

Headquarters,
P.O. Box 3000,
Johnstown Castle Estate
County Wexford, Ireland

WASTE LICENCE

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| Waste Licence | 3-2 |
| Register Number: | |
| Licensee: | South Dublin County Council |
| Location of Facility: | Ballymount Road, Walkinstown, Dublin 12. |

Introduction

This introduction is not part of the licence and does not purport to be a legal interpretation of the licence.

This licence is for the operation of a municipal waste baling station prior to transport to landfill for disposal and also for the operation of a waste facility for the collection of recyclable and non-recyclable waste (Civic Waste Facility). Until both the management structure, the duty and standby plant and the ventilation system specified by the EPA are in place, the operating hours of the baling station shall be limited to 7.30 to 18.30 Monday to Saturday. In twelve months time, when the systems specified are in place, the baling station can operate up to 24 hours per day, seven days a week. The Civic Waste Facility may be operated between 8.00 and 18.00 Monday to Saturday. The Civic Waste Facility can be operated between 8.00 and 18.00 on Sundays once the requirements referred to above are in place. Excluding the Civic Waste Facility the quantity of waste that can be accepted at the facility is limited to 350,000 tonnes per annum.

The licensee must manage and operate the facility to ensure that the activities do not cause environmental pollution (which includes nuisances such as odour, noise etc.). The licensee has to carry out regular environmental monitoring and submit all monitoring results and reports on the development, operation and management of the facility, to the Agency. The conditions of this licence set out in detail the legal constraints under which South Dublin County Council is allowed to operate and manage Ballymount Baling Station.

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Reasons for the Decision

The Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence any emissions from the activity will comply with and not contravene any of the requirements of Section 40(4) of the Waste Management Act, 1996.

In reaching this decision the Agency has considered the application and supporting documentation received from the applicant, all submissions and objections received and the reports of its inspectors.

Part I: Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Environmental Protection Agency (the Agency), under Section 46(2) of the said Act, hereby grants this Waste Licence to South Dublin County Council to carry on the waste activities listed below at Ballymount Baling Station, Ballymount Road, Walkinstown, Dublin 12 subject to eleven Conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

Licensed waste disposal activities, in accordance with the Third Schedule of the Waste Management Act, 1996

Class 12: Repackaging prior to submission to any activity referred to a preceding paragraph of this Schedule.

This activity is limited to the baling of municipal waste (MW).

Class 13: Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

This activity is limited to the storage of waste prior to transporting it to an appropriate facility/facilities.

Licensed waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996

Class 3: Recycling or reclamation of metals and metal compounds.

This activity is limited to the collection of materials in the civic amenity facility.

Class 4: Recycling or reclamation of other inorganic materials.

This activity is limited to the collection of materials in the Civic Waste Facility.

Class 13: Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

This activity is limited to the temporary storage of recoverable materials prior to transport to another appropriate facility.

INTERPRETATION

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| Act | The Waste Management Act, 1996 (No. 10 of 1996). |
| Adequate lighting | 20 lux measured at ground level. |
| Agency | Environmental Protection Agency |
| Agreement | Agreement in writing. |
| Attachment | Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application. |
| Application | The application by the licensee for this waste licence, including any other material submitted to the Agency in writing by the licensee between the date of the application and the date of grant of this licence. |
| Annually | Once during each period of from 1 st January to 31 st December inclusive. |
| Appropriate facility | A waste management facility, duly authorised under relevant law and technically suitable. |
| Biodegradable waste | Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food and garden waste, and paper and paperboard. |
| Bund | A structure to provide containment for any loss of liquid from a storage tank and associated pipework. The Agency's Landfill Design Manual (draft) sets forth design criteria. |
| Commercial waste | As defined in Section 5 (1) of the Act. |
| Condition | A condition of this licence. In any case where this licence refers to a numbered condition, the reference shall be taken to mean the condition and any sub-condition therein which the context of the reference requires that reference is made to. |
| Containment boom | A boom which can contain spillages and prevent these from entering drains or watercourses. |
| Daily | Consecutive 24 hour periods |
| Day | A period from 0.00 hours to 2400 hours. |
| Daytime | 8.00 a.m. to 10.00 p.m. |
| Documentation | Any report, record, result, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence |
| Drawing | Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence. |

