

Introductory note

This introductory note does not form a part of the Permit

The main features of the Installation are as follows.

This is a Permit to operate a landfill site at Flusco near Newbiggin, Penrith. The Operator of this landfill is Lakeland Waste Management Ltd. The landfill is a waste disposal facility for a range of Non-hazardous wastes, and for Stabilised Non-Reactive Hazardous wastes. Suitable wastes are accepted for disposal at the site and deposited into engineered cells. When the landfill reaches a specified height, waste disposal in that area is complete and an engineered cap is subsequently constructed. Landfill gas generated by the degradation of the waste is managed by the active extraction of the gas and the collected landfill gas is burnt in a flare and/or gas engines. Liquid from the deposited waste is pumped out from a sump at the base of each cell. This leachate is then treated on site and discharged to a United Utilities sewer.

| Status Log of the Permit | | |
|--|------------------------|---|
| Detail | Date | Response Date |
| Application BM5941IH | | Received 09/05/05 |
| Response to request for information (Planning drawings) | Request dated 30/11/05 | Drawings received 09/12/05 |
| Response to request for information (waste types tables) | Request dated 19/12/05 | Response received |
| Response to request for information (Schedule 4 Notice) | Request dated 19/12/05 | Responses received 06/02/06, dated February 2006; 27.02.06, dated February 2006 & 5.05.06 dated 28 April 2006 |
| Letter notifying exclusion of non Directly Associated Activities | Letter dated 21/12/05 | No response received |
| Response to request for information (discharge to sewer plan) | Request dated 28/12/05 | Response received 23/01/06 |
| Response to request for information (financial provision) | Request dated 06/01/06 | Response received 20/01/06 |
| Response to request for information (financial provision) | Request dated 01/02/06 | Response received 10/02/06 |
| Response to request for information (SW monitoring points) | Request dated 09/02/06 | Response received 27/02/06 |
| Response to request for information (odour monitoring points) | Request dated 14/02/06 | Response received 27/02/06 |
| Response to request for information | Request dated 22/03/06 | Response received 28/04/06 |
| Response to request for information (waste types) | Request dated 08/03/06 | Response received 05/04/06 |
| Permit Determined | 25/07/06 | |

| Other PPC Permits relating to this Installation | | |
|--|----------------------|----------------------|
| Operator | Permit Number | Date of Issue |
| Not applicable | | |

| Superseded or Partially Superseded Licences/Authorisations/Consents relating to this Installation | | | |
|--|-------------------------|----------------------|--------------------------------------|
| Holder | Reference Number | Date of Issue | Fully or Partially Superseded |
| Lakeland Waste Management Ltd | EAWML57215 | 12/07/93 | Partially superseded |

End of Introductory Note

Permit

Pollution Prevention and Control (England and Wales) Regulations 2000
Landfill (England and Wales) Regulations 2002

Permit

Permit number

BM5941IH

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) and Regulation 6 of the Landfill (England and Wales) Regulations 2002 (SI 2002 No.1559) hereby authorises

Lakeland Waste Management Ltd (“the Operator”),

Of/ whose Registered Office (or principal place of business) is

Unit 5A

Wavell Drive

Rosehill Estate

Carlisle

CA1 2ST

Company registration number 2728867

to operate an Installation at

Flusco Landfill Site

Newbiggin

Penrith

Cumbria

CA11 0JB

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

Signed

Date

| | |
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| | |
|--|--|

Mike Peacock

Authorised to sign on behalf of the Environment Agency

Strategic Permitting Group

PO Box 12, Richard Fairclough House

Knutsford Road,

Warrington WA4 1HG

Conditions

1. Management

1.1 General Management

- 1.1.1 The Activities shall be managed and operated:
- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the Operator as a result of complaints; and
 - (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the Activities.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this Permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Accidents that may cause pollution

- 1.2.1 The Operator shall:
- (a) maintain and implement an accident management plan;
 - (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
 - (c) make any appropriate changes to the plan identified by a review.

1.3 Finance

- 1.3.1 The financial provision for meeting the obligations under this Permit set out in the Agreement made between the Operator and the Agency dated 25 July 2006 shall be maintained by the Operator throughout the subsistence of this Permit and the Operator shall produce evidence of such provision whenever required by the Agency.
- 1.3.2 The Operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
- (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.3.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

1.4 Energy Efficiency

1.4.1 The Operator shall:

- (a) Review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the Activities; and
- (b) Implement any appropriate measures identified by a review.

1.5 Site Security

1.5.1 Site security measures shall prevent unauthorised access to the Site, as far as practicable.

2. Operations

2.1 Permitted Activities

2.1.1 The Operator is authorised to carry out the activities specified in Schedule 1 Table S1.1 (the "Activities").

2.2 The Site

2.2.1 The Activities shall not extend beyond the Site, being the land shown edged in black on the Site Plan at Schedule 2 to this Permit.

2.3 Operating Techniques

2.3.1 The Activities shall, subject to the Conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Schedule 1 Table S1.2, unless otherwise agreed in writing by the Agency.

2.4 Off-site Conditions

2.4.1 There are no conditions in this Permit to which Regulation 12(12) of the PPC Regulations apply.

2.5 Improvement programme

2.5.1 The Operator shall complete the improvements specified in Schedule 1 Table 1.3 by the date specified in that table unless otherwise agreed in writing by the Agency.

2.5.2 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.

2.6 Pre-Operational Conditions

2.6.1 The operations specified in Schedule 1 Table S1.4 shall not commence until the measures specified in that Table have been completed.

2.7 Engineering

- 2.7.1 No construction of any New Cell shall commence until the Operator has submitted Construction Proposals and the Agency has confirmed that it is satisfied with the Construction Proposals.
- 2.7.2 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 Agency.
- 2.7.3 No disposal of waste shall take place in a New Cell until the Operator has submitted a CQA Validation Report and the Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.7.4 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 Agency has confirmed that it is satisfied with the Construction Proposals.
- 2.7.5 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 Agency.
- 2.7.6 The Operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant Landfill Infrastructure.
- 2.7.7 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.7.4 and 2.7.5 do not apply and the relevant Landfill Infrastructure may be constructed, provided that the Construction Proposals are submitted to the Agency as soon as practicable.
- 2.7.8 For the purposes of conditions 2.7.1, 2.7.3 and 2.7.4, the Agency shall be deemed to be satisfied where it has not, within the period of 4 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.

