



**ENVIRONMENT  
AGENCY**

## **Permit with introductory note**

**Pollution Prevention and Control (England & Wales) Regulations 2000**

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**Wingmoor Farm Waste Treatment  
Facility**

**Grundon Waste Management  
Limited  
Wingmoor Farm  
Stoke Orchard Road  
Bishop's Cleeve  
Gloucestershire  
GL52 7DG**

**Permit number  
NP3831ST**

# Wingmoor Farm Waste Treatment Facility

## Permit Number NP3831ST

### Introductory note

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

The main features of the installation are as follows. The installation is situated within the boundary of a complex of landfills in a rural area approximately 1km from the village of Bishop's Cleeve. The nearest domestic dwellings are some 250m distant.

The installation treats air pollution control residues, primarily from combustion and incineration processes (fly ash), and bottom ash by mixing it with leachate, other aqueous wastes, contaminated surface water and potable water so that it hardens when deposited in a landfill. This reduces dust emissions and the mobility of potentially polluting materials in the solid waste. When leachate or contaminated water is unavailable, or requires dilution, potable water is used in the process. Following trials to determine process parameters, phosphates will be added to the mixture to reduce the leaching of metals, notably lead, from the finished product in order to comply with the waste acceptance criteria prescribed by the Landfill Directive. The solid wastes received may be hazardous or non-hazardous, depending on their source, hence two activities are listed. The total amount received per year is 75,000 tonnes.

Incoming solid wastes are transferred pneumatically from tankers to one of four storage silos located on a concrete pad. One silo is to be used for storing the phosphate additive. The solid wastes are dispensed by gravity from the silos and mixed, in one of two conditioning units, with the liquid which is pumped from above-ground storage tanks. One tank holds the leachate piped from an adjacent landfill and contaminated water delivered by tanker. A second tank holds potable water which is used in the process for blending with leachate and contaminated water as appropriate. After treatment, the mixture is dropped into dump trucks via a chute and taken to an adjacent landfill.

All surface water arising on the site is collected in two small underground tanks, the first of which acts as a silt trap, and pumped to the storage tanks containing the liquids for treatment. There are no discharges to controlled waters, sewer or groundwater. The mixing process does not constitute a point source of emissions to air. Fugitive emissions may occur from solid waste handling but the silos are fitted with a double filtration system to minimise dust releases as they are filled. Ambient dust levels are monitored. A site management system is in operation but it is not accredited to any external standard. There are no habitats sites within 2km of the installation.

| Status Log of the permit                |                    |                                                                                      |
|-----------------------------------------|--------------------|--------------------------------------------------------------------------------------|
| Detail                                  | Date               | Response Date                                                                        |
| Application NP3831ST                    | Duly made 29/09/05 |                                                                                      |
| Additional Information Received         |                    | 08/02/06; 09/02/06; 13/02/06;<br>21/02/06; 23/02/06; 28/02/06;<br>02/03/06; 09/03/06 |
| Draft published for public consultation | 04/05/06           |                                                                                      |
| Permit determined                       | 14/06/06           |                                                                                      |

**Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation**

| <b>Holder</b>                    | <b>Reference Number</b> | <b>Date of Issue</b> | <b>Fully or Partially Superseded</b> |
|----------------------------------|-------------------------|----------------------|--------------------------------------|
| Grundon Waste Management Limited | 58/316 (48023)          | 01/05/94             | Fully                                |

The waste management licence shall cease to have effect if and to the extent that treatment, keeping or disposal of waste authorised by the licence is authorised by this permit.

**Other existing Licences/Authorisations/Registrations relating to this site**

| <b>Holder</b>           | <b>Reference Number</b> | <b>Date of issue</b> |
|-------------------------|-------------------------|----------------------|
| S. Grundon (Waste) Ltd. | BU3671                  | 16/09/04             |

End of Introductory Note

**Permit**

Pollution Prevention and Control  
(England and Wales) Regulations 2000

## Permit

Permit number

**NP3831ST**

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) hereby authorises

**Grundon Waste Management Limited ("the operator"),**

whose registered office is

**Goulds Grove**

**Ewelme**

**Oxfordshire**

**OX10 6PJ**

company registration number 4245965

to operate an installation at

**Wingmoor Farm Waste Treatment Facility**

**Wingmoor Farm**

**Stoke Orchard Road**

**Bishop's Cleeve**

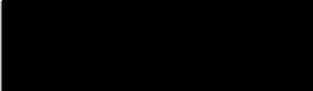
**Gloucestershire**

**GL52 7DG**

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

Signed

Date

|                                                                                     |          |
|-------------------------------------------------------------------------------------|----------|
|  | 14/06/06 |
|-------------------------------------------------------------------------------------|----------|

  
Authorised to sign on behalf of the Agency

# 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 Energy efficiency

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures by a review.