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| Emission | As defined in Section 5 (1) of the Act. |
| Emission Limit Value | Those limits, including concentration limits and deposition levels established in Schedule F. |
| Environmental Pollution | As defined in Section 5 (1) of the Act. |
| European Waste Catalogue (EWC) | The EWC is a harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 94/3/EC and any subsequent amendment published in the Official Journal of the European Community. |
| Facility | That area or areas defined under Condition 1.2 |
| Green waste | Waste wood, plant matter and other vegetation. |
| Hazardous Waste | As defined in Section 4 (2) of the Act. |
| Household Waste | As defined in Section 5 (1) of the Act. |
| Incident | Any reference to an incident in this licence means an incident as defined in Condition 3.1. |
| Industrial waste | As defined in Section 5 (1) of the Act. |
| Impulsive Noise | As defined in British Standard BS 4142, 1990. "Method for rating industrial noise affecting mixed residential and industrial areas". |
| Instruction | Instruction in writing |
| Licence | A Waste Licence issued in accordance with the Act. |
| Licensee | South Dublin County Council |
| List I/II Organics | Substances classified pursuant to EC Directives 76/464/EEC and 80/68/EEC |
| Liquid Waste | Any waste in liquid form and containing less than 2% dry matter |
| Maintain | Keep in a fit state, including such regular inspection, servicing and repair as may be necessary to adequately perform its function. |
| Mobile Plant | Self-propelled machinery used for the emplacement of wastes or for the construction of specified engineering works |
| Monthly | At least 12 times per year, at approximately monthly intervals. |
| Municipal Waste | Municipal waste as defined in Section 5 (1) of the Act. |
| Night-time | 10.00 p.m. to 8.00 a.m. |
| Noise Sensitive Location (NSL) | Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels. |

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| Non-hazardous waste | Non-Hazardous Waste is any waste which is not a hazardous waste as defined in the Act. |
| Oil Separator | Device installed according to the draft European Standard prEN 858 (Installations for the separation of light liquids, eg. oil and petrol). |
| Putrescible waste | Waste which is readily biodegradable such as vegetable matter, green waste, etc. |
| Quarterly | At least four times per year, at approximately three monthly intervals. |
| Recovery | As defined in Section 4 (4) of the Act. |
| Sample(s) | Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments |
| Sanitary Authority | South Dublin County Council |
| Specified Emissions | Those emissions listed in Schedule F: Emission Limits of this licence. |
| Specified Engineering Works | Those engineering works listed in Schedule D: Specified Engineering Works of this licence. |
| Submit | Unless the context of this licence indicates otherwise, submit to the Agency in writing for agreement |
| Trade Effluent | As defined in the Local Government (Water Pollution) Act, 1977. |
| Trigger Level | A parameter value which when achieved or exceeded requires certain actions to be taken. |
| Waste | As defined in Section 4(1) of the Act. |
| Waste disposal activity | Includes the activities referred to in Section 4 of the Act and listed in the Third Schedule thereto. |
| Waste recovery activity | Includes the activities referred to in Section 4 of the Act and listed in the Fourth Schedule thereto. |
| Weekly | During all weeks of plant operation, and in the case of emissions, when emissions are taking place; with no more than one measurement in any one week. |
| White Goods | Refrigerators, cookers, ovens and other similar appliances. |
| Operational Day of Facility | 11 hours a day until 31 st January 2002 and thereafter 24 hours a day (subject to the requirements of Condition 5.6). |
| Working Day (Environmental Protection Agency) | 9.00 a.m. to 5.30 p.m. Monday to Friday. |

Part II: CONDITIONS

CONDITION 1 SCOPE

- 1.1 Waste activities at the facility shall be restricted to those listed and described in Part 1 and required by this licence.
- 1.2 Waste activities shall be restricted to the area of land outlined in red on Drawing No. 9805401 01 Rev. C of the application dated September 1999. Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3 Every plan, programme or proposal submitted to the Agency for agreement pursuant to any condition of this licence shall include a proposed timescale for its implementation. The Agency may modify or alter any such plan, programme or proposal in so far as it considers such modification or alteration to be necessary. Every plan, programme or proposal shall be carried out within the timescale fixed by the Agency but shall not be undertaken without the agreement of the Agency.
- 1.4 This licence is for the purposes of waste licensing under the Waste Management Act 1996 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.5 Where the Agency considers that a non-compliance with the Conditions of this licence has occurred, it may serve a notice on the licensee specifying:
 - a) that only those wastes as specified, if any, in the notice are to be accepted at the facility after the date set down in the notice;
 - b) that the licensee shall undertake the works stipulated in the notice, and/or otherwise comply with the requirements of the notice as set down therein, within the time-scale contained in the notice; and,
 - c) that the licensee shall carry out any other requirement specified in the notice.