2.8 Waste Acceptance

- 2.8.1 Wastes shall only be accepted for disposal if:
- (a) they are listed in Schedule 3, and
 - (b) they are non-hazardous waste or stable, non-reactive hazardous wastes, or high sulphate and gypsum bearing wastes, and
 - (c) from 16th July 2006, they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm), and
 - (d) from 16th July 2006 they are not shredded used tyres], and

- (e) from 30th October 2007, they are not liquid waste (including waste waters but excluding sludge), and
 - (f) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown, and
 - (g) all the relevant waste acceptance procedures set out in Schedule 1 of the Landfill Regulations 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) from 30th October 2007, 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.
- 2.8.2 Stable non-reactive hazardous waste shall not be deposited in cells used or intended to be used for the disposal of biodegradable non-hazardous waste. Stable non-reactive hazardous waste and non-hazardous waste which is landfilled in the same cell must meet the relevant waste acceptance criteria.
- 2.8.3 Gypsum and other high sulphate bearing waste shall only be disposed of in cells where no biodegradable waste is accepted. Wastes disposed of in a cell with gypsum and other high sulphate bearing wastes must meet the relevant waste acceptance criteria.
- 2.8.4 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.
- 2.8.5 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.
- 2.8.6 The Operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.8.7 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing ESID4.
- 2.8.8 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in Schedule 1 Table S1.5.
- 2.8.9 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or recovery and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the Operator as commercially confidential shall be clearly identified in the record.

- 2.8.10 The Operator shall maintain and implement a system to record the disposal location of any hazardous waste.

2.9 Leachate Levels

- 2.9.1 The limits for the level of leachate listed in Table S4.1 of Schedule 4 shall not be exceeded.

2.10 Closure, aftercare and decommissioning

- 2.10.1 The Operator shall maintain and operate the Activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.
- 2.10.2 The Operator shall maintain a Site Closure Plan which demonstrates how the Activities can be decommissioned to avoid any pollution risk and return the site of operation to a satisfactory state.
- 2.10.3 The Operator shall carry out and record a review of the Site Closure Plan at least every 4 years.
- 2.10.4 The Site Closure Plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the Activities or part thereof.

2.11 Site Protection and Monitoring Programme

- 2.11.1 The Operator shall, within 2 months of the issue of this Permit, submit a Site Protection and Monitoring Programme.
- 2.11.2 The Operator shall implement and maintain the Site Protection and Monitoring Programme in relation to all areas which will not comprise permanent deposits of waste and shall carry out and record a review of it at least every 4 years commencing from the date the Site Protection and Monitoring Programme was received.

3. Emissions and Monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in Tables S4.2, S4.3 and S4.4 of Schedule 4.
- 3.1.2 The limits given in that Schedule shall not be exceeded, save that compliance with an emission limit shall include incorporation of the uncertainty allowance stated in Agency guidance LFTGN 05 and LFTGN 08.

3.2 Emissions to groundwater

- 3.2.1 There shall be no emission from the Activities into groundwater of any substance in List I (as defined by the Groundwater Regulations) contrary to those Regulations.
- 3.2.2 There shall be no emission from the Activities into groundwater of any substance in List II (as defined in the Groundwater Regulations) so as to cause pollution (as defined in those Regulations).

- 3.2.3 The trigger levels for emissions into groundwater for the parameter(s) and monitoring point(s) set out in Table S4.5 of Schedule 4 shall not be exceeded.
- 3.2.4 The Operator shall submit to the Agency a review of the Hydrogeological Risk Assessment:
- (a) between 9 and 6 months prior to the fourth anniversary of the granting of the Permit, and
 - (b) between 9 and 6 months prior to every subsequent 4 years after the fourth anniversary of the granting of the Permit.

3.3 Fugitive emissions of substances

- 3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.3.2 Litter or mud arising from the Activities shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been used to prevent or where that is not practicable to minimise, the litter and mud.
- 3.3.3 Litter or mud arising from the Activities shall be cleared from affected areas outside the Site as soon as practicable.
- 3.3.4 All liquids, 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.
- 3.3.5 The measured values from the monitoring specified in Tables S4.6, S4.7 of Schedule 4 shall not exceed the limits for the parameter(s) at the monitoring point(s) listed in that Schedule.

3.4 Odour

- 3.4.1 Emissions from the Activities shall be free from odour at levels likely to cause annoyance outside the Site, as perceived by an Authorised Officer of the Agency, unless the Operator has used appropriate measures to prevent or where that is not practicable to minimise the odour.

3.5 Noise and Vibration

- 3.5.1 Emissions from the Activities shall be free from noise and vibration at levels likely to cause annoyance outside the Site, as perceived by an Authorised Officer of the Agency, unless the Operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

3.6 Monitoring

- 3.6.1 The Operator shall, unless otherwise agreed in writing by the Agency, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in the following tables in Schedule 4 to this Permit:

- (a) Leachate levels specified in Table S4.1;
 - (b) Point Source emissions specified in Tables S4.2, S4.3 and S4.4;
 - (c) Groundwater specified in Tables S4.5 and S4.11;
 - (d) Landfill Gas specified in Tables S4.6, S4.7, S4.8; and
 - (e) Surface water specified in Tables S4.3 and S4.10.
- 3.6.2 The Operator shall maintain records of all monitoring required by this Permit including records of the taking and analysis of samples instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.6.3 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
 - (c) 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.
- 3.6.4 Within 6 months of the issue of this Permit (unless otherwise agreed in writing by the Agency) the site reference data identified in the Site Protection and Monitoring Programme shall be collected and submitted to the Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this Permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Agency, for at least 6 years from the date when the records were made, or in the case of the following records until Permit surrender:
 - (i) the results of groundwater monitoring;
 - (ii) the Site Protection and Monitoring Programme;
 - (iii) ambient air monitoring for landfill gas and particulate matter;
 - (iv) sub-surface landfill gas monitoring;
 - (v) leachate levels, quality and quantities;
 - (vi) landfill gas generation and collection;
 - (vii) waste types and quantities;
 - (viii) topographical surveys;

(ix) the location of hazardous waste deposits; and

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

4.2 Reporting

4.2.1 A report or reports on the performance of the Activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the Agency) each year. The report(s) shall include as a minimum:

- (a) the results of the monitoring and assessment carried out in accordance with this Permit including a review of that data against the relevant assumptions, parameters and results in the risk assessments submitted with the Application;
- (b) where the Operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
- (c) the energy consumed at the Site, reported in the format set out in Table S5.3;
- (d) details of any contamination or decontamination of the Site which has occurred;
- (e) the topographical surveys required by condition 3.6.3 other than those submitted as part of a CQA validation report;
- (f) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
- (g) 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;
- (h) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
- (i) the compliance testing undertaken in the period;

4.2.2 Within 28 days of the end of the reporting period the Operator shall, unless otherwise agreed in writing by the 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 Table S5.1 to Schedule 5;
- (b) for the reporting periods specified in Table S5.1 to Schedule 5 and using the forms specified in Table S5.4 to Schedule 5; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those Tables.

