

# Variation with introductory note

Environmental Permitting (England & Wales) Regulations 2007

Port Clarence Hazardous Landfill Site

Augean North Limited Off Huntsman Drive Stockton-on-Tees TS2 1UE

Permit number BV1399

Variation number EPR/BV1399IT/V006

# Port Clarence Hazardous landfill site Permit Number BV1399

## Introductory note

#### This introductory note does not form a part of the permit

The following notice, which is issued pursuant to regulation 20 and Part 1 of Schedule 5 of the Environmental Permitting (England and Wales) Regulations 2007 (S.I.2007 No. 3538) (the Regulations), gives notice of a variation of an environmental permit to operate a regulated facility. Schedule 1 of this notice lists any deleted conditions, schedule 2 lists any amended conditions and schedule 3 lists any conditions that have been added.

The Permit conditions have been varied in line with the conditions contained within the revised landfill template issued 22 November 2007. There is no significant change to the effect of the permit as a result of the variation. The variation incorporates all previous variations.

The main features of the installation are as follows.

The installation is located on the north bank of the River Tees in an area historically dominated by industrial use. The existing landfill is separated in to two installations comprising a hazardous and a non-hazardous landfill.

The activities that are permitted to take place at the installation are the disposal of hazardous waste. The permit requires that provision is made for the collection of leachate and for monitoring of landfill gas.

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

| Status log of the permit                                       |             |               |
|--|-------------|---------------|
| Detail   | Date        | Response Date |
| Application BV1399   | Received 09 | -             |
| (reference EPR/BV1399IT/A001)                                  | /06/2003    |               |
| Permit determined  | 27/02/2004  | -             |
| (reference EPR/BV1399IT/A001)                                  |             |               |
| Variation FP3833BC determined                                  | 16/07/2004  | -             |
| (reference EPR/BV1399IT/V002)                                  |             |               |
| Variation application HP3135SY received                        | 09/12/2004  | -             |
| (reference EPR/BV1399IT/V003)                                  |             |               |
| Variation HP3135SY determined                                  | 14/02/2005  | -             |
| (reference EPR/BV1399IT/V003)                                  |             |               |
| Variation application KP3737SV received                        | 15/08/2005  | -             |
| (reference EPR/BV1399IT/V004)                                  |             |               |
| Variation KP3737SV determined                                  | 14/07/2006  | -             |
| (reference EPR/BV1399IT/V004)                                  |             |               |
| Variation application XP3838ML received                        | 20/09/2006  | -             |
| (reference EPR/BV1399IT/V005)                                  |             |               |
| Variation XP3838ML determined (reference<br>EPR/BV1399IT/V005) | 09/03/2007  | -             |
| Variation EPR/BV1399IT/V006 determined                         | 11/02/2010  | -             |

| Superseded or particular stallation | tially superseded   | licences/authoris | sations/consents relating to this |
|-------------------------------------|---------------------|-------------------|-----------------------------------|
| Holder                              | Reference<br>Number | Date of<br>Issue  | Fully or Partially Superseded     |
| Zero Waste Limited                  | EAWML/66009         | 01/08/1999        | Fully                             |

End of Introductory Note

#### Notice of variation

Environmental Permitting (England and Wales) Regulations 2007

## **Variation Notice**

Permit number **BV1399** 

Variation number EPR/BV1399IT/V006

The Environment Agency (the Agency) in exercise of its powers under Regulation 20 of the Environmental Permitting (England and Wales) Regulations 2007 (SI 2007 No 3538) varies the permit as set out below.

Augean North Limited ("the operator"),

whose registered office (or principal office) is 4 Rudgate Court Walton Wetherby West Yorkshire LS23 7BF

Company registration number 3652506

holds a permit to operate a regulated facility at Port Clarence Hazardous Landfill Site Off Huntsman Drive Stockton-on-Tees TS2 1UE

and that permit is varied to the extent set out in schedules 1 to 3 of this variation notice.

The notice shall take effect from 11<sup>th</sup> February 2010

| Signed      | Date                           |
|-------------|--------------------------------|
| Mart Jenkus | 11 <sup>th</sup> February 2010 |

Authorised to sign on behalf of the Agency.

Martin Jenkins

#### SCHEDULE 1 - CONDITIONS TO BE DELETED

1. All conditions and schedules of permit reference BV1399 are deleted.

#### SCHEDULE 2 - CONDITIONS TO BE AMENDED

2. None.

#### SCHEDULE 3 – CONDITIONS TO BE ADDED

3. The following conditions and schedules are added to the permit.

# 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 16<sup>th</sup> December 2009 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 the cost of operating the landfill, as far as possible the cost of the financial provision required by condition 1.3.1 and 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 blue 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

There are no conditions in this permit to which regulation 15 of the EP Regulations apply.

#### 2.5 Improvement programme

- 2.5.1 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.
- 2.5.2 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, tables S3.1 and S3.2, and
  - (b) they are hazardous waste, and
  - (c) they are not liquid waste (including waste waters but excluding sludge), and
  - (d) they are not waste which in the conditions of landfill is explosive, corrosive, oxidising, highly flammable or flammable, and
  - (e) they are not hospital and other clinical infectious wastes from medical or veterinary establishments, 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, except that the leaching limits set out in schedule 3 table S3.3 shall apply, 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 where treatment would not reduce its quantity or the hazards which it poses to human health or the environment, and
- (k) where the waste acceptance criteria is exceeded for wastes under code 17 05 03\*, the operator shall submit to the Agency for approval a written report demonstrating compliance with the higher leaching limit for the substance(s) or component(s) detailed in schedule 3 table S3.2 prior to the acceptance of the waste. The report shall also demonstrate that alternative disposal options for the waste have been fully explored and that further treatment has been considered to allow the waste to meet the waste acceptance criteria limits. The waste shall not be accepted without written approval of the Agency.
- 2.8.2 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.

- 2.8.3 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.
- 2.8.4 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.8.5 The total quantity of waste that shall be deposited in the landfill shall be limited to 6,500,000 tonnes.
- 2.8.6 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.5.
- 2.8.7 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for 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.
- 2.8.8 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 schedule 4 table S4.1 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.

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## 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 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) agreed in accordance with the submission made in accordance with the improvement programme requirement 1.4.1.3 of the permit 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 limits for landfill gas arising from the installation set out in schedule 4 shall not be exceeded.
- 3.3.6 The limits for particulate matter arising from the installation set out in schedule 4 table S4.7 shall not be exceeded.

### 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 the monitoring and any other actions specified in the following tables in schedule 4 to this permit:
  - (a) Leachate specified in tables S4.1 and S4.5;
  - (b) Groundwater specified in tables S4.2 and S4.6;
  - (c) Landfill gas specified in tables S4.3 and S4.4; and
  - (d) Particulate matter specified in table S4.7.
- 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.

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## 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) sub-surface landfill gas monitoring;
    - (iii) leachate levels, quality and quantities;
    - (iv) landfill gas generation and collection;
    - (v) waste types and quantities;
    - (vi) the location of hazardous waste deposits; and
    - (vii) the specification and as built drawings of the basal, sidewall and capping engineering systems.
- 4.1.2. Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.
- 4.1.3 All records required to be held by this permit shall be held on site and shall be available for inspection by the Agency at any reasonable time.

