



Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Flintshire County Council

Brookhill Landfill Site
Pinfold Way
Pinfold Industrial Estate
Buckley
Flintshire
CH7 3LY

Variation application number

EPR/AP3739KS/V004

Permit number

EPR/AP3739KS

Brookhill Landfill Site
Permit number EPR/AP3739KS

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

This variation is to add a transfer facility to the permit. This facility will temporarily store small amounts of waste materials prior to being removed to a permitted facility for further treatment or disposal. There will be no treatment of waste on this site.

The schedules specify the changes made to the original 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 BV7273	Received 08/10/03	
Permit BV7273 determined	17/08/04	
Variation application CP3534LE	12/04/06	
Permit varied YP3835MJ	07/03/07	
Variation CP3534LE determined	14/02/08	
Variation application PD3633GF	Received 09/07/08	
Variation EA/EPR/BV7273IQ/V005 (DP3633GF) determined	01/05/09	
Transfer application EPR/AP3739KS/T001	Duly made 10/02/09	
Transfer EPR/AP3739KS/T001 determined	25/09/09	
Variation EPR/AP3739KS/V002 determined	25/09/09	Add financial provision condition
Variation application EPR/AP3739KS/V003	Duly made 27/04/10	Treatment of leachate by third party
Variation application EPR/AP3739KS/V003 determined	15/05/10	
Variation application EPR/AP3739KS/V004	22/08/11	Add a waste transfer facility to permit
Variation application EPR/AP3739KS/V004 determined	22/11/11	

Superseded or Partially Superseded Licences/Consents relating to this installation			
Holder	Reference number	Date of Issue	Fully or Partially Superseded
AD Waste Limited	EAWML/37207	07/09/1997	Fully

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

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

Permit number
EPR/AP3739KS

issued to:
Flintshire County Council ("the operator")

of

Flintshire County Council Waste Services
County Hall
Mold
Flintshire
CH7 6NB

to operate a regulated facility at

Brookhill Landfill Site
Pinfold Way
Pinfold Industrial Estate
Buckley
Flintshire
CH7 3LY

to the extent set out in the schedules.

The notice shall take effect from 22/11/2011

Name	Date
Andrew Turner	22/11/2011

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

The following conditions are deleted from permit EPR/AP3739KS as a result of the application made by the operator

- all conditions 1 to 4 inclusive,
- all schedules 1 to 7 inclusive

Schedule 2 – conditions to be amended

None

Schedule 3 – conditions to be added

The following conditions are added to permit EPR/AP3739KS as a result of the application made by the operator

- all conditions 1 to 4 inclusive,
- all schedules 1 to 7 inclusive

Permit conditions attached.

Schedule 4 – amended plan

Amended plan attached

1 Management

1.1 General management

- 1.1.1 *For the following activities referenced in table S1.1* 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-conformance, 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 *For the following activities referenced in table S1.1* Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 *For the following activities referenced in table S1.1* 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 *For the following activities referenced in table S1.1* The operator shall comply with the requirements of an approved competence scheme

1.2 Avoidance, recovery and disposal of wastes produced by the activities

- 1.2.1 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2.)* The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.2.2 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2.)* The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

1.3 Finance

- 1.3.1 *For the following activities referenced in schedule 1, table S1.1 (A1)* The financial provision for meeting the obligations under this permit are set out in the agreement Performance Deed (Local Authority), dated 25/09/2009, made between the operator and the Agency shall be maintained by the operator throughout the subsistence of this permit and the operator shall provide evidence of such provision whenever required by the Agency.

1.4 Energy efficiency

1.4.1 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2.)* 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.

1.5 Efficient use of raw materials

1.5.1 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2)* 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.

2 Operations

2.1 Permitted activities

2.1.1 *For the following activities referenced in table S1.1* 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 *For the following activities referenced in table S1.1* The activities shall not extend beyond the site, being the land shown edged in green on the site plans (Map1 Landfill and Map 2 Transfer Station) at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 (a) *For the following activities referenced in table S1.1* 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's S1.2a and S1.2b, unless otherwise agreed in writing by the Environment Agency.
- (b) *For the following activities referenced in table S1.1* 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 specified in schedule 1, table S1.2a or S1.2b or otherwise required under this permit, 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 Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Agency, the operator shall notify the Agency within 14 days of completion of each improvement.

2.5 Waste acceptance

- 2.5.1 *For the following activities referenced in table S1.1 (A8) Waste shall only be accepted if:*

- (a) it is of a type and quantity listed in schedule 2 tables S2.1; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

For the following activities referenced in schedule 1, table S1.1 (A1& A2) Waste shall only be accepted for disposal if;

- (c) they are listed in schedule 2 table S2.2, and
- (d) they are non-hazardous waste
- (e) they are not liquid waste (including waste waters but excluding sludge and *excluding liquid waste accepted at a permitted leachate treatment activity*), and
- (f) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown, and
- (g) all the relevant waste acceptance procedures have been completed, and
- (h) they fulfil the relevant waste acceptance criteria, and
- (i) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
- (j) they are wastes which have been treated, except for: inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment, or liquid waste accepted for treatment at a permitted leachate treatment activity, and
- (k) where there 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.