When the notice has been complied with, the licensee shall provide written confirmation that the requirements of the notice have been carried out. No waste, other than that which is stipulated in the notice, shall be accepted at the facility until written confirmation is received from the Agency that the notice is withdrawn.
- 1.6 This licence is being granted in substitution for the waste licence granted to the licensee on 7th October, 1998 and bearing Waste Licence Register No: W003. The previous waste licence (Register No. W003) is superseded by this licence.

Reason: *To clarify the scope of this licence.*

CONDITION 2 MANAGEMENT OF THE ACTIVITY

- 2.1 Environmental Management System
 - 2.1.1 The licensee shall within six months from the date of grant of this licence, submit to the Agency for its agreement amendments to the Environmental Management System (EMS) for the facility to reflect the requirements of this

licence. Following the agreement of the Agency, the licensee shall establish and maintain such a system. The EMS shall be updated on an annual basis with amendments being submitted to the Agency for agreement.

2.1.2 The EMS shall include as a minimum the following elements:

i. Schedule of Environmental Objectives and Targets

The Schedule shall address a five year period as a minimum and shall be reviewed and submitted annually to the Agency for its agreement. The objectives should be specific and the targets measurable.

ii. Environmental Management Programme (EMP)

The EMP shall include a time-scale for achieving the Schedule of Objectives and Targets and shall comply with any other guidance issued by the Agency. The EMP shall include, as a minimum, the information specified in *Schedule A: Content of the Environmental Management Programme*. The EMP shall be reviewed and submitted to the Agency for its agreement annually.

iii. Corrective Action

Corrective Action Procedures shall ensure that corrective action is taken should specified requirements to this licence not be fulfilled.

iv. Awareness and Training

Awareness and Training Procedures shall identify training needs and provide appropriate training for personnel whose work is related to the licensed facility. Written records of training shall be maintained.

v. Communications

Within three months from the date of grant of this licence, the licensee shall submit for agreement to the Agency a Communications Programme to ensure that members of the public can obtain information concerning the environmental performance of the facility at all reasonable times. The communications programme shall provide for liaison with local residents' associations.

2.2 Management Structure

The licensee shall submit written details of the management structure of the facility for the agreement of the Agency. Any proposed changes in the management structure shall be submitted in writing to the Agency for its agreement. Written details of the management structure shall include the following information:

- a) the names of all persons who are to provide the management and supervision of the waste activities authorised by the licence;
- b) a named contact person for communications with the Sanitary Authority;
- c) details of the responsibilities for each individual named under a) above;
- d) details of the relevant experience, competence and qualifications held by each of the persons nominated under a) above; and
- e) contingency arrangements for the absences of the named persons from the facility.

- 2.3 Annual Environmental Report
- 2.3.1 The licensee shall submit to the Agency for its agreement, within thirteen months from the date of grant of this licence, and within one month of the end of the year thereafter, an Annual Environmental Report (AER).
- 2.3.2 The AER shall include as a minimum the information specified in *Schedule B: Content of Annual Environmental Report* and shall be prepared in accordance with any relevant written guidance issued by the Agency.
- 2.4 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a suitably qualified and experienced deputy, shall be present at all times during the operation of the facility.
- 2.5 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and/or experience, as required and shall be aware of the requirements of this licence.

Reason: *To make provision for the proper management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.*

CONDITION 3 NOTIFICATION AND RECORD KEEPING

- 3.1 The licensee shall make written records of the following incidents:
- any nuisance caused by the activity;
 - any emission which does not comply with the requirements of this licence;
 - any trigger level specified in this licence which is attained or exceeded;
 - any indication that environmental pollution has, or may have, taken place;
 - any emergency.
- 3.2 The written record shall include all aspects described in Condition 10.6(a-e).
- 3.3 Unless otherwise instructed in writing by the Agency, the licensee shall:
- notify the Agency as soon as practicable and in any case not later than 10.00 a.m. the following working day after the occurrence of any incident;
 - submit the written record required by this condition to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident; and
 - in the event of any incident which relates to discharges to surface water or sewer, notify the Eastern Regional Fisheries Board and/or the Sanitary Authority as soon as practicable and in any case not later than 10.00 a.m. on the following working day after such an incident.
- 3.4 Should any further actions be taken after the date of written notification, as a result of an incident occurring, the licensee shall forward a written report of those actions to the Agency as soon as practicable and no later than ten days after the initiation of those actions.