#### 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) 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) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
  - the energy consumed at the site, reported in the format set out in schedule 5 table S5.3;
  - (d) the annual production/treatment set out in schedule 5 table S5.2;
  - (e) details of any contamination or decontamination of the site which has occurred;

- (f) the topographical surveys required by condition 3.6.3 other than those submitted as part of a CQA validation report;
- (g) 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;
- (h) 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;
- (i) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
- 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 schedule 5 table S5.1;
  - (b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.4; 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. The summary report shall include details of the alternative disposal or treatment options considered for the waste streams specified in schedule 3, table S3.2.
- 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 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency.

#### 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.
- 4.3.5 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**

| Description of specified activity  | Limits of specified activity  |
|--|---|
| Landfill for hazardous<br>waste (landfill<br>classification under the<br>Landfill Directive 1999). | Receipt, handling, storage and<br>disposal of wastes, consisting of the<br>types and quantities specified in<br>conditions 2.8, as an integral part of<br>landfilling.                                |
|  |   |
| Collection of leachate prior to removal by tanker.   | Leachate arising from the landfill.   |
| Collection of landfill gas<br>prior to treatment off-site  | Landfill gas arising from the landfill  |
|  | activity<br>Landfill for hazardous<br>waste (landfill<br>classification under the<br>Landfill Directive 1999).<br>Collection of leachate prior<br>to removal by tanker.<br>Collection of landfill gas |

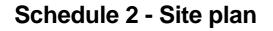
| Description  | Parts   | Date Received |
|--|---|---------------|
| Application.   | The response to questions 1.2, 2.1, 2.2, 2.3, 2.4<br>and 2.5 in part B of the Application Form.<br>Excluding the responses to the following:<br>1.2.21, 2.1.2, 2.2.1, 2.2.3, 2.2.4, 2.3.30, 2.3.40,<br>2.3.45 – 2.3.47, 2.3.68, 4.1.3 – 4.1.23. | 09/06/2003    |
| Letter from Golder<br>Associates (UK) Limited<br>Dated 11 November 2003.                               | All parts.  | 13/11/2003    |
| Supplementary Stability Risk<br>Assessment Report.   | All parts.  | 18/11/2003    |
| A revised surface water monitoring protocol.   | All parts.  | 03/12/2003    |
| A revised list of waste types.   | All parts.  | 11/12/2003    |
| Stability Risk Assessment of<br>the bund between the<br>Hazardous and Non-<br>Hazardous Installations. | All parts.  | 21/01/2004    |
| Drawings showing site access and boundary fence.   | All parts.  | 18/02/2004    |
| Golder Associates (UK) Ltd<br>Report 05529573.500<br>"Leachate Management<br>Plan."                    | All parts.  | 31/03/2006    |
| Report<br>AU/PC/NH/5232/01/ESID.   | All parts.  | 01/11/2006    |
| Report<br>AUPC/PDH/2603/01/HRA.  | All parts.  | 01/11/2006    |
| Compliance with<br>improvement condition:<br>Landfill Gas Management<br>Plan                           | All parts.  | July 2007     |
| Particulates Monitoring<br>Action Plan, dated<br>01/02/2010  | All parts.  | 01/02/2010    |

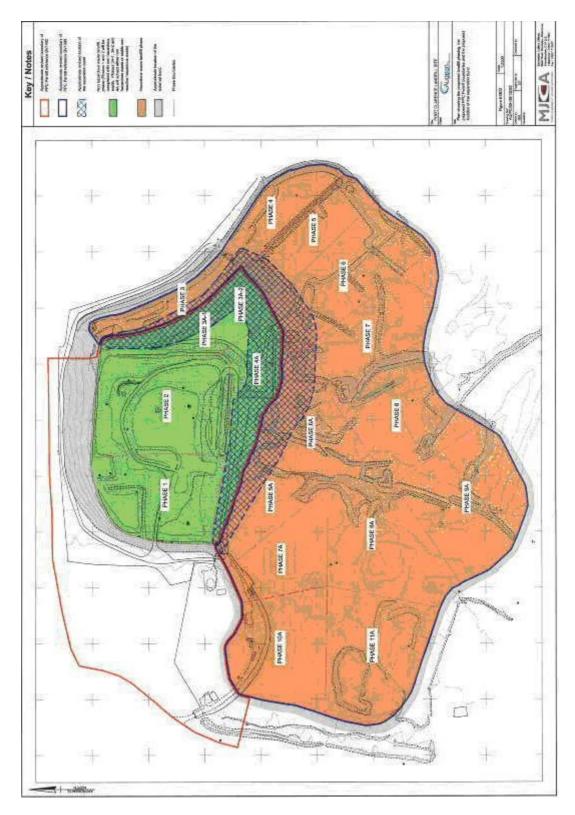
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| Table S1.3 I | Table S1.3 Improvement programme requirements   |            |  |
|--------------|---|------------|--|
| Reference    | Requirement   | Date       |  |
| 1.4.1.10     | The operator shall submit a drawing showing the pre-settlement contours for the installation. | 30/04/2010 |  |

| Table S1.4 Pre-operational measures for future development |  |   |
|--|--|---|
| Reference  | Operation  | Pre-operational Measures  |
| 1  | Prior to the installation of the leachate collection pipework. | The operator shall submit to the Agency for approval details of inspection and maintenance of the leachate drainage pipework within each cell where waste deposits commence after the issue of this Permit. |
|  |  | The operator shall undertake any measures approved in writing by the Agency to the timescales indicated in the approval.  |

| Table S1.5 Annual waste input limits |                    |  |
|--------------------------------------|--------------------|--|
| Category                             | Limit Tonnes/ Year |  |
| Hazardous waste                      | 500,000            |  |





#### Not to scale

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# Schedule 3 - List of permitted wastes

|           | Permitted wastes   |
|-----------|--|
| EWC       | Description  |
| 01 03     | wastes from physical and chemical processing of metalliferous minerals   |
| 01 03 05* | other tailings containing dangerous substances   |
| 01 03 07* | other wastes containing dangerous substances from physical and chemical processing o<br>metalliferous minerals |
| 01 04     | wastes from physical and chemical processing of non-metalliferous minerals                                     |
| 01 04 07* | wastes containing dangerous substances from physical and chemical processing of non-<br>metalliferous minerals |
| 01 05     | drilling muds and other drilling wastes  |
| 01 05 05* | oil-containing drilling muds and wastes  |
| 01 05 06* | drilling muds and other drilling wastes containing dangerous substances  |
| 02 01     | wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing                              |
| 02 01 08* | agrochemical waste containing dangerous substances   |
| 03 01     | wastes from wood processing and the production of panels and furniture   |
| 03 01 04* | sawdust, shavings, cuttings, wood, particle board and veneer containing dangerous substances                   |
| 04 02     | wastes from the textile industry   |
| 04 02 14* | wastes from finishing containing organic solvents  |
| 04 02 16* | dyestuffs and pigments containing dangerous substances   |
| 05 01     | wastes from petroleum refining   |
| 05 01 03* | tank bottom sludges  |
| 05 01 06* | oily sludges from maintenance operations of the plant or equipment   |
| 05 01 07* | acid tars  |
| 05 01 08* | other tars   |
| 05 01 11* | wastes from cleaning of fuels with bases   |
| 05 01 12* | oil containing acids   |
| 05 01 15* | spent filter clays   |
| 05 06     | wastes from the pyrolytic treatment of coal  |
| 05 06 01* | acid tars  |
| 05 06 03* | other tars   |
| 05 07     | wastes from natural gas purification and transportation  |
| 05 07 01* | wastes containing mercury  |
| 06 03     | wastes from the MFSU of salts and their solutions and metallic oxides  |
| 06 03 11* | solid salts and solutions containing cyanides  |
| 06 03 13* | solid salts and solutions containing heavy metals  |
| 06 03 15* | metallic oxides containing heavy metals  |
| 06 04     | metal-containing wastes other than those mentioned in 06 03  |
| 06 04 03* | wastes containing arsenic  |
| 06 04 04* | wastes containing mercury  |
| 06 04 05* | wastes containing other heavy metals   |
| 06 06     | wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes           |
| 06 06 02* | wastes containing dangerous sulphides  |
| 06 07     | wastes from the MFSU of halogens and halogen chemical processes  |
| 06 07 01* | wastes containing asbestos from electrolysis   |
| 06 08     | wastes from the MFSU of silicon and silicon derivatives  |
| 06 08 02* | wastes containing dangerous silicones  |