4.2.3 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Agency within one month of the end of the quarter and shall be in the format required by the Agency.

4.2.4 The Operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

- 4.2.5 The results of reviews and any changes made to the Site Protection and Monitoring Programme shall be reported to the Agency, within 1 month of the review or change.

4.3 Notifications

- 4.3.1 The Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the Permit;
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in Schedule 6 to this Permit within the time period specified in that Schedule.
- 4.3.3. Prior written notification shall be given to the Agency of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the permitted activities;
 - (b) as soon as practicable prior to the cessation of the landfill disposal activities, for a period likely to exceed 1 month; and
 - (c) at least 7 days prior to the resumption of the landfill disposal activities after a cessation notified under (b) above.
- 4.3.4 The Agency shall be given at least 14 days notice before implementing any part of the Site Closure Plan in respect of any activities other than the disposal of waste in the landfill.
- 4.3.5 Where the 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 Agency when the relevant monitoring is to take place. The Operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 The Agency shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.
- 4.3.7 The Agency shall be provided, within 14 days of the Operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Agency), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.
- 4.3.8 The Agency shall be notified within 14 days of the Operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.
- 4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- (a) any change in the Operator's trading name, registered name or registered office address;
 - (b) any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary); and

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

4.4 Interpretation

- 4.4.1 In this Permit the expressions listed in Schedule 7 shall have the meaning given in that Schedule.

Schedule 1 - Operations

| Table S1.1 Activities | | |
|--|---|---|
| Activity listed in Schedule 1 of the PPC Regulations | Description of specified activity | Limits of specified activity |
| Section 5.2 Part A(1)(a) The disposal of waste in a landfill. | Landfilling of non-hazardous waste (landfill classification under the Landfill Regulations 2002) | Receipt, handling, and disposal of wastes, consisting of the types and quantities specified in condition 2.8, as an integral part of landfilling. |
| Section 5.3 Part A(1)(c)(i) Biological treatment | Storage and treatment of leachate in a facility with a capacity of >50 t/day, pre-disposal | Leachate arising from the landfill. |
| Associated Activity | | |
| Landfill gas management | Utilisation of landfill gas for energy recovery in a facility <3MW rated thermal input or flaring | Landfill gas arising from the landfill. |
| Screening of Waste | Screening of waste prior to disposal or for use for capping and restoration | Inert Waste only as identified in Schedule 3 |
| Leachate discharge to foul sewer | Discharge of treated leachate from the landfill | From the leachate treatment plant to point of entry to sewer |
| Water discharges to controlled waters | Discharge of site drainage from the landfill. | From surface water management system to point of entry to controlled waters. |

| Table S1.2 Operating Techniques | | |
|---|---|----------------------|
| Description | Parts | Date Received |
| Application | The response to questions 1.2, 2.1 and 2.2, 2.3, 2.4, and 2.5 in part B of the Application form but excluding the responses to the following questions: 2.1.5 Tables PW1, PW2, PW3 and PW4 2.1.6 2.2.9 – minimum thickness (mm) 2.2.13 Table ESID 9 Table HRA 7 Drawing ESID 11 All parts of Application referring to any waste transfer activities | 9 May 2005 |
| Responses to Schedule 4 Notice Part 1 dated February 2006 | Response to Questions 1, 3, 6, 7, 9, 10, 11, 12, 13, 14, 16, 17 and 18 | 9 February 2006 |
| Response to Schedule 4 Notice, Part 2 dated February 2006 | Responses to Questions 19 & 20 | 27 February 2006 |
| Response to Schedule 4 Notice, letter dated 28 April 2006 | Responses to Questions 5, 8 and 15 | 5 May 2006 |
| Response to email dated 9 February 2006 | Drawing ESID11 (Revision A) | 27 February 2006 |
| Response to email dated 22 March 2006 | Responses to Questions 5, 8 and 15 of the Schedule 4 Notice | 5 May 2006 |

| Table S1.3 Improvement Programme Requirements | | |
|--|--|-----------------|
| Reference | Requirement | Date |
| 1 | The Operator shall submit to the Agency details of the gas engines and enclosed high temperature gas flare installed at the site. The details shall include location, construction specification and a method statement for operation, monitoring and maintenance. The Operator shall undertake any measures notified in writing by the Agency by the date indicated in that notification. | 25 October 2006 |
| 2 | The Operator shall submit a report for approval that contains a review of the atmospheric dispersion modelling. This review shall be based upon data obtained in accordance with Table S4.8 and shall consider both short and long term emissions from the gas utilisation plant and flare and from the landfill surface from a number of locations representative of the working areas of the landfill. Consideration shall be given to the EU Air Quality Limit Values that apply everywhere beyond the site boundary from 2006 for CO and 2010 for NO ² . The Operator shall undertake any measures notified in writing by the Agency by the date specified in that notification. | 25 July 2007 |