### 1.4 Efficient use of raw materials

1.4.1 The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every 4 years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

- (d) take any appropriate further measures identified by a review.

## **1.5 Avoidance, recovery and disposal of wastes produced by the activities**

### **1.5.1 The operator shall:**

- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
- (b) review and record at least every 4 years whether changes to those measures should be made; and
- (c) take any further appropriate measures identified by a review.

## **1.6 Site security**

- 1.6.1 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").
- 2.1.2 Where there are wastes on site that are not subject to this permit then the wastes subject to the activities authorised under condition 2.1.1, shall be clearly identified.

## **2.2 The site**

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in red on the site plan at schedule 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.
- 2.3.2 No raw materials or fuels listed in schedule 3 table S3.1 shall be used unless they comply with the specifications set out in that table.
- 2.3.3 Waste shall only be accepted if:
  - (a) it is of a type and quantity listed in schedule 3 table S3.2; and
  - (b) it conforms to the description in the documentation supplied by the producer and holder.
  - (c) it is only processed in the activity specified in Table S1.1 of Schedule 1.
- 2.3.4 Records shall be kept of all waste accepted onto the site.

- 2.3.5 The Operator shall ensure that where waste produced at the Permitted Installation(s) is sent to a waste recovery or disposal facility, the facility in question is provided with the following information, prior to receipt of the waste:
- The nature of the process producing the waste
  - The composition of the waste
  - The handling requirements of the waste
  - The hazard classification associated with the waste
  - The waste code of the waste
- 2.3.6 The Operator shall ensure that where waste produced at the Permitted Installation is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.7 Measures shall be implemented and maintained throughout the operational life of the installation to control and monitor the presence of pests on the installation. Such measures shall prevent pests being attracted to the installation that are likely to:
- (a) cause harm to human health or the quality of the environment,
  - (b) cause offence to any human senses,
  - (c) result in damage to material property, or impair or interfere with amenities and other legitimate uses of the environment.
- 2.3.8 Measures shall be implemented and maintained throughout the operational life of the installation to control and monitor the presence of scavenging birds and other scavengers on the installation. Such measures shall prevent scavenging birds and other scavengers from gathering on operational areas or scavenging wastes in a manner likely to
- (a) cause harm to human health or the quality of the environment,
  - (b) cause offence to any human senses,
  - (c) result in damage to material property, or impair or interfere with amenities and other legitimate uses of the environment.

## **2.4 Off-site conditions**

- 2.4.1 There are no off-site conditions under this section.

## **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 There are no pre-operational conditions in this permit.

## **2.7 Closure and decommissioning**

- 2.7.1 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.
- 2.7.2 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 to a satisfactory state.
- 2.7.3 The operator shall carry out and record a review of the site closure plan at least every 4 years.
- 2.7.4 The site closure plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the activities or part thereof.

## **2.8 Site protection and monitoring programme**

- 2.8.1 The operator shall, within 2 months of the issue of this permit, submit a site protection and monitoring programme.
- 2.8.2 The operator shall implement and maintain the site protection and monitoring programme and shall carry out and record a review of it at least every 4 years.

# **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 tables S4.1, S4.2 and S4.3.
- 3.1.2 The limits given in schedule 4 shall not be exceeded.

## **3.2 Transfers off-site**

- 3.2.1 Records of all the wastes sent off site from the activities, for either disposal or recovery, shall be maintained.

## **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.

### **3.4 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) point source emissions specified in table S4.1, 4.2 and 4.3;
  - (b) ambient air monitoring specified in table S4.7; and
- 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 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing by the Agency.
- 3.6.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 4 tables S4.1, S4.2 and S4.3 unless otherwise specified in that schedule.
- 3.6.5 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 site protection and monitoring programme.

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 assessment of the impact of the emissions 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 annual production /treatment data set out in schedule 5 table S5.2;
- (d) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 of that schedule; and
- (e) details of any contamination or decontamination of the site which has occurred.

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.