| Table S3.1 | Permitted wastes  |  |
|------------|---|--|
| EWC        | Description   |  |
| 06 09      | wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes  |  |
| 06 09 03*  | calcium-based reaction wastes containing or contaminated with dangerous substances  |  |
| 06 10      | wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture  |  |
| 06 10 02*  | wastes containing dangerous substances  |  |
| 06 13      | wastes from inorganic chemical processes not otherwise specified  |  |
| 06 13 01*  | inorganic plant protection products, wood-preserving agents and other biocides.   |  |
| 06 13 02*  | spent activated carbon (except 06 07 02)  |  |
| 06 13 04*  | wastes from asbestos processing   |  |
| 06 13 05*  | soot  |  |
| 07 01      | wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals  |  |
| 07 01 08*  | other still bottoms and reaction residues   |  |
| 07 02      | wastes from the MFSU of plastics, synthetic rubber and man-made fibres  |  |
| 07 02 10*  | other filter cakes and spent absorbents   |  |
| 07 02 11*  | sludges from on-site effluent treatment containing dangerous substances   |  |
| 07 02 14*  | wastes from additives containing dangerous substances   |  |
| 07 02 16*  | wastes containing dangerous silicones   |  |
| 07 03      | wastes from the MFSU of organic dyes and pigments (except 06 11)  |  |
| 07 03 08*  | other still bottoms and reaction residues   |  |
| 07 03 10*  | other filter cakes and spent absorbents   |  |
| 07 04      | wastes from the MFSU of organic plant protection products (except 02 01 08 and 0 01 09), wood preserving agents (except 03 02) and other biocides |  |
| 07 04 07*  | halogenated still bottoms and reaction residues   |  |
| 07 04 11*  | sludges from on-site effluent treatment containing dangerous substances   |  |
| 07 05      | wastes from the MFSU of pharmaceuticals   |  |
| 07 05 08*  | other still bottoms and reaction residues   |  |
| 07 05 10*  | other filter cakes and spent absorbents   |  |
| 07 05 13*  | solid wastes containing dangerous substances  |  |
| 07 06      | wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics  |  |
| 07 06 07*  | halogenated still bottoms and reaction residues   |  |
| 07 06 08*  | other still bottoms and reaction residues   |  |
| 07 06 10*  | other filter cakes and spent absorbents   |  |
| 07 07      | wastes from the MFSU of fine chemicals and chemical products not otherwise specified  |  |
| 07 07 08*  | other still bottoms and reaction residues   |  |
| 07 07 09*  | halogenated filter cakes and spent absorbents   |  |
| 07 07 10*  | other filter cakes and spent absorbents   |  |
| 08 01      | wastes from MFSU and removal of paint and varnish   |  |
| 08 01 13*  | sludges from paint or varnish containing organic solvents or other dangerous substances   |  |
| 08 01 17*  | wastes from paint or varnish removal containing organic solvents or other dangerous substances  |  |
| 08 03      | wastes from MFSU of printing inks   |  |
| 08 03 12*  | waste ink containing dangerous substances   |  |
| 08 03 17*  | waste printing toner containing dangerous substances  |  |
| 08 04      | wastes from MFSU of adhesives and sealants (including waterproofing products)   |  |
| 08 04 09*  | waste adhesives and sealants containing organic solvents or other dangerous substance   |  |
| 08 04 11*  | adhesive and sealant sludges containing organic solvents or other dangerous substances  |  |
|            |   |  |

| Table S3.1 | Permitted wastes   |
|------------|--|
| EWC        | Description  |
| 08 05      | wastes not otherwise specified in 08   |
| 08 05 01*  | waste isocyanates  |
| 09 01      | wastes from the photographic industry  |
| 09 01 06*  | wastes containing silver from on-site treatment of photographic wastes                 |
| 09 01 11*  | single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03     |
| 10 01      | wastes from power stations and other combustion plants (except 19)                     |
| 10 01 04*  | oil fly ash and boiler dust  |
| 10 01 13*  | fly ash from emulsified hydrocarbons used as fuel                                      |
| 10 01 14*  | bottom ash, slag and boiler dust from co-incineration containing dangerous substances  |
| 10 01 16*  | fly ash from co-incineration containing dangerous substances                           |
| 10 01 18*  | wastes from gas cleaning containing dangerous substances                               |
| 10 01 20*  | sludges from on-site effluent treatment containing dangerous substances                |
| 10 02      | wastes from the iron and steel industry  |
| 10 02 07*  | solid wastes from gas treatment containing dangerous substances                        |
| 10 02 11*  | wastes from cooling-water treatment containing oil                                     |
| 10 03      | wastes from aluminium thermal metallurgy   |
| 10 03 04*  | primary production slags   |
| 10 03 08*  | salt slags from secondary production   |
| 10 03 09*  | black drosses from secondary production  |
| 10 03 17*  | tar-containing wastes from anode manufacture   |
| 10 03 19*  | flue-gas dust containing dangerous substances  |
| 10 03 21*  | other particulates and dust (including ball-mill dust) containing dangerous substances |
| 10 03 23*  | solid wastes from gas treatment containing dangerous substances                        |
| 10 03 25*  | sludges and filter cakes from gas treatment containing dangerous substances            |
| 10 03 29*  | wastes from treatment of salt slags and black drosses containing dangerous substances  |
| 10 04      | wastes from lead thermal metallurgy  |
| 10 04 01*  | slags from primary and secondary production  |
| 10 04 02*  | dross and skimmings from primary and secondary production                              |
| 10 04 03*  | calcium arsenate   |
| 10 04 04*  | flue-gas dust  |
| 10 04 05*  | other particulates and dust  |
| 10 04 06*  | solid wastes from gas treatment  |
| 10 04 07*  | sludges and filter cakes from gas treatment  |
| 10 05      | wastes from zinc thermal metallurgy  |
| 10 05 03*  | flue-gas dust  |
| 10 05 05*  | solid waste from gas treatment   |
| 10 05 06*  | sludges and filter cakes from gas treatment  |
| 10 06      | wastes from copper thermal metallurgy  |
| 10 06 03*  | flue-gas dust  |
| 10 06 06*  | solid wastes from gas treatment  |
| 10 06 09*  | wastes from cooling-water treatment containing oil                                     |
| 10 07      | wastes from silver, gold and platinum thermal metallurgy                               |
| 10 07 07*  | wastes from cooling-water treatment containing oil                                     |
| 10 08      | wastes from other non-ferrous thermal metallurgy                                       |
| 10 08 08*  | salt slag from primary and secondary production  |
| 10 08 12*  | tar-containing wastes from anode manufacture   |
| 10 08 15*  | flue-gas dust containing dangerous substances  |
| 10 08 17*  | sludges and filter cakes from flue-gas treatment containing dangerous substances       |