- 2.5.2 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2) The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:*

- (a) the nature of the process producing the waste;
- (b) the composition of the waste;
- (c) the handling requirements of the waste;
- (d) the hazardous property associated with the waste, if applicable; and
- (e) the waste code of the waste.

- 2.5.3 *For the following activities referenced in schedule 1, table S1.1 (A1)* 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.
- 2.5.4 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2.)* The operator shall visually inspect:
- (a) without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill; and
 - (b) waste at the point of deposit;
- and shall satisfy itself that it conforms to the basic characterisation documentation submitted by the holder.
- 2.5.5 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2)* 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.
- 2.5.6 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2)* The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.5.7 *For the following activities referenced in schedule 1, table S1.1 (A1)* The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing 2127.SETT.01 dated 9th November 2007.
- 2.5.8 *For the following activities referenced in schedule 1, table S1.1 (A1)* The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.3.
- 2.5.9 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2)* 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 Landfill Engineering

- 2.6.1 *For the following activities referenced in schedule 1, table S1.1 (A1)* No construction of any new cell of the landfill shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.2 *For the following activities referenced in schedule 1, table S1.1 (A1)* Where the operator proposes to construct any new cell other than the first cell, but proposes no change from the design of the most recently approved cell which could have any impact on the performance of any element of the design, no construction of the new cell shall commence until the operator has submitted a cell layout drawing and the Environment Agency has confirmed that it is satisfied with the cell layout drawing.
- 2.6.3 *For the following activities referenced in schedule 1, table S1.1 (A1)* The construction of a new cell shall take place only in accordance with the approved construction proposals unless:
- (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.

- 2.6.4 *For the following activities referenced in schedule 1, table S1.1 (A1)* No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.6.5 *For the following activities referenced in schedule 1, table S1.1 (A1)* No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.6 *For the following activities referenced in schedule 1, table S1.1 (A1)* The construction of the landfill infrastructure shall take place only in accordance with the approved construction proposals unless:
- (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.
- 2.6.7 *For the following activities referenced in schedule 1, table S1.1 (A1)* The operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant landfill infrastructure.
- 2.6.8 *For the following activities referenced in schedule 1, table S1.1 (A1)* Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.6.5 and 2.6.6 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.
- 2.6.9 *For the following activities referenced in schedule 1, table S1.1 (A1)* For the purposes of conditions 2.6.1, 2.6.2, 2.6.4 and 2.6.5, the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:
- (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.
- 2.6.10 *For the following activities referenced in schedule 1, table S1.1 (A1)* Where the Environment Agency has required further information under condition 2.6.9(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
- (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.

2.7 Leachate levels

- 2.7.1 *For the following activities referenced in schedule 1, table S1.1 (A1.)* 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 *For the following activities referenced in schedule 1, table S1.1 (A1)* The operator shall maintain a closure and aftercare management plan.

2.9 Landfill gas management

- 2.9.1 *For the following activities referenced in schedule 1, table S1.1 (A1)* 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.
- 2.9.3 *For the following activities referenced in schedule 1, table S1.1 (A1)* 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 flare the gas.
- 2.9.4 *For the following activities referenced in schedule 1, table S1.1 (A1)* The operator shall:
- (b) 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.

2.10 Pests

- 2.10.1 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2)* The activities shall not give rise to pollution or hazards from pests. 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.
- 2.10.2 *For the following activities referenced in schedule 1, table S1.1 (A1 to A2.)* 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;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.11 Technical requirements

WEEE

- 2.11.1 *For the following activities referenced in table S1.1 (A8)* The storage (including temporary storage) of WEEE shall be carried out in accordance with the technical requirements of Annex III of the WEEE Directive.
- 2.11.2 *For the following activities referenced in table S1.1 (A8)* Equipment shall be provided to record the weight of untreated WEEE accepted at, and components and materials leaving the site.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 *For the following activities referenced in table S1.1* 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 and S3.3.
- 3.1.2 *For the following activities referenced in table S1.1* The limits given in 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.
- 3.1.3 *For the following activities referenced in schedule 1, table S1.1 (A1.)* There shall be no emission from the activities into groundwater of any hazardous substances contrary to the EP Regulations.
- 3.1.4 *For the following activities referenced in schedule 1, table S1.1 (A1.)* There shall be no emission from the activities into groundwater of any non-hazardous pollutants so as to cause pollution.
- 3.1.5 *For the following activities referenced in schedule 1, table S1.1 (A1.)* The trigger levels for emissions into groundwater for the parameters and monitoring points set out in schedule 3 table S3.4 shall not be exceeded.
- 3.1.6 *For the following activities referenced in schedule 1, table S1.1 (A1.)* The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:
- (a) between nine and six months prior to the sixth anniversary of the granting of the permit, and
 - (b) between nine and six months prior to every subsequent six years after the sixth anniversary of the granting of the permit.
- 3.1.7 *For the following activities referenced in schedule 1, table S1.1 (A1.)* The limits for landfill gas arising from the installation set out in schedule 3, tables S3.5, 3.6 and S3.7 shall not be exceeded.
- 3.1.8 *For the following activities referenced in schedule 1, table S1.1 (A1.)* The limits for particulate matter arising from the installation set out in schedule 3, table S3.10 shall not be exceeded.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 *For the following activities referenced in table S1.1* 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 *For the following activities referenced in table S1.1* 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;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