- 3.5 Unless otherwise agreed by the Agency, all documentation submitted to the Agency shall:
- (a) be sent to the Agency's headquarters;
 - (b) comprise one original and three copies;
 - (c) be formatted in accordance with any written instruction or guidance issued by the Agency;
 - (d) include whatever information as is specified in writing by the Agency;
 - (e) be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
 - (f) be submitted in accordance to the relevant reporting frequencies specified by this licence; and
 - (g) in the case of results of any environmental monitoring, be accompanied by a written interpretation setting out their significance.
- 3.6 Copies of all environmental monitoring data obtained by the licensee which relates to the facility shall be forwarded to the Agency at the frequencies set out *in Schedule C: Recording and Reporting* to the Agency of this licence.
- 3.7 Unless otherwise agreed with the Agency, all documentation and records required to be made under this licence, shall be retained by the licensee.
- 3.8 The licensee shall provide additional copies of any documentation and records referred to in this licence to the Agency upon written request, within the time specified in writing by the Agency.
- 3.9 The licensee shall keep the following documents at the facility office referred to in Condition 4.5.
- a) the current waste licence relating to the facility and the previous licence;
 - b) the current EMS for the facility;
 - c) the previous year's AER for the facility;
 - d) all written procedures produced by the licensee which relate to the licensed activities.
- 3.10 The licensee shall maintain a written record, or a record in a format to be agreed with the Agency, for each load of waste arriving at and departing from the facility, excluding those goods arriving at the Civic Waste Facility. The licensee shall record the following:
- a) the name of the carrier;
 - b) the vehicle registration number;
 - c) the name of the producer(s)/collector(s) of the waste as appropriate;
 - d) a description of the waste;
 - e) the quantity of the waste accepted at the facility, recorded in tonnes;
 - f) the name of the person checking the load;
 - g) where loads or wastes are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed;
 - h) the quantity of waste leaving the facility, recorded in tonnes;

- i) the destination of the load; and
 - j) any other information which might be required from time to time subject to prior agreement with the Agency.
- 3.11 The licensee shall maintain a written record of the type and quantity, recorded in tonnes, of all waste recovered or disposed of at the facility.
- 3.12 The licensee shall maintain a written record of all complaints relating to the operation of the activity. Each such record shall give details of the following:
- a) date and time of the complaint;
 - b) the name of the complainant;
 - c) details of the nature of the complaint;
 - d) actions taken on foot of the complaint and the results of such actions; and,
 - e) the response made to each complainant.
- 3.13 The licensee shall maintain service and maintenance records and schedules for all waste processing and ventilation plant.

Reason : *To provide for the notification of incidents, to update information on the activity and to provide for the keeping of records.*

CONDITION 4 SITE INFRASTRUCTURE

- 4.1 The licensee shall establish all infrastructure referred to in this licence prior to the commencement of the licensed activities or as instructed by the Agency.
- 4.2 Site Notice Board
- 4.2.1 The licensee shall provide and maintain a Site Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the identification board shall be 1200 mm by 750 mm.
- 4.2.2 The board shall clearly show:
- a) the name and telephone number of the facility;
 - b) the normal hours of opening;
 - c) the name, address and telephone number of the licence holder;
 - d) an emergency out of hours contact telephone number;
 - e) the name, address and telephone number of the operator of the facility;
 - f) the licence reference number;
 - g) where and when environmental monitoring information relating to the facility can be obtained.
- 4.3 Site Security
- 4.3.1 2.3m high steel palisade fencing and similar security gates shall be installed and maintained as described in Attachment D.1.a of the application. The security fence and gates shall be at the locations shown on Drawing No. 9805401 01 Rev. C of September 1999. The base of the fencing shall be set in the ground.
- 4.3.2 The licensee shall remedy any defect in the gates and/or fencing as follows:

- a) a temporary repair shall be made by the end of the operational day; and,
- b) a repair to the standard of the original gates and/or fencing shall be undertaken within three operational days or as otherwise agreed with the Agency.

4.3.3 Gates shall be locked shut when the facility is unsupervised.

4.4 Site Roads and Hardstanding

4.4.1 Effective site roads, including an access road to the civic amenity facility shall be provided and maintained as shown in Drawing No. 9805401 01 Rev. C of September 1999 to ensure the safe movement of vehicles within the facility.