| Table S3.1      | Permitted wastes  |  |  |
|-----------------|---|--|--|
| EWC             | Description   |  |  |
| 10 08 19*       | wastes from cooling-water treatment containing oil  |  |  |
| 10 09           | wastes from casting of ferrous pieces   |  |  |
| 10 09 05*       | casting cores and moulds which have not undergone pouring containing dangerous substances   |  |  |
| 10 09 07*       | casting cores and moulds which have undergone pouring containing dangerous substances   |  |  |
| 10 09 09*       | flue-gas dust containing dangerous substances   |  |  |
| 10 09 11*       | other particulates containing dangerous substances  |  |  |
| 10 09 13*       | waste binders containing dangerous substances   |  |  |
| 10 09 15*       | waste crack-indicating agent containing dangerous substances  |  |  |
| 10 10           | wastes from casting of non-ferrous pieces   |  |  |
| 10 10 05*       | casting cores and moulds which have not undergone pouring, containing dangerous substances  |  |  |
| 10 10 07*       | casting cores and moulds which have undergone pouring, containing dangerous substances  |  |  |
| 10 10 09*       | flue-gas dust containing dangerous substances   |  |  |
| 10 10 11*       | other particulates containing dangerous substances  |  |  |
| 10 10 13*       | waste binders containing dangerous substances   |  |  |
| 10 10 15*       | waste crack-indicating agent containing dangerous substances  |  |  |
| 10 11           | wastes from manufacture of glass and glass products   |  |  |
| 10 11 09*       | waste preparation mixture before thermal processing, containing dangerous substances  |  |  |
| 10 11 11*       | waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes)  |  |  |
| 10 11 13*       | glass-polishing and -grinding sludge containing dangerous substances  |  |  |
| 10 11 15*       | solid wastes from flue-gas treatment containing dangerous substances  |  |  |
| 10 11 17*       | sludges and filter cakes from flue-gas treatment containing dangerous substances  |  |  |
| 10 11 19*       | solid wastes from on-site effluent treatment containing dangerous substances  |  |  |
| 10 12           | wastes from manufacture of ceramic goods, bricks, tiles and construction products   |  |  |
| 10 12 09*       | solid wastes from gas treatment containing dangerous substances   |  |  |
| 10 12 11*       | wastes from glazing containing heavy metals   |  |  |
| 10 13           | wastes from manufacture of cement, lime and plaster and articles and products made from them  |  |  |
| 10 13 09*       | wastes from asbestos-cement manufacture containing asbestos   |  |  |
| 10 13 12*       | solid wastes from gas treatment containing dangerous substances   |  |  |
| 10 14           | waste from crematoria   |  |  |
| 10 14 01*       | waste from gas cleaning containing mercury  |  |  |
| 11 01           | wastes from chemical surface treatment and coating of metals and other materials<br>(for example galvanic processes, zinc coating processes, pickling processes,<br>etching, phosphatising, alkaline degreasing, anodising) |  |  |
| 11 01 08*       | phosphatising sludges   |  |  |
| 11 01 08        | sludges and filter cakes containing dangerous substances  |  |  |
| 11 01 13*       | degreasing wastes containing dangerous substances   |  |  |
| 11 01 15*       | eluate and sludges from membrane systems or ion exchange systems containing dangerous substances  |  |  |
| 11 01 16*       | saturated or spent ion exchange resins  |  |  |
| 11 01 98*       | other wastes containing dangerous substances  |  |  |
| <b>11 01</b> 98 | wastes from non-ferrous hydrometallurgical processes  |  |  |
| 11 02 02*       | sludges from zinc hydrometallurgy (including jarosite, goethite)  |  |  |
| 11 02 02*       |   |  |  |
| 11 02 00        | wastes from copper hydrometallurgical processes containing dangerous substances   |  |  |

