference/ Description		**Limit**	**Monitoring frequency**	**Monitoring standard and method**
	LMP06B	25mAOD		
Non Operational Cells or Phases (Any cells or phases that have a final engineered cap agreed in accordance with the landfill engineering condition, 2.6)				
To be confirmed as and when cells become non-operational.		-	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.

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**
LFGE 1 and 4, as shown on Plan ESID 6 Rev 6 dated 28/08/2019	Oxides of Nitrogen	Gas utilisation plant	650 mg/m^3	Hourly mean	Annually	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency
	CO		1500 mg/m^3			
	Total VOCs		1750 mg/m^3			
LFGE 2 and 3 as shown on Plan ESID 6 Rev 6 dated 28/08/2019	Oxides of Nitrogen		500 mg/m^3			
	CO		1400 mg/m^3			

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**
	Total VOCs		1000 mg/m^3			
Flare 1, 2 & 3 as shown on Plan ESID 6 Rev 6 dated 28/08/2019	Oxides of Nitrogen	Landfill Gas Flares	150 mg/m^3	Hourly mean	Annually	As per M2 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.
	CO		50 mg/m^3			
	Total VOCs		10 mg/m^3			
Biofilter as shown on drawing – Proposed site and drainage layout plan –No. 4259-CAU-XX-XX-DR-V-1802	Ammonia	Biofilter at Soil Treatment Facility	20 mg/m^3	Hourly mean	Every 6 months	EN ISO 21877 or as agreed in writing with the Environment Agency.
	TVOCs		40 mg/m^3			As agreed in writing with the Environment Agency.
	Hydrogen Sulphide		No Limit set			CEN TS 13649 for sampling, NIOSH 6013 for analysis or as agreed in writing with the Environment Agency.
	Total Petroleum Hydrocarbons (TPH)		No limit set		Monthly	As described in variation application EPR/WP3330BZ/V012 or as agreed in writing with the Environment Agency.
	Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)		No limit set			

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**
	Polycyclic Aromatic Hydrocarbons (PAHs)		No limit set			

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) Note 1	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Outlet 1 as shown on drawing titled Environmental Monitoring Plan (Plan No. 4A, Drawing No. 391M296) dated 19/05/21.	Flow	Site drainage from site	31,104 m^3/day	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
	Suspended solids		100 mg/l			
	Dissolved Iron		1700 mg/l			
	Dissolved Lead		10 µg/l			
	Dissolved Nickel		41 µg/l			
	Dissolved Copper		37 µg/l			
	pH		6-9			
	Visible oil or grease		None			
Outlet 2 as shown on drawing titled Environmental Monitoring Plan	Suspended solids		100 mg/l			
	Dissolved Iron		1700 mg/l			
	Dissolved Lead		10 µg/l			

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) Note 1	Reference Period	Monitoring Frequency	Monitoring Standard or Method
(Plan No. 4A, Drawing No. 391M296) dated 19/05/21.	Dissolved Nickel		41 µg/l			
	Dissolved Copper		37 µg/l			
	pH		6-9			
	Visible oil or grease		None			
Note 1: Table S3.3 to be revised following compliance with pre-operational condition 4 in Table S1.4						

Table S3.4 Groundwater – emission limits and monitoring requirements					
Monitoring point reference – as shown on drawing titled Environmental Monitoring Plan (Plan No. 4A, Drawing No. 391M296) dated 19/05/21.	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
GW01/11/ALV	Chloride	932 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
99/GW02		3690 mg/l			
99/GW03		575 mg/l			
GW04/11/ALV		1845 mg/l			
99/GW05		715 mg/l			
GW06/11/ALV		334 mg/l			
99/GW07		783 mg/l			
GW01/11/ALV	Ammoniacal Nitrogen	11.9 mg/l			