4.4.2 The hard standing areas of the facility shall be maintained by the licensee.

4.5 The licensee shall provide and maintain an office on the facility, at the location shown in Drawing No. 9805401 01 Rev. C of September 1999 and referred to therein as Admin Building. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.

4.6 The licensee shall provide and maintain a working telephone and facsimile machine in the office specified in Condition 4.5 above.

4.7 Inspection

4.7.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the location shown in Drawing No. 9805401 01 Rev. C of September 1999. The area shall be constructed and maintained in a manner suitable for the inspection of waste. The waste inspection area and the waste quarantine area shall be suitably and clearly segregated from each other.

4.8 The licensee shall provide and maintain two weighbridges at the facility. Unless otherwise agreed with the Agency the location of the weighbridges shall be as shown on Drawing No. 9805401 01 Rev. C of September 1999 and shall be maintained in such condition as to accurately measure the weight of all vehicles using them.

4.9 Vehicle cleaning facilities shall be provided and maintained to the specification as agreed by the Agency at the location as shown in Drawing No. 01 9805401 Rev. C of September 1999 and shall discharge to the foul sewer via Manhole No. F2 as shown in that drawing.

4.10 The Waste Treatment Building, incorporating the reception, quarantine and baling areas shall be maintained as located in Drawing No. 01 9805401 Rev. C of September 1999.

4.11 The licensee shall provide and maintain a civic waste facility at the location shown in Drawing No. 9805401 01 Rev. C of September 1999.

4.12 Wastewater Treatment System

The wastewater treatment system shall be established and maintained as described in additional information as part of a response to Art 16 request received on 20th April 2000, (D.1 Infrastructure) and as shown in Figures 1 and 2 therein.

4.13 Fuel & Liquid Storage

4.13.1 Unless otherwise agreed in writing with the Agency or unless contained in mobile plant at the facility, fuels shall be stored at the location shown in Drawing No. 9805401 01 Rev. B of September 1999.

4.13.2 All tank and drum storage areas shall be rendered impervious to the materials stored therein. In addition, tank and drum storage areas including waste oil storage in the civic waste facility shall, as a minimum be bunded, either locally or remotely, to a volume not less than the greater of the following:

- a) 110% of the capacity of the largest tank or drum within the bunded area; or
- b) 25% of the total volume of substance which could be stored within the bunded area.

4.13.3 All drainage from bunded areas shall be diverted for collection and safe disposal.

4.13.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.

4.13.5 The integrity and water tightness of all the bunds, tanks and containers and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee at least once every three years and reported to the Agency on each occasion. The licensee shall also submit to the Agency for its agreement in each case a written report on the storage of fuels on site. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

4.13.6 All tanks and containers shall be labelled to clearly indicate their contents.

4.14 Drainage

4.14.1 The storm and foul sewer systems shall be established and maintained as set out in Drawing No. 9805401 01 Rev. B of September 1999 unless otherwise agreed in advance by the Agency.

4.14.2 Within nine months of the date of granting of this licence, all foul sewer gullies, drainage grids and manhole covers shall be painted with red squares whilst all surface water discharge gullies, drainage grids and manhole covers shall be painted with blue triangles. These colour codes shall be maintained so as to be visible at all times during site operation. Any alterations to the site drainage thereafter shall comply with this colour coding scheme within one week of such alterations.

4.14.3 The drainage system, bunds and oil separators shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal. A written record shall be kept of the inspections, desludging, cleaning, disposal of associated waste products, maintenance and performance of the interceptors, bunds and drains.

4.14.4 All drainage from the floor of the Transfer Building and the Loading Bay shall be directed to foul sewer.

4.15 Surface Water

4.15.1 Unless otherwise agreed with the Agency, surface water management at the facility shall be carried out as shown in Drawing No. 9805401 01 Rev. C of September 1999.

4.15.2 Within six months of the grant of this licence, the licensee shall report to the Agency on the effectiveness of the oil separator located along the surface water discharge pipeline adjacent to the administration building.