- 3.2.3 *For the following activities referenced in table S1.1* All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 *For the following activities referenced in table S1.1* 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 *For the following activities referenced in table S1.1* 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;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 *For the following activities referenced in table S1.1* 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 *For the following activities referenced in table S1.1* 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;
 - (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 *For the following activities referenced in schedule 1, table S1.1 (A1)* The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:
- (a) Leachate specified in tables S3.1 and S3.8;
 - (b) Point source emissions specified in tables S3.2 and S3.3;
 - (c) Groundwater specified in tables S3.4 and S3.9;
 - (d) Landfill gas specified in tables S3.5, 3.6 and S3.7;
 - (e) Surface water specified in table S3.3;
 - (f) Particulate matter specified in table S3.10.
 - (g) Emissions to sewer in table S3.11

3.5.2 *For the following activities referenced in schedule 1, table S1.1 (A1)* The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 *For the following activities referenced in schedule 1, table S1.1 (A1)* A topographical survey of the site referenced to ordnance datum shall be carried out:

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

The topographical survey shall be used to produce a plan of a scale adequate to show the surveyed features of the site.

4 Information

4.1 Records

4.1.1 *For the following activities referenced in table S1.1* All records required to be made by this permit shall:

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

4.1.2 *For the following activities referenced in table S1.1* 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 *For the following activities referenced in table S1.1* The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 *For the following activities referenced in table S1.1* 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.
- 4.2.3 *For the following activities referenced in table S1.1* A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this installation and any agreed amendments thereto;
 - (b) the energy consumed at the site, reported in the format set out in schedule 4 table S4.3
 - (c) the annual production/treatment set out in schedule 4 table S4.2;
 - (d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
 - (e) the volumetric difference (reported in cubic meters) 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 behavior 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 meters) derived from the pre-settlement contours and the most recent topographical survey;
- 4.2.4 *For the following activities referenced in table S1.1* Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.5 *For the following activities referenced in table S1.1* 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.

- 4.2.6 *For the following activities referenced in table S1.1* 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 *For the following activities referenced in table S1.1* The Environment Agency shall be notified without delay following the detection of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
- (b) the breach of a limit specified in the permit; or
- (c) any significant adverse environmental effects.

- 4.3.2 *For the following activities referenced in table S1.1* 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 table S1.1* 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 *For the following activities referenced in table S1.1* 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 *For the following activities referenced in table S1.1* Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change;
and
- (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

4.4.1 *For the following activities referenced in table S1.1* In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 *For the following activities referenced in table S1.1* In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 - Waste activities

Table S1.1 activities

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	Section 5.2 Part A(1)(a), The disposal of waste in a landfill.	Landfill for non-hazardous waste (landfill classification under the Landfill Regulations 2002)	Non-hazardous and inert wastes consisting of the types and quantities specified in condition 2.5, as an integral part of landfilling.
A2	Section 5.3 Part A(1) (c) (i) , The disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by biological treatment.	The treatment of non-hazardous leachate in a leachate treatment plant >50 t/day capacity	Leachate arising from the permitted landfill, Standard Landfill reference EAWML/37207, and other landfill facilities treated at this installation not exceeding 150m ³ /day.
Directly Associated Activity			
A3	Leachate management	Including the storage of leachate prior to treatment.	Management of leachate storage.
A4	Leachate discharges to foul sewer	Discharge of treated leachate from the leachate treatment facility	From leachate management system to point of entry to the sewer.
A5	Landfill gas utilisation	Utilisation of landfill gas for energy recovery in an appliance <3 MW rated thermal input	Landfill gas arising from the landfill.
A6	Landfill gas flaring	Flaring of landfill gas for disposal in an appliance.	Landfill gas arising from the landfill.
A7	Water discharges to controlled waters.	Discharges of site drainage from the landfill.	From surface water management system to point of entry to controlled waters.
Description of activities for waste operations			
A8	D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced) D14: Repackaging prior to submission to any of the operations numbered D1 to D13 R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Receive, store and transfer of non-hazardous waste for disposal (no more than 50 tonnes per day) or recovery The maximum quantity of hazardous waste received at the site for disposal shall not exceed 10 tonnes per day The maximum quantity of hazardous waste stored at the site for disposal shall not exceed 10 tonnes Waste types and quantities as indicated in schedule 2 table S2.1	