| Table S1.3 Improvement Programme Requirements | | |
|--|---|---|
| Reference | Requirement | Date |
| 3 | <p>The Operator shall submit to the Agency for approval, a report assessing the adequacy of the existing perimeter landfill gas monitoring borehole network, and outlining proposals for the installation of additional perimeter landfill gas boreholes where required. This report shall take into account Agency guidance document "Guidance on the Management of Landfill Gas" and shall include a detailed plan of suitable scale indicating existing and proposed monitoring points.</p> <p>The Operator shall undertake any measures notified in writing by the Agency by the date specified in that notification.</p> | 25 October 2006 |
| 4 | <p>Within regard to Improvement Condition 3, trigger levels for the additional boreholes shall be agreed in writing with the Agency following monitoring and analysis for a 12 month period.</p> <p>The Operator shall undertake any measures notified in writing by the Agency by the date specified in that notification.</p> | 15 months from the date of Installation of boreholes required by Improvement Condition 3. |
| 5 | <p>The Operator shall submit to the Agency for approval, a report outlining proposals for the installation of further groundwater monitoring boreholes to enable monitoring in accordance with Agency guidance on the Monitoring of Groundwater, Surface Water and Leachate. The report shall include the provision of boreholes upgradient of Phase 2 of the Installation and downgradient of the installation as required.</p> <p>The Operator shall undertake any measures notified in writing by the Agency by the date specified in that notification.</p> | 25 October 2006 |
| 6 | <p>With regard to Improvement Condition 5, control and trigger levels for any additional downgradient boreholes shall be agreed in writing with the Agency following monitoring and analysis for a 12 month period.</p> <p>The Operator shall undertake any measures notified in writing by the Agency by the date specified in that notification.</p> | 15 months from the date of Installation of boreholes required by Improvement Condition 5. |
| 7 | <p>The Operator shall submit to the Agency for approval proposed noise reduction measures as referred to in Appendix 2 Section 1.8 of the Application.</p> <p>The Operator shall undertake any measures notified in writing by the Agency by the date specified in that notification.</p> | 25 January 2007 |
| 8 | <p>The Operator shall review ground water monitoring data collected in accordance with Table S4.5 and submit to the Agency for approval revised control and trigger levels for cadmium and naphthalene at borehole GW04.</p> | 25 October 2007 |
| 9 | <p>The Operator shall submit to the Agency a revised Drawing ESID 2 indicating the location of monitoring points EMP1, EMP 2 and EMP 5.</p> | 25 October 2006 |
| 10 | <p>The Operator shall submit to the Agency procedures to ensure that wastes accepted at the installation meet the relevant European Waste Acceptance Criteria for non-hazardous landfill sites.</p> <p>The Operator shall undertake any measures notified in writing by the Agency by the date specified in that notification</p> | 25 October 2006 |

| Table S1.4 Pre-operational Measures for Future Development | | | | | | | | | | | | |
|--|-----------------------------------|--|------------|--------------------|------|-------|--------|-----------|------|---------|------|---------|
| Reference | Operation | Pre-operational Measures | | | | | | | | | | |
| 1 | Leachate drainage basal layer | <ul style="list-style-type: none"> Minimum thickness 500mm unless otherwise agreed in writing with the Agency Materials: Stone drainage aggregates Size distribution: <table border="1"> <thead> <tr> <th>Sieve Size</th> <th>Percentage Passing</th> </tr> </thead> <tbody> <tr> <td>63mm</td> <td>100 %</td> </tr> <tr> <td>37.5mm</td> <td>85 – 100%</td> </tr> <tr> <td>20mm</td> <td>0 – 25%</td> </tr> <tr> <td>10mm</td> <td>0 – 5 %</td> </tr> </tbody> </table> The required specification for the 10% Fines Value (TVS) of leachate drainage stone in proposed cells shall be calculated for the soaked condition in accordance with British Standard BS812. In any event the TFV shall be a minimum of 50KN. The specification is to be submitted as part of the Construction Quality Assurance Plan for the construction of each cell All testing must be in accordance with BS812. The minimum fall must be 1 in 50. | Sieve Size | Percentage Passing | 63mm | 100 % | 37.5mm | 85 – 100% | 20mm | 0 – 25% | 10mm | 0 – 5 % |
| Sieve Size | Percentage Passing | | | | | | | | | | | |
| 63mm | 100 % | | | | | | | | | | | |
| 37.5mm | 85 – 100% | | | | | | | | | | | |
| 20mm | 0 – 25% | | | | | | | | | | | |
| 10mm | 0 – 5 % | | | | | | | | | | | |
| 2 | Deposit of inert waste in cell 15 | Six months prior to the engineering of cell 15 the Operator shall submit for approval detailed design proposals for the construction of a geological barrier. This barrier shall have a permeability of at least equivalent to $\leq 1.0 \times 10^{-7}$ m/s over a thickness of 1m unless otherwise agreed in writing with the Agency on the basis of suitable risk assessment. | | | | | | | | | | |
| 3 | Management of Groundwater | Three months prior to the engineering of any new cell the Operator shall submit for approval, a report including the results of investigations into the need for groundwater control in the base of that cell or phase. The report shall also contain proposals for any required underdrainage system, which once approved shall be installed as part of the engineering of that cell or phase. | | | | | | | | | | |

| Table S1.5 Annual Waste Input Limits | |
|--|--------------------|
| Category | Limit Tonnes/ Year |
| Non-hazardous Waste | 66,000 |
| Inert Waste | 25,000 |
| Inert waste for restoration of closed areas | 25,000 |
| Stable, non-reactive hazardous waste; and gypsum & high sulphate bearing waste | 10,000 total |

Table S1.6 Appropriate Measures for Litter

| Measure | Dates |
|--|--------------|
| Implementation of the procedure outlined in Appendix 2 Section 1.5 of the Application "Nuisance and Health Management Plan | May 2005 |

Table S1.7 Appropriate Measures for Mud

| Measure | Dates |
|--|--------------|
| Implementation of the procedure outlined in Appendix 2 Section 1.4 of the Application "Nuisance and Health Management Plan | May 2005 |