Table S3.4 Groundwater – emission limits and monitoring requirements					
Monitoring point reference – as shown on drawing titled Environmental Monitoring Plan (Plan No. 4A, Drawing No. 391M296) dated 19/05/21.	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
99/GW02		19.3 mg/l			
99/GW03		154 mg/l			
GW04/11/ALV		131 mg/l			
99/GW05		22.1 mg/l			
GW06/11/ALV		2.85 mg/l			
99/GW07		1.5 mg/l			
GW01/11/ALV, 99/GW02, 99/GW03, GW04/11/ALV, 99/GW05, GW06/11/ALV, 99/GW07	m-Xylene p-Xylene o-Xylene	3 µg/l			
99/G W02	Cadmium	7.8 µg/l			
99/GW03		16 µg/l			
99/GW05		17 µg/l			
99/GW07		8.1 µg/l			
99/GW02	Mecoprop	0.61 µg/l			
99/GW03		0.53 µg/l			
99/GW05		0.06 µg/l			
99/GW07		0.05 µg/l			
99/GW02, 99/GW03, 99/GW05, 99/GW07	MTBE	20 µg/l			

Table S3.4 Groundwater – emission limits and monitoring requirements					
Monitoring point reference – as shown on drawing titled Environmental Monitoring Plan (Plan No. 4A, Drawing No. 391M296) dated 19/05/21.	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
	Phenol	46 µg/l			
	Toluene	4 µg/l			

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements				
Monitoring point reference – as shown on drawing titled Environmental Monitoring Plan (Plan No. 4A, Drawing No. 391M296) dated 19/05/21.	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
99/G01, G02, 99/G21, 99/G22, 99/G23	Methane	2.0%v/v	Monthly	As per LFTGN03 (Sept 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Carbon Dioxide	8.5%v/v		
99/A12a 99/G14 G03	Methane	1.0%v/v		

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements					
Monitoring point reference – as shown on drawing titled Environmental Monitoring Plan (Plan No. 4A, Drawing No. 391M296) dated 19/05/21.			Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
99/G01a 99/G02 99/G03 99/G04 99/G05 99/G06 99/G07 99/G08 99/G09 99/G10 99/G11 99/G12 99/G13A	A01 A01a A02 A03 A04 A05 A06 A07a A08 A09 A10 A11 A12	G04 G05 G06 G05/16 G05/17 G05/18 G05/19 G05/20 G05/24 G05/25 G05/26 G05/27 G05/28	Carbon Dioxide	1.5%v/v		Record whether the ground is: waterlogged frozen snow covered
All perimeter landfill gas monitoring boreholes as shown on drawing titled Environmental Monitoring Plan (Plan No. 4A, Drawing No. 391M296) dated 19/05/21.			Oxygen	no limit		
			Atmospheric pressure	no limit		
			Differential pressure	no limit		

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
Discharge Point 'X'Note1	-	Leachate Holding Lagoon (including runoff from the Soil Treatment Facility)	-	-	-	-
Note 1: Discharge Point marked 'X' as shown on the plan attached to the Discharge of Trade Effluent Consent Registration number Y/2335/06C dated 8 November 2006.						

Table S3.7 Particulate matter in ambient air - monitoring requirements					
Monitoring Point Ref. /Description	Parameter	Limit	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Dust Monitoring Locations 1, 2, 4 & 5 as shown on drawing titled Environmental Monitoring Plan (Plan No. 4A, Drawing No. 391M296) dated 19/05/21.	PM_{10}	50µg/m^3 Note 1		Intermittent (in response to exceedance of deposited dust trigger levels)	In accordance with Environment Agency guidance document M17 – Monitoring Particulate Matter in Ambient Air around Waste Facilities (V2 July 2013) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Deposited dust	200mg/m^2/day		Continuous (sequential monthly samples)	
Note 1: above background levels					

Table S3.8 Landfill gas emissions from capped surfaces for cells that have accepted non hazardous biodegradable waste – monitoring requirements			
Monitoring point Ref. /description	Parameter	Monitoring frequency	Monitoring Standard or method
Permanently capped zone	Methane concentration	Every 12 months	As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Temporarily capped zone	Methane concentration	Every 12 months	As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Whole site	Total Methane emission	As agreed with the Environment Agency	As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Uncapped areas	Methane concentration	Every 12 months	As agreed with the Environment Agency based on the wording of revised LFTGN 07 or landfill sector guidance or such other subsequent guidance as may be agreed in writing with the Environment Agency.