Table S1.2a Operating techniques

Description	Parts	Date Received
Application BV7273	The response to questions 1.2, 2.1, 2.2, 2.3, 2.4 and 2.5 in part B of the Application Form	08/10/2003
Letter from Egniol detailing monitoring sections of the application form and amended drawing references	All	21/10/2003
Letter from Egniol detailing clarification on points raised in our letter of 27/02/2004	All	29/03/2004
Revised Drawing ESID 11 Revision A Local Hydrogeology and Hydrology – surface water monitoring points added	All	13/07/2004
Revised Drawing ESID 2 Revision B Environmental Site Setting – legend changed to include installation boundary	All	Dated 06/02/2004, received 17/06/2004
Compliance with Improvement Condition – replacement of groundwater boreholes GW2 and GW3	All	31/05/2005
Compliance with Improvement Condition – location of gas flare	All	06/03/2006
Application CP3534LE	All - except drawing reference 1843.SETT.02	12/04/2006
Letter from Egniol with revised drawing reference 2127.SETT.01	All	03/07/2007
Application DP3633GF	All	09/07/2008
Application EPR/AP3739KS/V003	Document reference 1271/BHV1	27/04/2010

Table S1.2b Operating techniques

Description	Parts	Date Received
Application CP3534LE	The response to questions 3a in part C3 of the application form	22/08/2011
Application CP3534LE	The response to question 3d of part C2 of the application form	22/08/2011

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1.	The operator shall submit a written report to the Agency for approval that details an assessment of the provision of groundwater monitoring boreholes against the requirements of LFTGN02 (Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water, Environment Agency, February 2003) and includes proposals for additional groundwater monitoring boreholes, where appropriate, and time-scales for their construction.	Completed
2.	The operator shall submit a report in writing to the Agency for approval that details a review of the groundwater quality monitoring data in all boreholes on site and the trigger levels in the down-gradient boreholes GW2, GW3 and GW4. This should include data from all boreholes since operations commenced, including collation of baseline data. The report shall include revised trigger levels, where appropriate, for boreholes GW2, GW3 and GW4 and any additional boreholes which shall be set in accordance with LFTGN01 Hydrogeological Risk Assessments for Landfills, Environment Agency, March 2003.	Completed

3.	The operator shall submit a report in writing to the Agency for approval that details a review of the leachate management systems at the site. The report shall include a water balance assessment over the site and identify leachate levels in relation to depth to base of the landfill liner.	Completed
4.	The operator shall submit a written report to the Agency for approval that includes proposals for landfill gas utilisation, including the location and specification of the gas utilisation plant, a report of the impact of emissions from the gas utilisation plant on air quality and the timescale for installation of the gas utilisation plant.	Completed
5.	The operator shall review the results of landfill gas monitoring in boreholes 20 and 21 and shall submit a report to the Agency for approval detailing the results of the review together with proposed trigger levels for methane and carbon dioxide for boreholes 20 and 21.	Completed
6.	The operator shall carry out an assessment of the impact of the emissions from the leachate treatment plant into the sewer on the receiving water in accordance with IPPC H1 Environmental Assessment and Appraisal of BAT, Environment Agency, 2002 and shall submit a written report to the Agency.	Completed
7.	The operator shall carry out an assessment of the pollution prevention measures and secondary containment of the leachate treatment and storage system to include the delivery of leachate to the system from other sites. A written report comparing the current pollution prevention methods and infrastructure of the site to that required by best practice that identifying areas where improvements are required together with timescales for implementation shall be submitted to the Environment Agency for approval.	Completed
8.	The operator must install adequate leachate monitoring wells in accordance with the requirements of Guidance for the Landfill Sector, Technical Requirements of the Landfill Directive and Integrated Pollution Prevention and Control (IPPC S5.02). On installation these must be monitored on a monthly basis as a minimum in accordance with Table S3.1 and S3.8 of the permit.	Completed

Table S1.4 Annual waste input limits

Category	Limit Tonnes/ Year
Landfill	
Non-hazardous waste	50,000
Inert waste	20,000
Transfer area	
Non-hazardous waste	12,000

Schedule 2 - Waste types

Table S2.1 Permitted waste types and quantities for transfer area

Maximum quantity	12,000 tonnes per annum
Waste code	Description
16	Wastes not otherwise specified in the list
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
17	Construction and Demolition Wastes (including excavated soil from contaminated sites)
17 01	Concrete, bricks, tiles and ceramics
17 08 02	Gypsum based construction materials other than those mentioned in 17 08 01
20	Municipal Wastes (Household waste and similar commercial, industrial and institutional wastes) Including separately collected fractions
20 01	Separately collected fractions (except 15 01)
20 01 08	Biodegradable kitchen and canteen waste
20 01 36	Discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 02	Garden and park wastes (including cemetery waste)
20 02 01	Biodegradable waste

Table S2.2 Permitted waste types and quantities for landfill

Maximum Quantity	Non-Hazardous waste 50,000 tonnes per annum Inert waste 20,000 tonnes per annum
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 07
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

Table S2.2 Permitted waste types and quantities for landfill	
02	Wastes from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and fishing, Food Preparation and Processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	sludges from washing and cleaning
02 01 02	animal-tissue waste
02 01 03	plant-tissue waste
02 01 04	waste plastics (except packaging)
02 01 06	animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 07	wastes from forestry
02 01 09	agrochemical waste other than those mentioned in 02 01 08
02 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
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