Table S1.8 Appropriate Measures for Odour

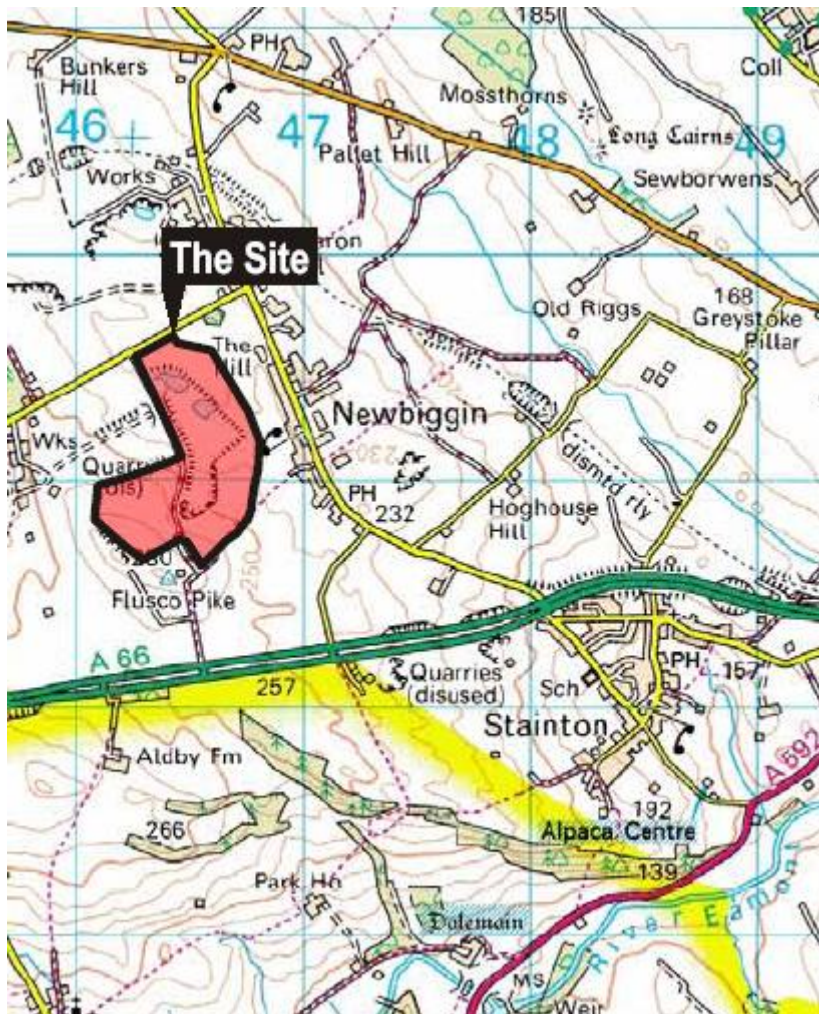
| Measure | Dates |
|---|--------------|
| Implementation of the procedure outlined in Appendix 2 Section 1.3 of the Application "Nuisance and Health Management Plan. | May 2005 |

Table S1.9 Appropriate Measures for Noise

| Measure | Dates |
|---|--------------|
| See Table S1.3 Improvement Plan Requirements. | |

Schedule 2 - Site Plan

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Schedule 3 - List of Permitted Wastes

Permitted Non-Hazardous Wastes for Disposal

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

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 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 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
- 03 03 11 sludges from on-site effluent treatment other than those mentioned in 03 03 10

04 01 wastes from the leather and fur industry

- 04 01 01 fleshings and lime split wastes
- 04 01 02 liming waste
- 04 01 05 tanning liquor free of 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 17 dyestuffs and pigments other than those mentioned in 04 02 16
- 04 02 20 sludges from on-site effluent treatment other than those mentioned in 04 02 19
- 04 02 21 wastes from unprocessed textile fibres
- 04 02 22 wastes from processed textile fibres

05 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 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 09 wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes

- 06 09 02 phosphorous slag
- 06 09 04 calcium-based reaction wastes other than those mentioned in 06 09 03

06 11 wastes from the manufacture of inorganic pigments and 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 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

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 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 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 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 waste 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 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 10 wastes from casting of non-ferrous pieces

10 10 03 furnace slag
10 10 06 casting cores and moulds which have not undergone pouring, other than those

mentioned in 10 10 05
10 10 08 casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 10 flue-gas dust other than those mentioned in 10 10 09
10 10 12 other particulates other than those mentioned in 10 10 11
10 10 14 waste binders other than those mentioned in 10 10 13
10 10 16 waste crack-indicating agent other than those mentioned in 10 10 15

10 11 wastes from manufacture of glass and glass products

10 11 03 waste glass-based fibrous materials
10 11 05 particulates and dust
10 11 10 waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12 waste glass other than those mentioned in 10 11 11
10 11 14 glass-polishing and –grinding sludge other than those mentioned in 10 11 13
10 11 16 solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 20 solid wastes from on-site effluent treatment other than those mentioned in 10 11 19

10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products

10 12 01 waste preparation mixture before thermal processing
10 12 03 particulates and dust
10 12 05 sludges and filter cakes from gas treatment
10 12 06 discarded moulds
10 12 08 waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10 solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12 wastes from glazing other than those mentioned in 10 12 11
10 12 13 sludge from on-site effluent treatment

10 13 wastes from manufacture of cement, lime and plaster and articles and products made from them

10 13 01 waste preparation mixture before thermal processing
10 13 04 wastes from calcination and hydration of lime
10 13 06 particulates and dust (except 10 13 12 and 10 13 13)
10 13 07 sludges and filter cakes from gas treatment
10 13 10 wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11 wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
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 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 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics

12 01 01 ferrous metal filings and turnings
12 01 02 ferrous metal dust and particles
12 01 03 non-ferrous metal filings and turnings
12 01 04 non-ferrous metal dust and particles
12 01 05 plastics shavings and turnings
12 01 13 welding wastes
12 01 15 machining sludges other than those mentioned in 12 01 14
12 01 17 waste blasting material other than those mentioned in 12 01 16
12 01 21 spent grinding bodies and grinding materials other than those mentioned in 12 01 20

15 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 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)

16 01 03 end-of-life tyres
16 01 04 end-of-life vehicles
16 01 12 brake pads other than those mentioned in 16 01 11
16 01 16 tanks for liquefied gas
16 01 17 ferrous metal
16 01 18 non-ferrous metal
16 01 19 plastic
16 01 20 glass
16 01 22 components not otherwise specified

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 06 batteries and accumulators

16 06 04 alkaline batteries (except 16 06 03)
16 06 05 other batteries and accumulators

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 08 04 spent fluid catalytic cracking catalysts (except 16 08 07)

16 11 waste linings and refractories

16 11 02 carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04 other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06 linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05

17 01 concrete, bricks, tiles and ceramics

17 01 01 concrete
17 01 02 bricks
17 01 03 tiles and ceramics
17 01 07 mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06

17 02 wood, glass and plastic

17 02 01 wood
17 02 02 glass
17 02 03 plastic

17 03 bituminous mixtures, coal tar and tarred products

17 03 02 bituminous mixtures other than those mentioned in 17 03 01

17 04 metals (including their alloys)