| Table S3.1 | Permitted wastes   |  |  |  |  |  |
|------------|--|--|--|--|--|--|
| EWC        | Description  |  |  |  |  |  |
| 11 02 07*  | other wastes containing dangerous substances   |  |  |  |  |  |
| 11 03      | sludges and solids from tempering processes  |  |  |  |  |  |
| 11 03 01*  | wastes containing cyanide  |  |  |  |  |  |
| 11 03 02*  | other wastes   |  |  |  |  |  |
| 11 05      | wastes from hot galvanising processes  |  |  |  |  |  |
| 11 05 03*  | solid wastes from gas treatment  |  |  |  |  |  |
| 11 05 04*  | spent flux   |  |  |  |  |  |
| 12 01      | wastes from shaping and physical and mechanical surface treatment of metals and plastics   |  |  |  |  |  |
| 12 01 12*  | spent waxes and fats   |  |  |  |  |  |
| 12 01 14*  | machining sludges containing dangerous substances  |  |  |  |  |  |
| 12 01 16*  | waste blasting material containing dangerous substances  |  |  |  |  |  |
| 12 01 18*  | metal sludge (grinding, honing and lapping sludge) containing oil  |  |  |  |  |  |
| 12 01 20*  | spent grinding bodies and grinding materials containing dangerous substances   |  |  |  |  |  |
| 12 03      | wastes from water and steam degreasing processes (except 11)   |  |  |  |  |  |
| 12 03 02*  | steam degreasing wastes  |  |  |  |  |  |
| 13 04      | bilge oils   |  |  |  |  |  |
| 13 04 01*  | bilge oils from inland navigation  |  |  |  |  |  |
| 13 04 02*  | bilge oils from jetty sewers   |  |  |  |  |  |
| 13 04 03*  | bilge oils from other navigation   |  |  |  |  |  |
| 13 05      | oil/water separator contents   |  |  |  |  |  |
| 13 05 01*  | solids from grit chambers and oil/water separators   |  |  |  |  |  |
| 13 05 02*  | sludges from oil/water separators  |  |  |  |  |  |
| 13 05 03*  | interceptor sludges  |  |  |  |  |  |
| 13 05 06*  | oil from oil/water separators  |  |  |  |  |  |
| 13 05 08*  | mixtures of wastes from grit chambers and oil/water separators   |  |  |  |  |  |
| 13 08      | oil wastes not otherwise specified   |  |  |  |  |  |
| 13 08 01*  | desalter sludges or emulsions  |  |  |  |  |  |
| 14 06      | waste organic solvents, refrigerants and foam/aerosol propellants  |  |  |  |  |  |
| 14 06 04*  | sludges or solid wastes containing halogenated solvents  |  |  |  |  |  |
| 14 06 05*  | sludges or solid wastes containing other solvents  |  |  |  |  |  |
| 15 01      | packaging (including separately collected municipal packaging waste)   |  |  |  |  |  |
| 15 01 10*  | packaging containing residues of or contaminated by dangerous substances   |  |  |  |  |  |
| 15 01 11*  | metallic packaging containing a dangerous solid porous matrix (for example asbestos),  |  |  |  |  |  |
|            | including empty pressure containers  |  |  |  |  |  |
| 15 02      | absorbents, filter materials, wiping cloths and protective clothing  |  |  |  |  |  |
| 15 02 02*  | absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances  |  |  |  |  |  |
| 16 01      | end-of-life vehicles from different means of transport (including off-road machinery)<br>and wastes from dismantling of end-of-life vehicles and vehicle maintenance<br>(except 13, 14, 16 06 and 16 08) |  |  |  |  |  |
| 16 01 07*  | oil filters  |  |  |  |  |  |
| 16 01 08*  | components containing mercury  |  |  |  |  |  |
| 16 01 11*  | brake pads containing asbestos   |  |  |  |  |  |
| 16 01 21*  | hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13   |  |  |  |  |  |
|            | and 16 01 14   |  |  |  |  |  |
| 16 02      | wastes from electrical and electronic equipment  |  |  |  |  |  |
| 16 02 12*  | discarded equipment containing free asbestos   |  |  |  |  |  |
| 16 02 13*  | discarded equipment containing hazardous components other than those mentioned in 16   |  |  |  |  |  |
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| 3)   |  |  |  |  |  |
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| spent catalysts contaminated with dangerous substances |  |  |  |  |  |
| waste linings and refractories                         |  |  |  |  |  |
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| Table S3.1 | Permitted wastes   |  |  |  |  |
|------------|--|--|--|--|--|
| EWC        | Description  |  |  |  |  |
| 17 09      | other construction and demolition wastes   |  |  |  |  |
| 17 09 01*  | construction and demolition wastes containing mercury  |  |  |  |  |
| 17 09 03*  | other construction and demolition wastes (including mixed wastes) containing dangerous<br>substances |  |  |  |  |
| 18 01      | wastes from natal care, diagnosis, treatment or prevention of disease in humans                      |  |  |  |  |
| 18 01 06*  | chemicals consisting of or containing dangerous substances   |  |  |  |  |
| 18 01 10*  | amalgam waste from dental care   |  |  |  |  |
| 18 02      | wastes from research, diagnosis, treatment or prevention of disease involving animals                |  |  |  |  |
| 18 02 05*  | chemicals consisting of or containing dangerous substances   |  |  |  |  |
| 19 01      | wastes from incineration or pyrolysis of waste   |  |  |  |  |
| 19 01 05*  | filter cake from gas treatment   |  |  |  |  |
| 19 01 07*  | solid wastes from gas treatment  |  |  |  |  |
| 19 01 10*  | spent activated carbon from flue-gas treatment   |  |  |  |  |
| 19 01 11*  | bottom ash and slag containing dangerous substances  |  |  |  |  |
| 19 01 13*  | fly ash containing dangerous substances  |  |  |  |  |
| 19 01 15*  | boiler dust containing dangerous substances  |  |  |  |  |
| 19 01 17*  | pyrolysis wastes containing dangerous substances   |  |  |  |  |
| 19 02      | wastes from physico/chemical treatments of waste (including dechromatation,                          |  |  |  |  |
|            | decyanidation, neutralisation)   |  |  |  |  |
| 19 02 04*  | premixed wastes composed of at least one hazardous waste   |  |  |  |  |
| 19 02 05*  | sludges from physico/chemical treatment containing dangerous substances                              |  |  |  |  |
| 19 02 07*  | oil and concentrates from separation   |  |  |  |  |
| 19 02 09*  | solid combustible wastes containing dangerous substances   |  |  |  |  |
| 19 02 11*  | other wastes containing dangerous substances   |  |  |  |  |
| 19 03      | stabilised/solidified wastes   |  |  |  |  |
| 19 03 04*  | wastes marked as hazardous, partly stabilised  |  |  |  |  |
| 19 03 06*  | wastes marked as hazardous, solidified   |  |  |  |  |
| 19 04      | vitrified waste and wastes from vitrification  |  |  |  |  |
| 19 04 02*  | fly ash and other flue-gas treatment wastes  |  |  |  |  |
| 19 04 03*  | non-vitrified solid phase  |  |  |  |  |
| 19 08      | wastes from waste water treatment plants not otherwise specified                                     |  |  |  |  |
| 19 08 06*  | saturated or spent ion exchange resins   |  |  |  |  |
| 19 08 07*  | solutions and sludges from regeneration of ion exchangers  |  |  |  |  |
| 19 08 08*  | membrane system waste containing heavy metals  |  |  |  |  |
| 19 08 10*  | grease and oil mixture from oil/water separation other than those mentioned in 19 08 09              |  |  |  |  |
| 19 08 11*  | sludges containing dangerous substances from biological treatment of industrial waste water          |  |  |  |  |
| 19 08 13*  | sludges containing dangerous substances from other treatment of industrial waste water               |  |  |  |  |
| 19 10      | wastes from shredding of metal-containing wastes   |  |  |  |  |
| 19 10 03*  | fluff-light fraction and dust containing dangerous substances  |  |  |  |  |
| 19 10 05*  | other fractions containing dangerous substances  |  |  |  |  |
| 19 11      | wastes from oil regeneration   |  |  |  |  |
| 19 11 01*  | spent filter clays   |  |  |  |  |
| 19 11 02*  | acid tars  |  |  |  |  |
| 19 11 04*  | wastes from cleaning of fuel with bases  |  |  |  |  |
| 19 11 05*  | sludges from on-site effluent treatment containing dangerous substances                              |  |  |  |  |
| 19 11 07*  | wastes from flue-gas cleaning  |  |  |  |  |

| Table S3.1 | Permitted wastes   |
|------------|--|
| EWC        | Description  |
| 19 12      | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified           |
| 19 12 06*  | wood containing dangerous substances   |
| 19 12 11*  | other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances                        |
| 19 13      | wastes from soil and groundwater remediation   |
| 19 13 01*  | solid wastes from soil remediation containing dangerous substances   |
| 19 13 03*  | sludges from soil remediation containing dangerous substances  |
| 19 13 05*  | sludges from groundwater remediation containing dangerous substances   |
| 20 01      | separately collected fractions (except 15 01)  |
| 20 01 21*  | fluorescent tubes and other mercury-containing waste   |
| 20 01 26*  | oil and fat other than those mentioned in 20 01 25   |
| 20 01 27*  | paint, inks, adhesives and resins containing dangerous substances  |
| 20 01 29*  | detergents containing dangerous substances   |
| 20 01 33*  | batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries |
| 20 01 35*  | discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components        |
| 20 01 37*  | wood containing dangerous substances   |