Table S2.2 Permitted waste types and quantities for landfill

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	dye stuffs and pigments other than those mentioned in 04 02 16
04 02 20	sludges from on-site effluent treatment other than those mentioned in 04 02 19
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
05	Wastes from Petroleum Refining, Natural Gas Purification and Pyrolytic Treatment of Coal
05 01	wastes from petroleum refining
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 01 17	bitumen
05 06	wastes from the pyrolytic treatment of coal
05 06 04	waste from cooling columns
05 07	wastes from natural gas purification and transportation
05 07 02	wastes containing sulphur
06	Wastes from Inorganic Chemical Processes
06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 16	metallic oxides other than those mentioned in 06 03 15
06 05	sludges from on-site effluent treatment
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
06 09	wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	wastes from the manufacture of inorganic pigments and opacifiers
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 03	carbon black
07	Wastes from Organic Chemical Processes
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
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	wastes 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 S2.2 Permitted waste types and quantities for landfill	
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 Manufacture, Formulation, Supply and Use (MFSU) of Coatings (Paint, Varnishes and Vitreous Enamals), Adhesives, Sealants and Printing Ink
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 waterproofing 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
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

Table S2.2 Permitted waste types and quantities for landfill

10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	wastes from aluminium thermal metallurgy
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 20	flue-gas dust other than those mentioned in 10 03 19
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
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
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 09 99	wastes not otherwise specified
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

Table S2.2 Permitted waste types and quantities for landfill

	07
10 10 10	flue-gas dust other than those mentioned in 10 10 09
10 10 12	other particulates other than those mentioned in 10 10 11
10 10 14	waste binders other than those mentioned in 10 10 13
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
10 11 05	particulates and dust
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12	waste glass other than those mentioned in 10 11 11
10 11 14	glass-polishing and -grinding sludge other than those mentioned in 10 11 13
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	waste preparation mixture before thermal processing
10 12 03	particulates and dust
10 12 05	sludges and filter cakes from gas treatment
10 12 06	discarded moulds
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 12 13	sludge from on-site effluent treatment
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)
10 13 07	sludges and filter cakes from gas treatment
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
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, phosphatising, 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 Plastic
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01	ferrous metal filings and turnings
12 01 02	ferrous metal dust and particles
12 01 03	non-ferrous metal filings and turnings
12 01 04	non-ferrous metal dust and particles
12 01 05	plastics shavings and turnings
12 01 13	welding wastes

Table S2.2 Permitted waste types and quantities for landfill

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 19	plastic
16 01 20	glass
16 02	wastes from electrical and electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 03	off-specification batches and unused products
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 05	gases in pressure containers and discarded chemicals
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
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 land)
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

Table S2.2 Permitted waste types and quantities for landfill

17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	insulation materials and asbestos-containing construction materials
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 08	gypsum-based construction material
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
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 and 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 01 07	chemicals other than those mentioned in 18 01 06
18 01 09	medicines other than those mentioned in 18 01 08
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
18 02 08	medicines other than those mentioned in 18 02 07
19	Wastes from Waste Management Facilities, Off-site Waste Water Treatment Plants and the Preparation of Water Intended for Human Consumption and Water for Industrial Use
19 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
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 03	stabilised/solidified wastes ¹
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

¹ Stabilisation processes change the dangerousness of the constituents in the waste and thus transform hazardous waste into non-hazardous waste. Solidification processes only change the physical state of the waste (e.g. liquid into solid) by using additives without changing the chemical properties of the waste.

Table S2.2 Permitted waste types and quantities for landfill

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 06 99	wastes not otherwise specified
19 07	landfill leachate
19 07 03	landfill leachate other than those mentioned in 19 07 02
19 08	wastes from waste water treatment plants not otherwise specified
19 08 01	screenings
19 08 02	waste from desanding
19 08 05	sludges from treatment of urban waste water
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 01	solid waste from primary filtration and screenings
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 09 06	solutions and sludges from regeneration of ion exchangers
19 10	wastes from shredding of metal-containing wastes
19 10 01	iron and steel waste
19 10 02	non-ferrous waste
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06	other fractions other than those mentioned in 19 10 05
19 11	wastes from oil regeneration
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
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

Table S2.2 Permitted waste types and quantities for landfill

20 01 30	detergents other than those mentioned in 20 01 29
20 01 32	medicines other than those mentioned in 20 01 31
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals
20 01 41	wastes from chimney sweeping
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning
20 03 07	bulky waste

Schedule 3 – Emissions and monitoring

Table S3.1 Leachate level limits

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
LC1 and LC6, R1 R5	2.0 m above cell base	Monthly	Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water LFTGN02
LC2, R3, LC4 and LC5 R2 R4 R5	3.0m above cell base	Monthly	
R1, R2, R4, R5 and R6		Monthly	

R3 - 5.5m.