Table S3.9 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 S3.10 Landfill gas – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
In waste gas monitoring boreholes or sealed leachate wells or sacrificial gas extraction system [in cells for non-hazardous waste]	Methane Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure	Monthly until gas extraction commences	Calibrated handheld monitoring instrument	For cells or phases which have no active gas extraction. Gas extraction system shall be installed and extraction commenced once monitoring shows onset of methane production in waste at a rate that can be sustainably extracted. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring.
	Hydrogen Sulphide	Quarterly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (V3 March 2010) or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	For cells or phases which have no active gas extraction. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring. Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans

Table S3.10 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 S3.10 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.
Flares 1, 2 & 3 as shown on Plan ESID 8 Rev 5 dated 08/12/2011	Temperature	As per LFTGN05 (V2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency.	
LFGE 1, 2, 3, and 4, (post turbo) as shown on Plan ESID 8 Rev 5 dated 08/12/2011	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 S3.11 Leachate – other monitoring requirements				
Monitoring point reference or description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Operational Cells or Phases **(Any cell or phases that do not have a final engineered cap agreed in accordance with condition 2.5)**				
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	Quarterly	At leachate compliance points as listed in table S3.1. As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), 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	Annually		
MEPP	Depth to base (mAOD)	Annually		
Non Operational Cells or Phases **(Any cell or phases that have a final engineered cap agreed in accordance with condition 2.5)**				
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 compliance points as listed in table S3.1. As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), 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 S3.12 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.

Table S3.13 Ambient air – other monitoring requirements					
Monitoring Point Ref. /Description	Parameter	Limit	Monitoring frequency	Monitoring standard or method	Other specifications
As agreed in writing with the Environment Agency.	Methane in ambient air	10 ppmv	Monthly	Spot Sample	Flame Ionisation Detector
	Hydrogen sulphide in ambient air	10 ppbv	On exceedance of the methane limit		

Table S3.14 Biofilter process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Biofilter as shown on drawing – Proposed site and drainage plan – No. 4259-CAU-XX-XX-DR-V-1802	Biofilter media moisture content	Weekly or as advised by the Environment Agency.	Moisture meter or recognised industry method	Odour abatement plant shall be regularly checked and maintained to ensure appropriate temperature and moisture content.

Table S3.14 Biofilter process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
	Gas temperature – inlet	Daily	Temperature probe / Traceable to national standards	Odour abatement plant shall be managed in accordance with permit condition 3.3, the odour management plan and manufacturer's recommendations. Equipment shall be calibrated as per manufacturer's instructions, or as agreed in writing by the Environment Agency.
	pH (biofilter drainage effluent)	Daily	pH metre	
	Thatching/compaction	Weekly	Back pressure	
	Gas flow rate – inlet	Continuous	Gas flow meter / EN 16911-1 and MID for EN 16911-1	
	Efficiency assessment	Annual	Media health, air-flow distribution and emission removal efficiency (BS EN 13725 for odour removal)	

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
Particulate matter in ambient air. As required by schedule 3, table S3.7	Every 6 months	30 June, 31 December
Emission of landfill gas from capped surfaces As specified by schedule 3, table S3.8	Every 12 months	31 December
Other groundwater monitoring As specified by schedule 3, table S3.9	Every 3 months	31 March, 30 June, 30 September, 31 December
Other Landfill gas monitoring As specified by schedule 3, table S3.10 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 S3.11	Every 12 months	31 December
Other surface water monitoring As specified by schedule 3, table S3.12	Every 12 months	31 December
Meteorological data Landfill Directive, annex III, section 2	Every 12 months	31 December
Other ambient air monitoring As specified by Schedule 3, table S3.13	Every 12 months	31 December
Biofilter process monitoring As specified by Schedule 3, table S3.14	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
Treatment of hazardous waste in Soil Treatment Facility	Tonnes per year
Treatment of non- hazardous waste in Soil Treatment Facility	Tonnes per year

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
Water Usage	Annually		Tonnes per m^3

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	15/09/2017
Air	Form Air 1 or other reporting format to be agreed in writing with the Environment Agency	15/09/2017
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	15/09/2017
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	15/09/2017
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	15/09/2017

Table S4.4 Reporting Forms		
Media/parameter	Reporting Format	Date of Form
Particulate matter	Form Particulate 1 or other reporting format to be agreed in writing with the Environment Agency	15/09/2017
Biolfilter process	Form Process 1 or other reporting format to be agreed in writing with the Environment Agency	08/06/2021
Waste Return	E-waste Return Form	-
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	-

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;

  (ii) 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.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

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

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

“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.