- 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
- 4.2.6 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 activities;
  - (b) cessation of operation of part or all of the activities for a period likely to exceed 1 year; and
  - (c) resumption of the operation of part or all of the activities after a cessation notified under (b) above.
- 4.3.4 The Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 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 and WFD Annex IIA and IIB descriptions       | Limits of specified activity and waste types                                                                    |
|------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| S5.3 A1 (a)                                          | Storing, mixing and blending solid and liquid wastes (hazardous). D9, D15.     | From receipt of wastes to dispatch of treated material. Waste types to be as specified in Schedule 3 table 3.2. |
| S5.3 A1 (c) (ii)                                     | Storing, mixing and blending solid and liquid wastes (non-hazardous). D9, D15. | From receipt of wastes to dispatch of treated material. Waste types to be as specified in Schedule 3 table 3.2. |

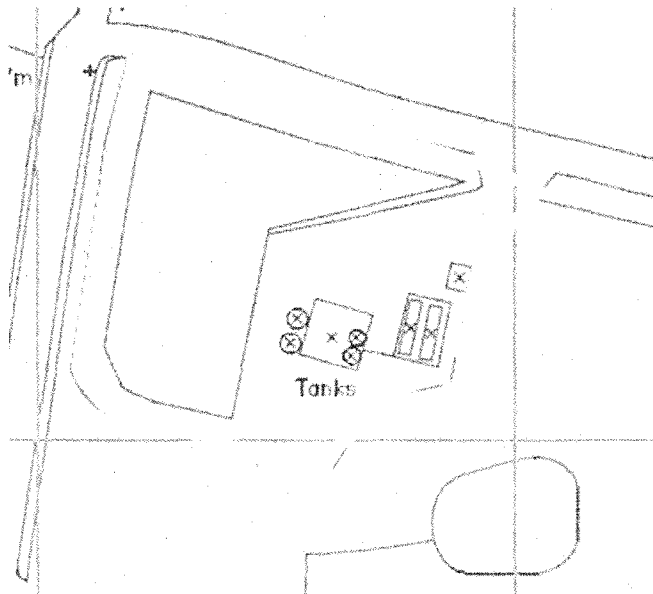
Table S1.2 Operating techniques

| Description                                                          | Parts                                                                                                                                                                                                                               | Date Received                                                                  |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Application                                                          | The response to sections 2.1 and 2.2 in the Application, excluding references to phosphoric acid. References to the Waste Management Licence Working Plan, May 2005, shall be read as references to the Working Plan, February 2006 | 29/09/05                                                                       |
| Documents submitted in response to requests for further information. | All, apart from the Waste Management Licence Working Plan, May 2005                                                                                                                                                                 | 08/02/06; 09/02/06; 13/02/06; 21/02/06; 23/02/06; 28/02/06; 02/03/06; 09/03/06 |
| Working Plan, February 2006                                          | All                                                                                                                                                                                                                                 | 23/02/06                                                                       |

Table S1.3 Improvement programme requirements

| Reference | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date     |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| IC1       | The Operator shall propose to the Agency measures to improve the concrete underlying the installation, the surface drains within it and the bunding surrounding it, having regard to the Guidance Note S5.06, December 2004. The Operator shall implement such measures as are approved by the Agency to a timetable approved by the Agency.                                                                                                                                                                                                                 | 01/09/06 |
| IC2       | The Operator shall submit in writing to the Agency proposals to remove and replace the single-skinned underground storage tanks and shall implement such proposals as are agreed with the Agency to a timetable agreed with the Agency.                                                                                                                                                                                                                                                                                                                      | 01/09/06 |
| IC3       | The Operator shall submit to the Agency for approval written proposals for investigations, including full-scale trials, into the use of granular phosphate salts for the reduction of metals leaching from the treated product. The Operator shall report the results of such investigations to the Agency in writing and shall implement such measures as these results indicate to be appropriate, to a timescale and in the manner to be agreed with the Agency                                                                                           | 01/12/06 |
| IC4       | The Operator shall review the off-site monitoring of particulates around the installation, having regard to Technical Guidance Document M17, "Monitoring of particulate matter in ambient air around waste facilities", March 2004, ensuring that adequate monitoring is in place to detect any emissions travelling from the site in the direction of Bishop's Cleeve. The Operator shall submit proposals for improvements to the Agency in writing and shall implement such measures as are approved by the Agency to a timescale agreed with the Agency. | 01/12/06 |
| IC5       | The Operator shall submit a report in writing to the Agency demonstrating to the Agency's satisfaction that the use of oily water from interceptors (13 05 07*) in the treatment process has no adverse effect on the hardening of the processed wastes or on the behaviour of such wastes when landfilled.                                                                                                                                                                                                                                                  | 01/09/06 |