Table S3.2 Point source emissions to air – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Monitoring Frequency	Monitoring Standard or Method
Flare As shown on drawing 1843.GMP.07	Oxides of Nitrogen	Gas utilisation plant	150 mg/m ³	Annually	Chemiluminescence
	CO	Gas utilisation plant	50 mg/m ³	Annually	Non-dispersive infra red analysis
	Total VOCs	Gas utilisation plant	10 mg/m ³	Annually	Extractive sampling and FID analysis
	Non Methane Volatile Organic Compounds (NMVOC's)	Gas utilisation plant	5 mg/m ³	Annually	Extractive sampling onto sorbent, extraction by CS ₂ , analysis by GC with appropriate detector
Gas Engine	Oxides of Nitrogen	Landfill Gas Flares	650 mg/m ³	Annually	Extractive sampling and Chemiluminescence
	CO	Landfill Gas Flares	1500 mg/m ³	Annually	Extractive sampling and non-dispersive Infra red analysis
	Total VOCs	Landfill Gas Flares	1750 mg/m ³	Annually	Extractive sampling and FID analysis
	Non Methane Volatile Organic Compounds (NMVOC's)	Landfill Gas Flares	150 mg/m ³	Annually	Extractive sampling onto sorbent, extraction by CS ₂ , analysis by GC with appropriate detector

Uncertainty Allowances
25% VOC Engine
10% CO flare.

Table S3.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
P2 As shown on drawing reference	Ammoniacal Nitrogen	Site drainage	1.6mg/l	Spot sample	Monthly	Guidance on Monitoring of Landfill Leachate, Groundwater and
	COD		100mg/l			
	Chloride		250mg/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)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
1742.SWM.06	pH		>6- <9pH units			Surface Water LFTGN02
	Suspended solids		100mg/l			

Table S3.4 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
GW2A, GW3A, GW4, as shown on drawing number 1140.EMP.01 dated 23/07/10	Ammoniacal nitrogen	1.7 mg/l	Spot sample	Quarterly	Monitoring of Landfill Leachate, Groundwater and Surface Water LFTGN02
	Chloride	60 mg/l			
	Nickel	0.15 mg/l			
	Zinc	0.254 mg/l			
	Total xylenes	0.003 mg/l			
	Toluene	0.004 mg/l			

Table S3.5 Landfill gas in external monitoring boreholes - limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit) *	Reference period	Monitoring frequency	Monitoring standard or method
BH1, BH3, BH4, BH5, BH6, BH7, BH10, BH11, BH12, BH13, BH14, BH15, BH16, BH17, BH19, BH23, BH24, BH25	Methane		1.0%		Weekly	Guidance on the management of landfill gas LFTGN03
	Oxygen		No limit set			
BH8	Methane		32.2%		Weekly	
	Carbon dioxide		3.6%			
	Oxygen		No limit set			
BH9	Methane		29.6%		Weekly	
	Carbon dioxide		10.4%			
	Oxygen		No limit set			
BH18A	Methane		3.5%		Weekly	
	Carbon dioxide		10%			
	Oxygen		No limit set			
BH1	Carbon Dioxide		8.8%		Weekly	
BH3	Carbon Dioxide		3.1%		Weekly	

Table S3.5 Landfill gas in external monitoring boreholes - limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit) *	Reference period	Monitoring frequency	Monitoring standard or method
BH4	Carbon Dioxide		5.1%		Weekly	
BH5	Carbon Dioxide		1.5%		Weekly	
BH6	Carbon Dioxide		1.5%		Weekly	
BH7	Carbon Dioxide		10%		Weekly	
BH10	Carbon Dioxide		3.9%		Weekly	
BH11	Carbon Dioxide		6.5%		Weekly	
BH12	Carbon Dioxide		6.6%		Weekly	
BH13	Carbon Dioxide		9.4%		Weekly	
BH14	Carbon Dioxide		3.5%		Weekly	
BH15	Carbon Dioxide		17.6%		Weekly	
BH16	Carbon Dioxide		11.4%		Weekly	
BH17	Carbon Dioxide		12.9%		Weekly	
BH19	Carbon Dioxide		11.2%		Weekly	
BH23	Carbon Dioxide		7.3%		Weekly	
BH24	Carbon Dioxide		1.5%		Weekly	
BH25	Carbon Dioxide		9.9%		Weekly	

* - The limits specified take account of the agreed background concentrations as detailed in section 3 of the Landfill Gas Risk Assessment.

Table S3.6 Landfill gas from capped surfaces - monitoring requirements

Monitoring point Ref. /description	Parameter	Monitoring frequency	Other specifications	Monitoring Standard or method
Permanently capped area	Average Methane flux	Annually	Where a rate of 0.001 mg/m ² /second is exceeded appropriate measures must be taken to reduce the rate.	Flame ionisation detector walkover, flux box or as otherwise agreed in writing by the Agency*
Temporarily capped area	Average Methane flux	Annually	Where a rate of 0.1 mg/m ² /second is exceeded appropriate measures must be taken to reduce the rate.	Flame ionisation detector walkover, flux box or as otherwise agreed in writing by the Agency*

Footnote * If a cap has previously been shown compliant and there have been no significant physical changes in the gas management during the year, a detailed walkover survey with an FID can be used to demonstrate that the surface emissions are under control. If this survey shows no change in the pattern of methane emission, it may be used as the annual survey. The values for flux and total methane emissions measured in the previous year may be reported and a fresh flux box survey is not necessary. If the zone remains stable, the results of a full walkover survey may be accepted as the site report for a period of four years before a further quantitative flux box survey is required.