- 17 04 01 copper, bronze, brass
- 17 04 02 aluminium
- 17 04 03 lead
- 17 04 04 zinc
- 17 04 05 iron and steel
- 17 04 06 tin
- 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 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)

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

- 19 03 05 stabilised wastes other than those mentioned in 19 03 04
- 19 03 07 solidified wastes other than those mentioned in 19 03 06

19 04 vitrified waste and wastes from vitrification

- 19 04 01 vitrified waste

19 05 wastes from aerobic treatment of solid wastes

- 19 05 01 non-composted fraction of municipal and similar wastes
- 19 05 02 non-composted fraction of animal and vegetable waste
- 19 05 03 off-specification compost

19 06 wastes from anaerobic treatment of waste

- 19 06 04 digestate from anaerobic treatment of municipal waste
- 19 06 06 digestate from anaerobic treatment of animal and vegetable waste

19 08 wastes from waste water treatment plants not otherwise specified

- 19 08 01 screenings
- 19 08 02 waste from desanding
- 19 08 05 sludges from treatment of urban waste water
- 19 08 09 grease and oil mixture from oil/water separation containing 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 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 01 separately collected fractions (except 15 01)

- 20 01 01 paper and cardboard
- 20 01 02 glass
- 20 01 08 biodegradable kitchen and canteen waste
- 20 01 10 clothes
- 20 01 11 textiles
- 20 01 25 edible oil and fat
- 20 01 28 paint, inks, adhesives and resins other than those mentioned in 20 01 27
- 20 01 30 detergents other than those mentioned in 20 01 29
- 20 01 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

Permitted Inert Wastes for Disposal

17 01 concrete, bricks, tiles and ceramics

17 01 01 concrete
17 01 02 bricks
17 01 03 tiles and ceramics

17 05 soil (including excavated soil from contaminated sites), stones and dredging spoil

17 05 04 soils and stones other than those mentioned in 17 05 03*

20 02 garden and park wastes (including cemetery waste)

20 02 02 soil and stones

* Excluding topsoil, peat and soil and stones from contaminated sites

Permitted Wastes for Capping and Restoration Purposes

01 04 wastes from physical and chemical processing of non-metalliferous minerals

01 04 09 waste sand and clays

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

19 12 wastes from the mechanical treatment of waste (for examples sorting, crushing, compacting, palletising) not otherwise specified

19 12 09 minerals (for example sand, stones)

20 02 garden and park wastes (including cemetery waste)

20 02 02 soil and stones

Permitted Stable Non-Reactive Hazardous Waste for Disposal

19 03 stabilised/solidified wastes

19 03 05 stabilised wastes other than those mentioned in 19 03 04
19 03 06 wastes marked as hazardous, solidified
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

Permitted High Sulphate and Gypsum Bearing Wastes for Disposal

01 01 wastes from mineral excavation

01 01 02 wastes from mineral non-metalliferous excavation

01 04 wastes from physical and chemical processing of non-metalliferous minerals

01 04 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

10 13 wastes from manufacture of cement, lime, plaster and articles and products made from them

10 13 01 waste preparation mixture before thermal processing
10 13 06 particulates and dust (except 10 13 12 and 10 13 13)
10 13 07 sludges and filter cakes from gas treatment

17 06 insulation materials and asbestos containing construction materials

17 08 02 gypsum-based construction materials other than those mentioned in 17 08 01

Schedule 4 – Emissions and Monitoring

Table S4.1 Leachate level limits and monitoring requirements

| Monitoring point reference/ Description | Limit | Monitoring frequency | Monitoring method |
|--|-------|---|---|
| All monitoring points in all operational and cells which have not been capped and restored | 1m | Daily | Electronic dip tape or as agreed in writing with the Agency |
| All monitoring points in cells which have been capped and restored | 1m | Weekly unless otherwise agreed in writing with the Agency | Electronic dip tape or as agreed in writing with the Agency |

Table S4.2 Point Source Emissions to Air – emission limits and monitoring requirements

| Emission point Ref. and Location | Parameter | Source | Limit mg/m ³ | Reference Period | Monitoring Frequency | Monitoring Standard or Method |
|--|--|-----------------------|-------------------------|------------------|----------------------|---------------------------------------|
| Landfill Gas Engine as located on Drawing ESID6A | Nitrogen Oxides (NO _x) | Gas utilisation plant | 650 | Hourly mean | Annually | ISO 10849: 1996 |
| | Carbon Monoxide (CO) | | 1500 | | | ISO 12039:2001 |
| | Total Volatile Organic Compounds (VOC's) | | 1750 | | | BS EN 12619:1999 or BS EN 13526: 2002 |
| | Non-methane Volatile Organic Compounds (NMVOC's) | | 150 | | | BS EN 13649 |
| Landfill Gas Flare as located on Drawing ESID6A | Nitrogen Oxides (NO _x) | Gas flare | 150 | Hourly mean | Annually | ISO 10849 |
| | Carbon Monoxide (CO) | | 100 | | | ISO 12039 |
| | Total Volatile Organic Compounds (VOC's) | | 10 | | | BS EN 12619 or BS EN 13526 |
| | Non-methane Volatile Organic Compounds (NMVOC's) | | 5 | | | BS EN 13649 |

Table S4.3 Point Source Emissions to Water (Other than Sewer) – emission limits and monitoring requirements

| Emission point Ref. & Location | Parameter | Source | Limit (incl unit) | Monitoring Frequency | Monitoring Standard or Method |
|--------------------------------|---------------------|---------|-------------------|----------------------|--|
| SW1, SW2 | pH | Site SW | >6 and <9 | Monthly | As outlined in Appendix 3 of the Application |
| | Ammoniacal Nitrogen | | 1mg/l | Monthly | |
| | Chloride | | 125 mg/l | Monthly | |
| | Oil and grease | | Non visible | Monthly | |
| | BOD | | 5 mg/l | Annually | |