| List of Waste<br>classification                                    | Description   | Component   |
|--|---|---|
| 05 01 03*  | tank bottom sludges   | Antimony  |
| 05 01 09*  | sludges from on-site effluent treatment containing<br>dangerous substances        | Chloride  |
| 08 01 11*  | waste paint and varnish containing organic solvents or other dangerous substances | Lead, Antimony  |
| 10 01 18* wastes from gas cleaning containing dangerous substances |   | Nickel  |
| 11 01 09*  | sludges and filter cakes containing dangerous substances                          | Nickel  |
| 13 05 03*  | interceptor sludges   | Sulphate  |
| 16 08 07*  | spent catalysts contaminated with dangerous substances                            | Antimony  |
| 17 05 03*  | soil and stones containing dangerous substances                                   | Arsenic, Barium, Cadmium,<br>Chromium, Copper,<br>Mercury, Molybdenum,<br>Nickel, Lead, Antimony,<br>Zinc, Chloride, Fluoride,<br>Sulphate, TDS |
| 19 01 07*  | solid wastes from gas treatment   | Nickel, Lead, Antimony  |
| 19 01 11*  | bottom ash and slag containing dangerous substances                               | Sulphate  |
| 19 01 13*  | fly ash containing dangerous substances   | Sulphate, TDS   |
| 19 02 05*  | sludges from physico/chemical treatment containing dangerous substances           | Sulphate  |
| 19 03 04*  | wastes marked as hazardous, partly stabilised                                     | Chloride, TDS   |
| 19 11 05*  | sludges from on-site effluent treatment containing<br>dangerous substances        | Lead  |

| Table S3.2 Specified Granular Wastes with elevated WAC limits |   |                                     |  |  |  |
|---|---|-------------------------------------|--|--|--|
| List of Waste<br>classification                               | Description   | Component                           |  |  |  |
| 19 12 11*   | other wastes (including mixtures of materials) from<br>mechanical treatment of waste containing dangerous<br>substances | Arsenic, Chromium,<br>Mercury, Zinc |  |  |  |

| Component                    | L/S = 10 I/kg Leaching limit (mg/kg dry substance) |
|------------------------------|--|
| Arsenic (As)                 | 75   |
| Barium (Ba)                  | 900  |
| Cadmium (Cd)                 | 15   |
| Chromium (Cr)                | 210  |
| Copper (Cu)                  | 300  |
| Mercury (Hg)                 | 6  |
| Molybdenum (Mo)              | 90   |
| Nickel (Ni)                  | 120  |
| Lead (Pb)                    | 150  |
| Antimony (Sb)                | 15   |
| Selenium (Se)                | 21   |
| Zinc (Zn)                    | 600  |
| Chloride (Cl)                | 75,000   |
| Fluoride (F)                 | 1,500  |
| Sulphate (SO4)               | 150,000  |
| Total Dissolved Solids (TDS) | 300,000  |

# Schedule 4 – Emissions and monitoring

| Monitoring point reference/<br>Description                                | Limit                       | Monitoring<br>frequency | Monitoring method  |
|---|-----------------------------|-------------------------|--|
| Two leachate monitoring points<br>in each hydraulically separate<br>cell. | 1m above the basal<br>liner | Monthly                 | In accordance with the<br>application, or<br>otherwise as agreed<br>with the Agency in<br>writing, with an<br>accuracy of +/- 0.05m. |

| Monitoring point<br>Ref. /description | Parameter                          | Limit (incl.<br>unit) | Monitoring<br>frequency | Monitoring standard or<br>method   |
|---------------------------------------|------------------------------------|-----------------------|-------------------------|--|
| PC05a                                 | Methane                            | 1% v/v                | Weekly                  | In accordance with<br>LFTGN03 Guidance on<br>the management of<br>landfill gas, Environment<br>Agency, September<br>2004 |
|                                       | Carbon dioxide                     | 6% v/v                |                         |  |
|                                       | Oxygen,<br>Atmospheric<br>pressure | No limit set          | _                       |  |
| PC10b                                 | Methane                            | 1% v/v                | Weekly                  | In accordance with   |
|                                       | Carbon dioxide                     | 4% v/v                |                         | LFTGN03 Guidance on  |
|                                       | Oxygen,<br>Atmospheric<br>pressure | No limit set          |                         | the management of<br>landfill gas, Environment<br>Agency, September<br>2004  |
| PC11a                                 | Methane                            | 1% v/v                | Weekly                  | In accordance with<br>LFTGN03 Guidance on<br>the management of<br>landfill gas, Environment<br>Agency, September<br>2004 |
|                                       | Carbon dioxide                     | 8.5% v/v              |                         |  |
|                                       | Oxygen,<br>Atmospheric<br>pressure | No limit set          |                         |  |
| PC18b                                 | Methane                            | 2% v/v                | Weekly                  | In accordance with<br>LFTGN03 Guidance on  |
|                                       | Carbon dioxide                     | 2.5% v/v              |                         |  |
|                                       | Oxygen,<br>Atmospheric<br>pressure | No limit set          |                         | the management of<br>landfill gas, Environment<br>Agency, September<br>2004  |
| PC21                                  | Methane                            | No limit set          | Weekly In acco          | In accordance with   |
|                                       | Carbon dioxide                     | No limit set          |                         | LFTGN03 Guidance on<br>the management of<br>landfill gas, Environmen<br>Agency, September<br>2004                        |
|                                       | Oxygen,<br>Atmospheric<br>pressure | No limit set          | _                       |  |
| PC22                                  | Methane                            | No limit set          | Weekly                  | In accordance with   |
|                                       | Carbon dioxide                     | 2.5% v/v              |                         | LFTGN03 Guidance on  |
|                                       | Oxygen,<br>Atmospheric<br>pressure | No limit set          |                         | the management of<br>landfill gas, Environment<br>Agency, September<br>2004  |

| Table S4.2 Landfill gas in external monitoring boreholes – limits and monitoring requirements  |                                    |                       |                         |   |  |
|--|------------------------------------|-----------------------|-------------------------|---|--|
| Monitoring point<br>Ref. /description  | Parameter                          | Limit (incl.<br>unit) | Monitoring<br>frequency | Monitoring standard or<br>method  |  |
| PC01a, PC01b,  | Methane                            | 1% v/v                | Weekly                  | In accordance with  |  |
| PC02a, PC02b,  | Carbon dioxide                     | 2.5% v/v              |                         | LFTGN03 Guidance on   |  |
| PC03a, PC03b,<br>PC04a, PC04b,<br>PC05b, PC06, PC07,<br>PC08, PC09, PC10a,<br>PC11b, PC12a,<br>PC12b, PC14, PC15,<br>PC16a, PC16b,<br>PC17, PC18a,<br>PC19a, PC19b,<br>PC20, PC23. | Oxygen,<br>Atmospheric<br>pressure | No limit set          |                         | the management of<br>landfill gas, Environment<br>Agency, September<br>2004 |  |

| Monitoring point<br>Ref. /description | Parameter   | Monitoring<br>frequency | Other specifications  | Monitoring Standard<br>or method                                       |
|---------------------------------------|---|-------------------------|---|--|
| Permanently capped zone.              | Average<br>methane flux<br>and total<br>methane<br>emission | Annually*               | Where the average<br>zone emission rate of<br>0.001 mg/m2/second<br>is exceeded<br>appropriate measures<br>must be taken to<br>reduce the rate. | As per LFTGN 07 or as<br>otherwise agreed in<br>writing by the Agency. |
| Temporarily capped zone.              | Average<br>methane flux<br>and total<br>methane<br>emission | Annually*               | Where the average<br>zone emission rate of<br>0.1 mg/m2/second is<br>exceeded appropriate<br>measures must be<br>taken to reduce the<br>rate.   | As per LFTGN 07 or as<br>otherwise agreed in<br>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 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 and the values for average methane flux and total methane emissions measured in the previous year may be reported. A quantitative survey is not necessary. If the zone remains stable, the results of a detailed walkover survey will be acceptable for the annual report for a period of four years before a further quantitative survey is required.