Table S3.7 Landfill gas – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
In waste monitoring boreholes	Methane Carbon Dioxide Carbon Monoxide Differential Pressure Gas flow rate or suction Oxygen Temperature Meteorological Data	Monthly	Guidance of the management of landfill gas LFTGN03	Where the oxygen level exceeds 5% v/v or where the addition of the carbon monoxide and methane percentages is less than 80%, an assessment of air ingress into the system shall be undertaken. Where the concentration of carbon monoxide exceeds 100ppm further investigation shall be undertaken.
Input to flare	Trace gas analysis Parameters in accordance with LFTGN04 Guidance for monitoring trace components in landfill gas, Environment Agency, September 2004	Annually	In accordance with LFTGN04 Guidance for monitoring trace components in landfill gas, Environment Agency, September 2004	

Table S3.8 Leachate– other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
LC1, LC2, LC3, LC4, LC5, LC6	Alkalinity, pH, ammoniacal nitrogen, calcium, chloride, magnesium, potassium, sodium, sulphate, BOD, COD, TOC, TON	Quarterly	Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water LFTGN02	None
LC1, LC2, LC3, LC4, LC5, LC6	Cadmium, chromium, copper, iron, lead, manganese, nickel, zinc	Annually		None
Representative sample from each cell	List 1 screen Parameters in accordance with Appendix 6, LFTGN01 Hydrogeological Risk Assessments for Landfills, Environment Agency, March 2003	Annually	In accordance with Appendix 6, LFTGN01 Hydrogeological Risk Assessments for Landfills, Environment Agency, March 2003	None
LC1, LC2, LC3, LC4, LC5, LC6	Depth to base of monitoring point	Annually	Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water LFTGN02	None

Table S3.9 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
GW1, GW1.1, GW2A, GW3A, GW4, GW5A, GW6, GW7, GW8	pH, dissolved oxygen, ammoniacal nitrogen, electrical conductivity, chloride	Monthly	Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water LFTGN02	None
GW1, GW1.1, GW2A, GW3A, GW4, GW5A, GW6, GW7, GW8	Calcium, cadmium, chromium, copper, iron, magnesium, manganese, nickel, lead, zinc, COD, sulphate, TON, potassium, sodium, TOC, alkalinity	Quarterly		None
GW1, GW1.1, GW2A, GW3A, GW4, GW5A, GW6, GW7, GW8	List 1 suite	Annually	In accordance with Appendix 6 of Environment Agency guidance document LFTGN01 Hydrogeological Risk assessments for Landfills,	

Table S3.9 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
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Environment Agency,
March 2003

Table S3.10 Particulate matter in ambient air - limits and monitoring requirements

Monitoring Point Ref. /Description	Parameter	Limit (Including Unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Dust 1 – mobile (location determined by operations), Dust 2 – Oak Cottages/Oaks Farm Dust 3- Catteralls/Pinfold Industrial Estates	Gross dust depositional rate	200 mg/m ² /day	Monthly average	Quarterly	Monitoring of particulate matter in ambient air around waste facilities TGD M17

Table S3.11 Point source emissions to sewer

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 Effluent discharge of treated leachate	-	Leachate treatment plant	-	-	-	-

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	Emission or monitoring point/reference		Period begins
Leachate levels As required by condition 3.5.1	LC1, LC2, LC3, LC4, LC5, LC6, R1, R2, R3, R4, R5, R6	Quarterly	17/08/2004
Emissions to air Parameters as required by condition 3.5.1	Flare Gas engine	Annually	17/08/2004 From date of installation
Emissions to water Parameters as required by condition 3.5.1	P2	Quarterly	28/09/2006
Groundwater Parameters as required by condition 3.5.1	GW1, GW1.1, GW2A, GW3A, GW4, GW5A, GW6, GW7, GW8,	Quarterly	17/08/2004
Landfill gas surface emissions Parameters as required by condition 3.5.1	Temporarily and permanently capped areas	Annually	07/03/2007
Particulate matter Parameters as required by condition 3.5.1	Dust 1, Dust 2, Dust 3	Quarterly	17/08/2004
Landfill gas lateral migration Parameters as required by condition 3.5.1	BH1, BH3 to BH17, BH18A, BH19, BH23 to BH25	Monthly	17/08/2004
Other Landfill gas monitoring Parameters as required by condition 3.5.1	In-waste gas monitoring boreholes	Quarterly	07/03/2007
	Inlet to flare	Annually	07/03/2007
Other leachate monitoring Parameters as required by condition 3.5.1 List 1 Screen	LC1, LC2, LC3, LC4, LC5, LC6	Quarterly	17/08/2004
	Representative sample from each cell	Annually	17/08/2004

Table S4.2: Annual production/treatment	
Leachate: Disposed of off site; Disposed of to any onsite effluent treatment plant; Recirculated into the waste mass.	Cubic metres/year
Surface water and/ or groundwater: Disposed of off site; Disposed of to any onsite effluent treatment plant.	Cubic metres/year
Landfill gas: combustion in flares; combustion in gas engines; Other methods of gas utilisation.	Normalised cubic metres/year

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

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 Agency	07/03/2007
Air	Form Air 1 or other reporting format to be agreed in writing with the Agency	07/03/2007
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Agency	07/03/2007
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Agency	07/03/2007
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Agency	07/03/2007
Particulate matter	Form Particulate 1 or other reporting format to be agreed in writing with the Agency	07/03/2007
Waste Return	Waste Return Form	N/A
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Agency	N/A

Schedule 5 - Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution

To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit

To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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

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

Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

"annually" means once every year.