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

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

“landfill Infrastructure” means any specified element of the:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;
- leachate transfer, treatment and storage systems;
- surface water drainage systems;
- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems;
- lining within the installation.

within the site.

“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.

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

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

"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, S2.2 and 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;

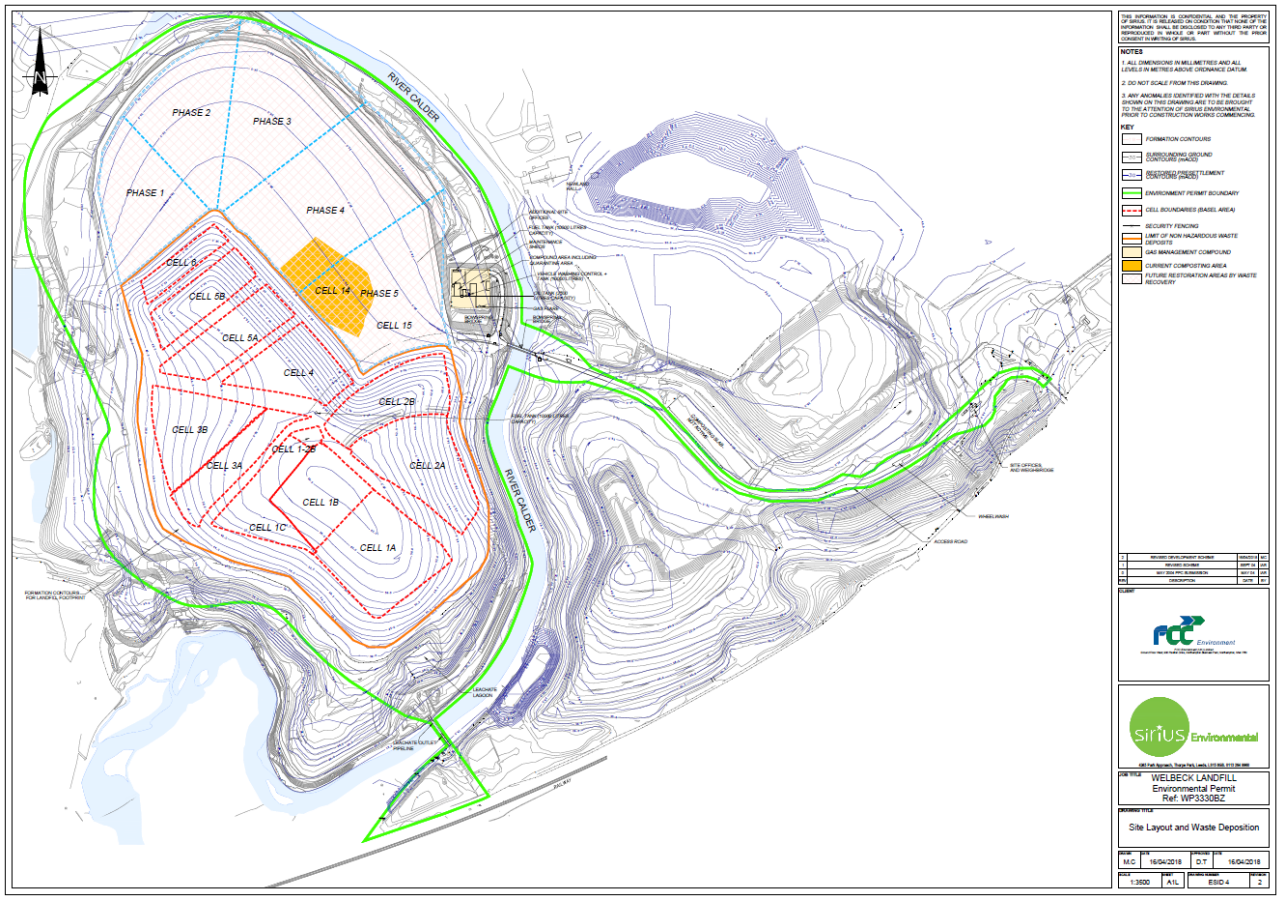
'transition metals' means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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