| Table S4.4 Landfill gas – other monitoring requirements                                  |   |                         |   |                         |  |  |
|--|---|-------------------------|---|-------------------------|--|--|
| Emission point<br>reference or<br>source or<br>description of<br>point of<br>measurement | Parameter   | Monitoring<br>frequency | Monitoring standard<br>or method  | Other<br>specifications |  |  |
| All gas monitoring<br>points and all gas<br>extraction points<br>within the cells.       | Methane, Carbon<br>dioxide, Oxygen,<br>Atmospheric<br>pressure,<br>Temperature. | Monthly                 | In accordance with<br>LFTGN03 "Guidance<br>on the management<br>of landfill gas",<br>Environment Agency,<br>September 2004. | None                    |  |  |

| Table S4.4 Landf   | ill gas – other monitorii   | na reauirement                                      | ts  |   |
|--|---|---|---|---|
| Emission point<br>reference or<br>source or<br>description of<br>point of<br>measurement   | Parameter   | Monitoring<br>frequency                             | Monitoring standar<br>or method   | d Other<br>specifications   |
| One gas monitorin<br>point and one gas<br>extraction point in<br>each cell.<br>Table S4.5 Leach<br>Emission point<br>reference or<br>source or |   | Annually<br>requirements<br>Monitoring<br>frequency | In accordance with<br>LFTGN04 "Guidance<br>for monitoring trace<br>components in landfi<br>gas", Environment<br>Agency, September<br>2004.<br>Monitoring<br>standard or<br>method | shall be as   |
| description of<br>point of<br>measurement  |   |   |   |   |
| Collection sump<br>in each   | Conductivity,<br>Temperature, pH  | Monthly   | In accordance<br>with the Agency's  | The operator shall<br>assess the results  |
| hydraulically<br>separate cell (or<br>monitoring point<br>during periods of<br>leachate<br>abstraction).                                       | Ammoniacal nitrogen,<br>Chloride, Sulphate,<br>Alkalinity (CaCO3),<br>Phenols, COD, BOD,<br>TOC, TON, Sodium,<br>Potassium, Calcium,<br>Magnesium,<br>Chromium, Cadmium,<br>Manganese, Iron,<br>Copper, Nickel, Zinc,<br>Lead | Quarterly   | LFTGN02<br>"Guidance on<br>Monitoring of<br>Landfill Leachate,<br>Groundwater and<br>Surface Water",<br>dated June 2002.  | against the following<br>compliance limits,<br>unless otherwise<br>agreed in writing with<br>the Agency:<br>Chloride 1500 mg/l<br>Ammoniacal nitrogen<br>600 mg/l<br>Cadmium 1.7 mg/l<br>Mecoprop 0.14 mg/l |
|  | Mecoprop, Toluene,<br>Biphenyl  | Annually  |   | Toluene 1.29 mg/l<br>Biphenyl 8.6 µg/l  |

| Table S4.5 Leach   | Table S4.5 Leachate – other monitoring requirements |                         |  |                      |
|--|---|-------------------------|--|----------------------|
| Emission point<br>reference or<br>source or<br>description of<br>point of<br>measurement | Parameter   | Monitoring<br>frequency | Monitoring<br>standard or<br>method  | Other specifications |
| Representative<br>sample from<br>each<br>hydraulically<br>separate cell.                 | List I/II screen                                    | Annually                | In accordance<br>with LFTGN01<br>"Hydrogeological<br>risk assessments<br>for landfills",<br>Environment<br>Agency, March<br>2003.                              | None                 |
| Leachate<br>monitoring<br>points.  | Base  | Annually                | In accordance<br>with the Agency's<br>LFTGN02<br>"Guidance on<br>Monitoring of<br>Landfill Leachate,<br>Groundwater and<br>Surface Water",<br>dated June 2002. | None                 |

| Table S4.6 Groundwater – of<br>Emission point reference<br>or source or description of<br>point of measurement   | ther monitoring requi<br>Parameter   | rements<br>Monitoring<br>frequency | Monitoring<br>standard or<br>method   | Other<br>specifications |
|--|--|------------------------------------|---|-------------------------|
| PC5.1, PC5.2, PC6.1,<br>PC6.2, PC7, PC8, PC9,<br>PC10.1, PC10.2, PC11.1,<br>PC11.2, PC12.1, PC12.2,<br>GA01, GA02, GA03, GA04<br>(as shown on plan Figure 3<br>of the Groundwater Risk<br>Assessment dated May<br>2003). | Water level<br>Depth to base   | Monthly<br>Annually                | In accordance<br>with the<br>Agency's<br>LFTGN02<br>"Guidance on<br>Monitoring of<br>Landfill<br>Leachate,<br>Groundwater<br>and Surface<br>Water", dated<br>June 2002. | None                    |
| PC5.1, PC5.2, PC6.1,<br>PC6.2, PC7, PC8, PC9,<br>PC10.1, PC10.2, PC11.1,<br>PC11.2, PC12.1, PC12.2,<br>GA01, GA02, GA03, GA04<br>(as shown on plan Figure 3<br>of the Groundwater Risk<br>Assessment dated May<br>2003)  | pH, Conductivity,<br>Ammonium,<br>Chloride, Oxidised<br>carbon, Iron,<br>Copper, Cadmium,<br>Lead, Zinc. | Quarterly                          | In accordance<br>with the<br>Agency's<br>LFTGN02<br>"Guidance on<br>Monitoring of<br>Landfill<br>Leachate,<br>Groundwater<br>and Surface<br>Water", dated<br>June 2002. | None                    |

| Emission point reference<br>or source or description of<br>point of measurement  | Parameter   | Monitoring<br>frequency | Monitoring<br>standard or<br>method   | Other specifications |
|--|---|-------------------------|---|----------------------|
| PC5.1, PC5.2, PC6.1,<br>PC6.2, PC7, PC8, PC9,<br>PC10.1, PC10.2, PC11.1,<br>PC11.2, PC12.1, PC12.2,<br>GA01, GA02, GA03, GA04<br>(as shown on plan Figure 3<br>of the Groundwater Risk<br>Assessment dated May<br>2003). | Nitrate, Sulphate,<br>COD, BOD, TOC,<br>Alkalinity, Sodium,<br>Potassium,<br>Calcium,<br>Magnesium, Nickel,<br>Manganese,<br>Phenols, GCMS. | Annually                | In accordance<br>with the<br>Agency's<br>LFTGN02<br>"Guidance on<br>Monitoring of<br>Landfill<br>Leachate,<br>Groundwater<br>and Surface<br>Water", dated<br>June 2002. | None                 |
| PC1.1, PC1.2, PC2.1,<br>PC2.2, PC3.1, PC3.2,<br>PC4.1, PC4.2, PC13.1,<br>PC13.2 (as shown on plan<br>Figure 3 of the Groundwater<br>Risk Assessment dated May<br>2003).  | pH, Conductivity,<br>Ammonium,<br>Chloride, Oxidised<br>Carbon, Iron,<br>Cadmium, Copper,<br>Lead, Zinc.                                    | Annually                | In accordance<br>with the<br>Agency's<br>LFTGN02<br>"Guidance on<br>Monitoring of<br>Landfill<br>Leachate,<br>Groundwater<br>and Surface<br>Water", dated<br>June 2002. | None                 |