Table S4.4 Point Source Emissions to Sewer, Effluent Treatment Plant or by Tankering or other transfer Off-Site– emission limits and monitoring requirements

| Emission point Ref. & Location | Parameter | Limit | Units | Monitoring Frequency |
|---|---|------------------|-------|---|
| Emission point to sewer as indicated on Drawing No. 17/42/141/2 dated 19/9/2005 | pH | 6 to 10 | | In accordance with the requirements of the Consent to Discharge issued by the sewerage undertaker |
| | Temperature | ≤43.3 | °C | |
| | Sulphide | ≤1 | mg/l | |
| | Separable grease and oil | ≤100 | mg/l | |
| | Sulphates as SO ₄ | ≤1000 | mg/l | |
| | Toxic metals | ≤10 | mg/l | |
| | Cyanides and cyanogens compounds | ≤1 | mg/l | |
| | Chemical Oxygen Demand (COD) Load | ≤200 in 24 hours | kg | |
| | Chemical Oxygen Demand | ≤1500 | mg/l | |
| | Methane | ≤0.14 | mg/l | |
| | Cadmium | ≤20 | µg/l | |
| | Mercury | ≤1 | µg/l | |
| | Ammonia | ≤250 | mg/l | |
| | The maximum amount of trade effluent discharged to sewer in any one day shall not exceed 87m ³ at a rate not exceeding 1 l/s unless in agreement with the sewerage undertaker. | | | |

Table S4.5 Trigger levels for emissions into groundwater and monitoring requirements

| Monitoring point reference | Parameter | Limit (mg/l) | Monitoring frequency | Monitoring standard or method |
|--|---------------------|--|----------------------|--|
| BH4, GW17, GW18, GW19A, GW20, GW21, GW22 All future GW boreholes installed following Permit issue | Chloride | 250 | Monthly | As outlined in Appendix 5 of the Application or as agreed in writing with the Agency |
| | Ammoniacal nitrogen | >2 on 3 successive occasions | | |
| | Nickel | 0.02 | | |
| | Phenols | 0.0005 | | |
| | Cadmium | >0.0004 on 2 successive occasions for 15 months. Thereafter in accordance with Improvement Condition 9 | | |
| | Naphthalene | 0.0005 for 15 months. Thereafter in accordance with Improvement Condition 9 | | |

Table S4.6 Landfill gas in external monitoring boreholes – limits and monitoring requirements

| Monitoring point Ref. /description | Parameter | Limit (including units) | Monitoring frequency | Monitoring standard or method |
|--|--------------------------------|---|----------------------|--|
| Landfill gas monitoring boreholes 1 to 16 identified on Drawing ESID 8 | Methane Carbon Dioxide | 1%v/v as outlined in Table GMP3 of LGMP in the Application | Monthly | As outlined in Appendix 6 of the Application or as otherwise agreed in writing with the Agency |
| | Oxygen Atmospheric pressure | no limit no limit | | |
| All future Landfill Gas boreholes installed following Permit issue | Methane Carbon Dioxide | As agreed in accordance with Improvement Condition 4 | Monthly | |
| | Oxygen Atmospheric pressure | no limit no limit | | |

Table S4.7 Landfill gas from capped surfaces - limits and monitoring requirements

| Monitoring point Ref. /description | Parameter | Limit (Including unit) | Monitoring frequency | Monitoring Standard or method |
|------------------------------------|--------------|---------------------------------|----------------------|---|
| Any zone with a permanent cap | Methane flux | 0.001 mg/m ² /second | Annually | As outlined in Agency Landfill Technical Guidance Note 07 "Guidance on monitoring landfill gas surface emissions" or as otherwise agreed in writing with the Agency |
| Any zone with a temporary cap | Methane flux | 0.1 mg/m ² /second | Annually | |

Table S4.8 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 |
|---|--|---|--|--|
| All points identified in Section 2.1.2 of the Landfill Gas management Plan submitted in the Application | Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Temperature Hydrogen Sulphide | Monthly Monthly Monthly Monthly Monthly Monthly Quarterly | In accordance with Appendix 6 of the Application or as otherwise agreed in writing with the Agency | Should the Carbon Monoxide level exceed 100ppm or the temperature exceed 80°C, an investigation into the presence of a landfill fire shall be carried out and appropriate remedial action undertaken. The Agency shall be notified of any such exceedence within 24 hours. |
| Manifold prior to entry to Gas Utilisation Plant or flare | Trace gas analysis | Within 6 months of the issue of this Permit and annually thereafter | | As outlined in Agency document "Guidance for Monitoring Trace Components in Landfill Gas" |
| Landfill Gas Utilisation Plant | Emissions monitoring | Within 6 months of the issue of this Permit and annually thereafter | | |
| Landfill Gas Flare | Emission monitoring | Within 6 months of the issue of this Permit and annually thereafter | | |
| Any monitoring points in the gas extraction system | Oxygen Methane Carbon Dioxide | During field balancing and at least monthly | | Where the Oxygen level exceeds 2% or where the addition of the Carbon Dioxide and Methane percentages is less than 80% from completed cells, an assessment of air ingress into the system and appropriate remedial action shall be undertaken |

Table S4.9 Leachate– other monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|--|---|----------------------|--|----------------------|
| LMC1, LMC2, LMC3, LMC4, LMC5 One leachate monitoring point per cell in all future cells | pH, Temperature, Electrical conductivity, Ammoniacal Nitrogen, Chloride, Sulphate, Alkalinity, COD, BOD, Nitrate, Nitrite, TOC, Sodium, Potassium, Calcium, Magnesium | Quarterly | As outlined in Appendix 4 of the Application or as otherwise agreed in writing with the Agency | |
| LMC1, LMC2, LMC3, LMC4, LMC5 One leachate monitoring point per cell in all future cells | Iron, Manganese, Copper, Chromium, Lead, Nickel, Zinc, List 1 substances, Phenol | Annually | | |
| LMC1, LMC2, LMC3, LMC4, LMC5 All future leachate monitoring wells installed | Depth to base of monitoring well (m) | Annually | | |

Table S4.10 Surface water – other monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|---|-------------------------|----------------------|--|----------------------|
| SW1, SW2, SW3, SW4 | Temperature | Monthly | As outlined in Appendix 3 of the Application or as otherwise agreed in writing with the Agency | |
| | Electrical conductivity | Monthly | | |
| | DO | Monthly | | |
| | COD | Annually | | |
| | TOC | Annually | | |
| | Sulphate | Annually | | |
| | Alkalinity | Annually | | |
| | Nitrate | Annually | | |
| | Nitrite | Annually | | |
| | Sodium | Annually | | |
| | Calcium | Annually | | |
| | Magnesium | Annually | | |
| | Copper | Annually | | |
| | Chromium | Annually | | |
| | Lead | Annually | | |
| Nickel | Annually | | | |
| Zinc | Annually | | | |
| All SW Monitoring points | Suspended solids | Monthly | | |