## Schedule 2 - Site plan



## Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels

| Raw materials and fuel description     | Specification                                                                                                                                                                                |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Landfill leachate                      | Leachate composition shall be reported quarterly, in the manner agreed with the Agency, for the following determinands: ammonia; chloride; lead; zinc; 2,2-dichloropropane; mercury; nickel. |
| Oily water from oil/water interceptors | The oil content shall not exceed 20,000mg/l                                                                                                                                                  |

Table S3.2 Permitted waste types and quantities for storage, mixing and blending

| Maximum quantity | Solid wastes: 75,000 tonnes per annum; liquid wastes: 50,000 tonnes per annum                |
|------------------|----------------------------------------------------------------------------------------------|
| Waste code       | Description                                                                                  |
| 07 01 01*        | Aqueous washing liquids and mother liquors                                                   |
| 07 02 01*        | Aqueous washing liquids and mother liquors                                                   |
| 07 03 01*        | Aqueous washing liquids and mother liquors                                                   |
| 07 04 01*        | Aqueous washing liquids and mother liquors                                                   |
| 07 05 01*        | Aqueous washing liquids and mother liquors                                                   |
| 07 06 01*        | Aqueous washing liquids and mother liquors                                                   |
| 07 07 01*        | Aqueous washing liquids and mother liquors                                                   |
| 08 03 08         | Aqueous liquid waste containing ink                                                          |
| 08 03 12*        | Waste ink containing dangerous substances                                                    |
| 08 03 13         | Waste ink other than those mentioned in 08 03 12                                             |
| 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 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 15         | Bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14 |
| 10 01 16*        | Fly ash from co-incineration containing dangerous substances                                 |
| 10 01 17         | Fly ash from co-incineration other than those mentioned in 10 01 16                          |
| 10 02 07*        | Solid wastes from gas treatment containing dangerous substances                              |
| 10 02 08         | Solid wastes from gas treatment other than those mentioned in 10 02 07                       |
| 10 03 19*        | Flue gas dust containing dangerous substances                                                |
| 10 03 20         | Flue gas dust other than those mentioned in 10 03 19                                         |
| 10 03 23*        | Solid wastes from gas treatment containing dangerous substances                              |
| 10 03 24         | Solid wastes from gas treatment other than those mentioned in 10 03 23                       |
| 10 04 04*        | Flue gas dust                                                                                |
| 10 04 06*        | Solid wastes from gas treatment                                                              |
| 10 05 03*        | Flue gas dust                                                                                |
| 10 05 05*        | Solid waste from gas treatment                                                               |
| 10 06 03*        | Flue gas dust                                                                                |
| 10 06 06*        | Solid wastes from gas treatment                                                              |
| 10 07 03         | Solid wastes from gas treatment                                                              |
| 10 08 15*        | Flue gas dust containing dangerous substances                                                |
| 10 08 16         | Flue gas dust other than those mentioned in 10 08 15                                         |
| 10 09 09*        | Flue gas dust containing dangerous substances                                                |
| 10 09 10         | Flue gas dust other than those mentioned in 10 09 09                                         |
| 10 10 09*        | Flue gas dust containing dangerous substances                                                |
| 10 10 10         | Flue gas dust other than those mentioned in 10 10 09                                         |
| 10 11 15*        | Solid wastes from flue gas treatment containing dangerous substances                         |
| 10 11 16         | Solid wastes from flue gas treatment other than those mentioned in 10 11 15                  |
| 10 12 09*        | Solid wastes from gas treatment containing dangerous substances                              |
| 10 12 10         | Solid wastes from gas treatment other than those mentioned in 10 12 09                       |
| 10 13 12*        | Solid wastes from gas treatment containing dangerous substances                              |
| 10 13 13         | Solid wastes from gas treatment other than those mentioned in 10 13 12                       |
| 11 01 11*        | Aqueous rinsing liquids containing dangerous substances                                      |