| Table S4.7 Par  | Table S4.7 Particulate matter in ambient air - limits and monitoring requirements |   |                                      |   | rements   |
|---|---|---|--------------------------------------|---|---|
| Monitoring<br>Point Ref.<br>/Description                      | Parameter   | Limit (Incl.<br>Unit)   | Reference<br>Period                  | Monitoring<br>Frequency                                       | Monitoring Standard or<br>Method  |
| PCASB02,<br>PCASB04,<br>PCASB05                               | Asbestos<br>fibres  | 0.02 fibres/ml  | 4 to 8<br>hours                      | Monthly   | In accordance with the<br>Particulates Monitoring<br>Action Plan dated<br>01/02/2010. |
| PCPM01,<br>PCPM04,<br>PCPM05                                  | Suspended<br>Particulate<br>PM <sub>10</sub>                                      | Not to exceed<br>50 µg/m3<br>more than 35<br>times per<br>annum | Measured<br>as a 24<br>hour mean.    | Annually,<br>unless<br>otherwise<br>agreed in<br>writing with | In accordance with the<br>Particulates Monitoring<br>Action Plan dated<br>01/02/2010. |
|   |   | 40 μg/m <sup>3</sup>  | Measured<br>as an<br>annual<br>mean. | the Agency.   |   |
| PCDS08,<br>PCDS02,<br>PCDS03,<br>PCDS04,<br>PCDS05,<br>PCDS06 | Deposited<br>dust   | 200 mg/m <sup>2</sup>   | Weekly<br>average                    | Weekly  | In accordance with the<br>Particulates Monitoring<br>Action Plan dated<br>01/02/2010. |

## **Schedule 5 - Reporting**

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

| Parameter   | Emission or monitoring<br>point/reference  | Reporting<br>period                                | Period begins                     |
|---|--|--|-----------------------------------|
| Leachate levels<br>As required by condition<br>3.6.1  | Two leachate monitoring points in each hydraulically separate cell.  | Quarterly  | 27/02/2004                        |
| Groundwater<br>Parameters as required<br>by condition 3.6.1   | PC5.1, PC5.2, PC6.1, PC6.2, PC7,<br>PC8, PC9, PC10.1, PC10.2, PC11.1,<br>PC11.2, PC12.1, PC12.2, GA01,<br>GA02, GA03, GA04, PC1.1, PC1.2,<br>PC2.1, PC2.2, PC3.1, PC3.2, PC4.1,<br>PC4.2, PC13.1, PC13.2.  | Quarterly<br>Annually for<br>annual<br>parameters  | 27/02/2004                        |
| Landfill gas surface<br>emissions<br>Parameters as required<br>by condition 3.6.1                         | Permanently and temporary capped zones.  | Annually   | From date of<br>completion of cap |
| Particulate matter<br>Parameters as required<br>by condition 3.6.1  | PCDS08, PCDS02, PCDS03,<br>PCDS04, PCDS05, PCDS06,<br>PCASB02, PCASB04, PCASB05,<br>PCPM01, PCPM04, PCPM05   | Quarterly  | 27/02/2004                        |
| Landfill gas lateral<br>migration<br>Parameters as required<br>by condition 3.6.1                         | PC01a, PC01b, PC02a, PC02b,<br>PC03a, PC03b, PC04a, PC04b,<br>PC05a, PC05b, PC06, PC07, PC08,<br>PC09, PC10a, PC10b, PC11a,<br>PC11b, PC12a, PC12b, PC14,<br>PC15, PC16a, PC16b, PC17,<br>PC18a, PC18b, PC19a, PC19b,<br>PC20, PC21, PC22, PC23. | Quarterly  | 27/02/2004                        |
| Other Landfill gas<br>monitoring<br>Parameters as required<br>by condition 3.6.1                          | All gas monitoring points and all gas extraction points within the cells   | Quarterly<br>Annually for<br>annual<br>parameters  | 27/02/2004                        |
| Other leachate<br>monitoring<br>Parameters as required<br>by condition 3.6.1                              | Collection sump in each hydraulically<br>separate cell (or monitoring point<br>during periods of leachate<br>abstraction).   | Quarterly<br>Annually for<br>annual<br>parameters. | 27/02/2004                        |
| List 1 Screen   | Representative sample from each<br>hydraulically separate cell.  |  |                                   |
| Compliance with<br>leaching and quantity<br>limits for the granular<br>wastes specified in table<br>S3.2. | Limits and quantities as detailed in tables S3.2 and S3.3.   | Annually   | 31/01/2007                        |

| Table S5.2 Annual production/treatment                 |                              |
|--|------------------------------|
| Leachate:  | Cubic metres/year            |
| Disposed of off site;                                  |                              |
| Disposed of to any onsite effluent treatment<br>plant; |                              |
| Recirculated into the waste mass.                      |                              |
| Surface water and/ or groundwater:                     | Cubic metres/year            |
| Disposed of off site;                                  |                              |
| Disposed of to any onsite effluent treatment           |                              |
| plant.   |                              |
| Landfill gas:  | Normalised cubic metres/year |
| combustion in flares;                                  |                              |
| combustion in gas engines;                             |                              |
| Other methods of gas utilisation.                      |                              |

| Table S5.3 Performance Parameters               |                            |              |                    |
|---|----------------------------|--------------|--------------------|
| Parameter                                       | Frequency of<br>assessment | Annual total | Unit               |
| Energy used (including for leachate treatment). | Annually                   |              | MWh of electricity |

| Table S5.4 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.    | 11/02/2010   |
| Groundwater                                       | Form Groundwater 1 or other reporting format to be agreed in writing with the Agency. | 11/02/2010   |
| Landfill gas                                      | Form LFG 1 or other reporting format to be agreed in writing with the Agency.         | 11/02/2010   |
| Particulate matter                                | Form Particulate 1 or other reporting format to be agreed in writing with the Agency. | 11/02/2010   |
| Waste Return                                      | Waste Return Form RATS2E.   |              |
| Landfill topographical surveys and interpretation | Reporting format to be agreed in writing with 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 EP 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 b                             | 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<br>To be notified within 24 hours of detection |  |  |
|--|--|--|
|  |  |  |
| 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<br>rectify, limit or prevent any pollution of the<br>environment which has been or may be caused<br>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 Augean North Limited.

## **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; or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.

"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.

*"EP Regulations"* means The Environmental Permitting (England and Wales) Regulations SI 2007 No.3538 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

*"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.

"Land Protection Guidance" means Agency guidance "H7 - Guidance on the protection of land under the PPC Regime: Application site report and site protection monitoring programme".

"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 affect the agreed design criteria, specification or performance in a way that has a negative effect.

"Notify without delay" and "notified without delay" means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

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

"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 Land Protection Guidance.
- "Technically competent management" and "technical competence" shall have the meanings given to them in the Environmental Protection Act 1990.
- "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, List of Wastes (Northern Ireland) Regulations 2005 (as amended), or The Special Waste Amendment (Scotland) Regulations 2004 as appropriate, and in relation to hazardous waste, includes the asterisk.
- "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