Table S4.11 Groundwater – other monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method |
|---|---|----------------------|--|
| BH4, GW17, GW18, GW19A, GW20, GW21, GW22 All GW boreholes installed following Permit issue | pH | Monthly | As outlined in Appendix 5 of the Application or as otherwise agreed in writing with the Agency |
| | Temperature | Monthly | |
| | Electrical conductivity 20 °C | Monthly | |
| | Dissolved oxygen | Monthly | |
| | Ammoniacal nitrogen | Monthly | |
| | Chloride | Monthly | |
| | COD | Quarterly | |
| | BOD | Quarterly | |
| | TOC | Quarterly | |
| | Sulphate | Quarterly | |
| | Alkalinity | Quarterly | |
| | Nitrate (for TON) | Quarterly | |
| | Nitrite (for TON) | Quarterly | |
| | Sodium | Quarterly | |
| | Potassium | Quarterly | |
| | Phenols | Quarterly | |
| | Calcium | Quarterly | |
| | Magnesium | Quarterly | |
| | Iron | Quarterly | |
| | Manganese | Quarterly | |
| | Copper | Quarterly | |
| | Lead | Quarterly | |
| | Nickel | Quarterly | |
| Zinc | Quarterly | | |
| Ionic balance | Quarterly | | |
| Groundwater level | Monthly | | |
| List I species | Cadmium and naphthalene quarterly for 12 months and annually thereafter. All other substances annually. | | |

Schedule 5 - Reporting

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

| Table S5.1 Reporting of monitoring data | | | |
|--|---|---|----------------------|
| Parameter | Emission or monitoring point/reference | Reporting period | Period begins |
| Leachate levels As required by condition 3.6.1 | As required by Table S4.1 | Every 3 months | 25 July 2006 |
| Emissions to Air Parameters as required by condition 3.6.1. | As required by Table S4.2 | Every 12 months | 25 July 2006 |
| Emissions to water Parameters as required by condition 3.6.1 | As required by Table S4.3 | Every 3 months for monthly parameters and every 12 months for annual parameters | 25 July 2006 |
| Groundwater Parameters as required by condition 3.6.1 | As required by Tables S4.5 and S4.11 | Every 3 months | 25 July 2006 |
| Landfill Gas surface emissions Parameters as required by condition 3.6.1 | As required by Table S4.7 | Every 12 months | 25 July 2006 |
| Landfill Gas lateral migration Parameters as required by condition 3.6.1 | As required by Table S4.6 | Every 3 months | 25 July 2006 |
| Other Landfill Gas monitoring Parameters as required by condition 3.6.1 | As required by Table S4.8 | Every 3 months | 25 July 2006 |
| Other Leachate monitoring Parameters as required by condition 3.6.1 List I screen | As required by Table S4.9 | Every 3 months for quarterly parameters and every 12 months for annual parameters | 25 July 2006 |
| Other Surface Water monitoring Parameters as required by condition 3.6.1 | As required by Table S4.10 | Every 3 months for monthly parameters and every 12 months for annual parameters | 25 July 2006 |

| Table S5.2 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 S5.3 Performance Parameters

| | Frequency of assessment | Annual total | |
|-----------------------|-------------------------|--------------|-------------------|
| Potable water use | Annually | | Cubic metres |
| Energy used | Annually | | MW of electricity |
| Non potable water use | Annually | | Cubic metres |

Table S5.4 Reporting Forms

| Media/parameter | Reporting Format |
|---|--|
| Controlled Water | Reporting format to be agreed in writing by the Agency |
| Surface Water | Reporting format to be agreed in writing by the Agency |
| Groundwater | Reporting format to be agreed in writing by the Agency |
| Landfill Gas | Reporting format to be agreed in writing by the Agency |
| Waste Summary | Reporting format to be agreed in writing by the Agency |
| Landfill Topographical Surveys and interpretation | Reporting format to be agreed in writing by the Agency |

Schedule 6 - Notification

This page outlines the information that the Operator must provide.

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

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

Part A

| | |
|--------------------------------|--|
| Permit Number | |
| Name of Operator | |
| Location of Installation | |
| | |
| Time and date of the detection | |

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission 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 | |

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

Part B to be supplied as soon as practicable

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

| | |
|------------------|--|
| Name* | |
| Post | |
| Signature | |
| Date | |

- authorised to sign on behalf of Lakeland Waste Management Ltd

Schedule 7 - Interpretation

"*Accident*" means an accident that may result in pollution.

"*Annually*" means once every Year.

"*Application*" means the Application for this Permit, together with any additional information supplied by the Operator as part of the Application and any response to a notice served under Schedule 4 to the PPC Regulations

"*Authorised Officer*" means any person authorised by the 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.

"*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.

"*Fugitive emission*" means an emission to air, water or land from the Activities which is not controlled by an emission or background concentration limit.

"*Groundwater Regulations*" means the Groundwater Regulations SI 1998 No. 2746, and words and expressions used in this Permit which are also used in the Regulations shall have the same meanings as in those Regulations.

"*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;

within the Site.

"*Landfill Regulations*" means the Landfill (England and Wales) Regulations SI 2002 No. 1559, and words and expressions used in this Permit which are also used in the Regulations shall have the same meanings as in those Regulations.

"*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, September 2004.

"*LFTGN 08*" means Environment Agency Guidance for monitoring landfill gas engines, September 2004.

"*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 alter the agreed design criteria, specification or performance.

"*PPC Regulations*" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 and words and expressions used in this Permit which are also used in the Regulations have the same meanings as in those Regulations.

"*Quarter*" means a calendar year quarter commencing on 1 January.

"*Relevant person*" and "*relevant conviction*" shall have the meanings given to them in the Environmental Protection Act 1990.

"*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 Groundwater 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 Groundwater Regulations.

"*Site Protection and Monitoring Programme*" means a document which meets the requirements for Site Protection and Monitoring Programmes described in the Landfill Protection Guidance.

"*Technically competent management*" and "*technical competence*" shall have the meanings given to them in the Environmental Protection Act 1990.

"*Year*" means calendar year ending 31 December.

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.

END OF PERMIT