Table S3.2 Permitted waste types and quantities for storage, mixing and blending

| Maximum quantity | Solid wastes: 75,000 tonnes per annum; liquid wastes: 50,000 tonnes per annum                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------|
| Waste code       | Description                                                                                                        |
| 11 01 12         | Aqueous rinsing liquids other than those mentioned in 11 01 12                                                     |
| 11 05 02         | Zinc ash                                                                                                           |
| 11 05 03*        | Solid waste from gas treatment                                                                                     |
| 12 03 01*        | Aqueous washing liquids                                                                                            |
| 13 05 07*        | Oily water from oil/water separators                                                                               |
| 16 10 01*        | Aqueous liquid wastes containing dangerous substances                                                              |
| 16 10 02         | Aqueous liquid wastes other than those mentioned in 16 01 01                                                       |
| 19 01 06*        | Aqueous liquid wastes from gas treatment and other aqueous liquid wastes                                           |
| 19 01 07*        | Solid wastes from gas treatment                                                                                    |
| 19 01 11*        | Bottom ash and slag containing dangerous substances                                                                |
| 19 01 12         | Bottom ash and slag other than those mentioned in 19 01 11                                                         |
| 19 01 13*        | Fly ash containing dangerous substances                                                                            |
| 19 01 14         | Fly ash other than those mentioned in 19 01 13                                                                     |
| 19 01 15*        | Boiler dust containing dangerous substances                                                                        |
| 19 01 16         | Boiler dust other than those mentioned in 19 01 16                                                                 |
| 19 04 02*        | Fly ash and other flue gas treatment wastes                                                                        |
| 19 07 02*        | Landfill leachate containing dangerous substances                                                                  |
| 19 07 03         | Landfill leachate other than those mentioned in 19 07 02                                                           |
| 19 10 03*        | Fluff-light fraction and dust containing dangerous substances                                                      |
| 19 10 04         | Fluff-light fraction and dust other than those mentioned in 19 10 03                                               |
| 19 11 03*        | Aqueous liquid wastes                                                                                              |
| 19 13 07*        | Aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances        |
| 19 13 08         | Aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07 |

## Schedule 4 – Emissions and monitoring

**Table S4.1 Point source emissions to air – emission limits and monitoring requirements**

| Emission point ref. & location               | Parameter    | Source                                         | Limit (including unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|----------------------------------------------|--------------|------------------------------------------------|------------------------|------------------|----------------------|-------------------------------|
| A1 [Point A1 on drawing WTF6 in application] | Visible dust | Storage silo via primary and secondary filters | None visible           | During filling   | –                    | Visual inspection             |
| A2 [Point A2 on drawing WTF6 in application] | Visible dust | Storage silo via primary and secondary filters | None visible           | During filling   | –                    | Visual inspection             |
| A3 [Point A3 on drawing WTF6 in application] | Visible dust | Storage silo via primary and secondary filters | None visible           | During filling   | –                    | Visual inspection             |
| A4 [Point A4 on drawing WTF6 in application] | Visible dust | Storage silo via primary and secondary filters | None visible           | During filling   | –                    | Visual inspection             |

**Table S4.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements**

| Emission point ref. & location | Parameter | Source | Limit (incl. unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|--------------------------------|-----------|--------|--------------------|------------------|----------------------|-------------------------------|
| N/A                            |           |        |                    |                  |                      |                               |

**Table S4.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements**

| Emission point ref. & location | Parameter | Source | Limit (incl. Unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|--------------------------------|-----------|--------|--------------------|------------------|----------------------|-------------------------------|
| N/A                            |           |        |                    |                  |                      |                               |