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

"Background concentration" means such concentration of that substance as is present in:

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

"Cell layout drawing" means:

(a) A drawing or drawings of the proposed new cell that illustrate(s) in sufficient detail:

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

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

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

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

"CQA Validation Report" means the final "as built" construction and engineering details of the New Cell or of the Landfill Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

- The results of all testing required by the CQA programme - this must include the records of any failed tests with a written explanation, details of the remedial action taken, referenced to the appropriate secondary testing;
- Plans showing the location of all tests;
- "As-built" plans and sections of the works;
- Copies of the site engineer's daily records;

- Records of any problems or non-compliances and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the New Cell or Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

"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.

"Liquids" means any liquid other than leachate within the engineered landfill containment system.

"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.

"Medicinal product" means any medicine licensed by the Medicines and Healthcare products Regulatory Agency (MHRA) of their predecessors under the Medicines Act 1968, section 130.

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

"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.

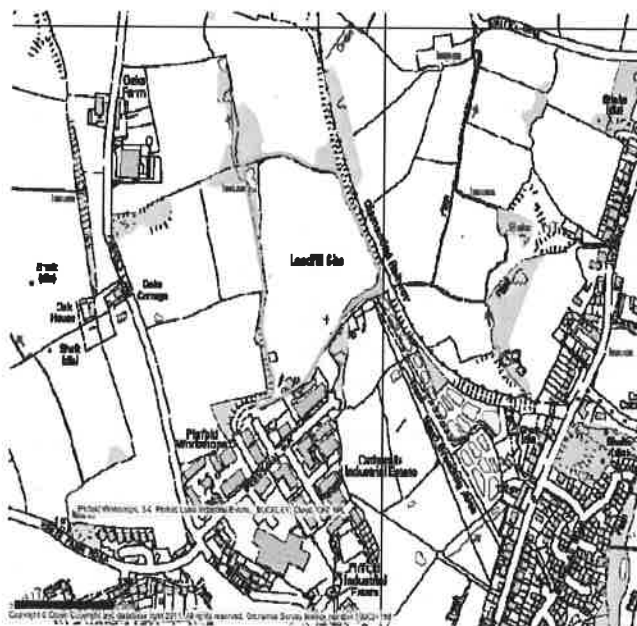
"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"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.

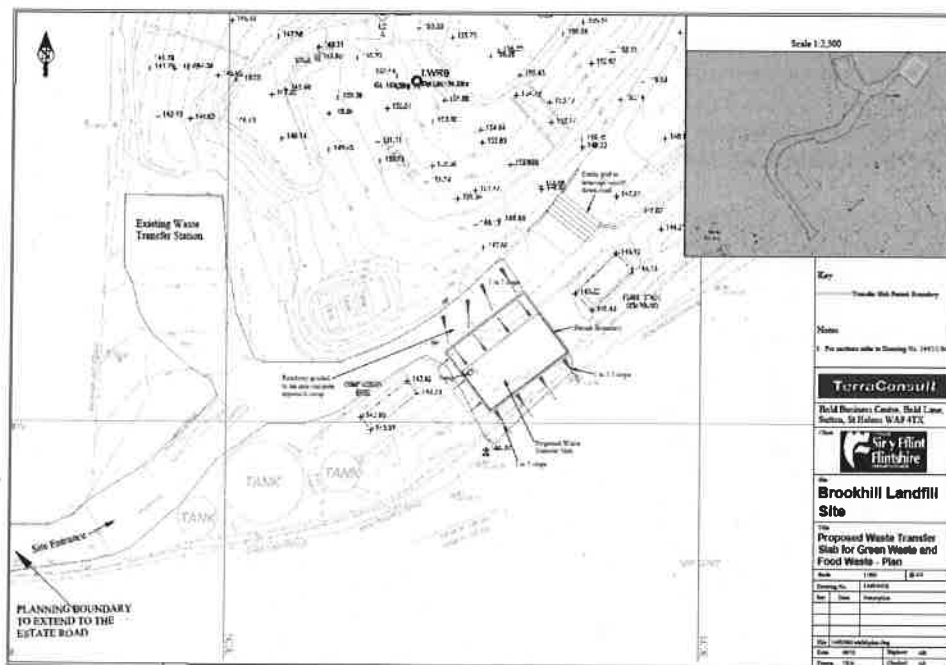
"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

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

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



Transfer permitted area (map2)



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END OF PERMIT