Table S4.7 Ambient air monitoring requirements

| Location or description of point of measurement <sup>1</sup> | Parameter                | Monitoring frequency | Monitoring standard or method | Other specifications                            |
|--------------------------------------------------------------|--------------------------|----------------------|-------------------------------|-------------------------------------------------|
| DM1 on drawing WTF2a                                         | PM <sub>10</sub>         | Continuous           | As agreed with the Agency     | Data to be presented as 24 hour running average |
| DM1 on drawing WTF2a                                         | Total particulate matter | Continuous           | As agreed with the Agency     | Data to be presented as 24 hour running average |
| DM2 on drawing WTF2a                                         | PM <sub>10</sub>         | Continuous           | As agreed with the Agency     | Data to be presented as 24 hour running average |
| DM2 on drawing WTF2a                                         | Total particulate matter | Continuous           | As agreed with the Agency     | Data to be presented as 24 hour running average |
| DM5 on drawing WTF2a                                         | PM <sub>10</sub>         | Continuous           | As agreed with the Agency     | Data to be presented as 24 hour running average |
| DM5 on drawing WTF2a                                         | Total particulate matter | Continuous           | As agreed with the Agency     | Data to be presented as 24 hour running average |
| DM7 on drawing WTF2a                                         | PM <sub>10</sub>         | Continuous           | As agreed with the Agency     | Data to be presented as 24 hour running average |
| DM7 on drawing WTF2a                                         | Total particulate matter | Continuous           | As agreed with the Agency     | Data to be presented as 24 hour running average |
| DM8 on drawing WTF2a                                         | PM <sub>10</sub>         | Continuous           | As agreed with the Agency     | Data to be presented as 24 hour running average |
| DM8 on drawing WTF2a                                         | Total particulate matter | Continuous           | As agreed with the Agency     | Data to be presented as 24 hour running average |

Note 1: Or at any other location as agreed with the Agency

Table S4.8 Process monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter         | Monitoring frequency | Monitoring standard or method | Other specifications                                                                                       |
|---------------------------------------------------------------------------|-------------------|----------------------|-------------------------------|------------------------------------------------------------------------------------------------------------|
| A1,A2,A3,A4                                                               | Filter efficiency | Biannually           | None specified                | The performance of the filters shall be at least as good as the specification provided by the manufacturer |

## 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 |
|-----------------------------------------------------------------------------------------|----------------------------------------|------------------|---------------|
| Ambient air monitoring: total particulates<br>Parameters as required by condition 3.6.1 | DM1, DM2, DM5, DM7, DM8                | Monthly          | 01/06/06      |
| Ambient air monitoring: PM <sub>10</sub><br>Parameters as required by condition 3.6.1.  | DM1, DM2, DM5, DM7, DM8                | Monthly          | 01/06/06      |

**Table S5.2: Annual production/treatment**

| Parameter     | Units  |
|---------------|--------|
| Solid wastes  | tonnes |
| Liquid wastes | tonnes |

**Table S5.3 Performance parameters**

| Parameter    | Frequency of assessment | Units  |
|--------------|-------------------------|--------|
| Water usage  | Annually                | tonnes |
| Energy usage | Annually                | MJ     |

**Table S5.4 Reporting forms**

| Media/parameter | Reporting format                                                   | Date of form |
|-----------------|--------------------------------------------------------------------|--------------|
| Air             | Form air 1 or other form as agreed in writing by the Agency        | 14/06/06     |
| Water usage     | Form water usage1 or other form as agreed in writing by the Agency | 14/06/06     |
| Energy usage    | Form energy 1 or other form as agreed in writing by the Agency     | 14/06/06     |
| Waste return    | Form WPPCS1                                                        | 14/06/06     |

## Schedule 6 - Notification

These pages outline the information that the operator must provide.

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

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

### Part A

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

|                                                                                                                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>(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</b> |  |
| <b>To be notified within 24 hours of detection</b>                                                                                                                                                        |  |
| 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>(b) Notification requirements for the breach of a limit</b>                      |  |
| <b>To be notified within 24 hours of detection unless otherwise specified below</b> |  |
| 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 |
| N/A                                                                      |                     |
|                                                                          |                     |
|                                                                          |                     |

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

### Part B - to be submitted as soon as practicable

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

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

\* authorised to sign on behalf of Grundon Waste Management Limited

## Schedule 7 - Interpretation

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

"*accident management plan*" means a documented procedure (or procedures) that set out the measures necessary to prevent accidents occurring within the permitted installation, during both normal and abnormal operations, and limit the consequences to human health or the environment of any such accidents that do occur.

"*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.

"*disposal*" shall mean any of the operations provided for in Annex IIA to Directive 75/442/EEC.

"*emissions to land*", includes emissions to groundwater.

"*fugitive emission*" means an emission to air, water or land from the activities which is not controlled by an emission limit.

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

"*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".

"*MCERTS*" means the Environment Agency's Monitoring Certification Scheme.

"*notify/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.

"*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, 1 April, 1 July or 1 October.

"*recovery*" shall mean any of the operations provided for in Annex IIB to Directive 75/442/EEC.

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

"*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, as appropriate, and in relation to hazardous waste, includes the asterisk.

*"WFD"* means Waste Framework Directive (75/442/EEC).

*"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:

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

END OF PERMIT