- 4.15.3 The licensee shall install and maintain a petrol interceptor(s) adjacent to the discharge to surface water so that all surface water discharging is intercepted.
- 4.16 Fire Control
- 4.16.1 The licensee shall provide and maintain a firewater retention facility as described in Attachment D.1.o.
- 4.17 Site lighting and site power shall be established and maintained as agreed by the Agency. The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 4.18 Specified Engineering Works
- 4.18.1 The licensee shall submit written proposals for all Specified Engineering Works, as defined in *Schedule D: Specified Engineering Works*, to the Agency for its agreement at least two months prior to the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.
- 4.18.2 All specified engineering works shall be supervised by a competent person(s) notified in advance to the Agency and that person, or persons, shall be present at all times during which relevant works are being undertaken.
- 4.18.3 Following the completion of all specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall include the following information;
- a) a description of the works;
 - b) as-built drawings of the works;
 - c) records and results of all tests carried out (including failures);
 - d) where relevant a drawing and sections showing the location of all samples and tests carried out;
 - e) where relevant daily records sheets/diary;
 - f) name(s) of contractor(s)/individual(s) responsible for undertaking the engineering works;
 - g) name(s) of individual(s) responsible for supervision of works and for quality assurance validation of works;
 - h) records of any problems and the remedial works carried out;
 - i) any other information requested in writing by the Agency
- 4.19 Waste Handling and ventilation plant
- 4.19.1 A third baler and additional essential items of waste handling plant shall be installed and commissioned by 31st January 2002.
- 4.19.2 From 1st February 2002, items of plant deemed critical to the efficient and adequate processing of waste on site (including inter alia balers, waste loading vehicles and sorting lines) shall be provided on the following basis:
- 100% duty capacity;
 - 50% standby capacity;
 - spares in the case of breakdown of critical equipment.

- 4.19.3 Within three months of issue of this licence, the licensee shall provide a report for the agreement of the Agency detailing the capacity in tonnes per hour and tonnes per day, of all waste handling and processing equipment to be used on site and the proposed hours of operation of each baler. These capacities shall be based on the licensed waste intake, as per *Schedule G: Waste Acceptance*, and shall be updated annually.
- 4.19.4 From 1st February 2002, the quantity of waste to be accepted at the facility on a daily basis shall not exceed the duty capacity of the equipment on site. Any exceedance of this intake shall be treated as an incident and reported to the Agency under Condition 10.6.
- 4.19.5 The licensee shall within three months of the date of grant of the licence, submit a proposal to install and maintain a negative air pressure and emissions control system in the reception area of the Treatment Building. This system, as agreed with the Agency, shall be installed by 31st January 2002.
- 4.19.6 The licensee shall provide and maintain an inventory of necessary spares sufficient to ensure that waste handling plant is available to process all waste accepted at the facility.

Reason: *To provide appropriate infrastructure (including waste handling and ventilation plant) to process the waste accepted at the facility and prevent environmental pollution.*

CONDITION 5 WASTE ACCEPTANCE AND HANDLING

- 5.1 Municipal waste only shall be accepted at the facility.
- 5.2 Household waste shall not be stored in the Civic Waste Facility for more than 12 hours before baling unless otherwise agreed in advance with the Agency.
- 5.3 Green Waste
 - 5.3.1 Notwithstanding Condition 5.1 above such green waste shall not be accepted at the Civic Waste Facility until a suitable facility at which such green waste shall be recovered is agreed with the Agency.
 - 5.3.2 Subsequent to the agreement referred to in Condition 5.3.1 above, any green waste accepted at the Civic Waste Facility should not be stored on site for a period longer than 48 hours before removal to the agreed recovery facility.
- 5.4 Waste Acceptance Procedures
 - 5.4.1 Unless otherwise agreed with the Agency, Waste Acceptance Procedures shall be carried out in accordance with Attachment E2 of the application.
 - 5.4.2 All suspect materials identified by the visual inspection of the waste shall be diverted to the Waste Quarantine Area for further examination and classification. Materials other than those permitted by this licence shall be submitted to an alternative appropriate facility.
- 5.5 Processing of wastes
 - 5.5.1 All waste shall be processed as detailed in Attachment E3 of the application unless otherwise provided for in this licence. Any waste deemed unsuitable and/or in contravention of this licence shall be immediately separated and at the earliest possible time removed for recovery or disposal at an appropriate alternative facility.

- 5.5.2 Waste arriving at the Reception Area (as shown in Drawing No. 9805401 01 Rev. C of September 1999) shall be deposited on the floor. Only following visual inspection and assessment shall the waste be loaded onto the conveyors for baling. The bales shall be ejected onto awaiting trailers which, when fully loaded shall be removed from the facility.
- 5.5.3 The doors of the baling station are to be kept closed as far as is practicable and full length, heavy duty, overlapping clear plastic vehicle drive through sheeting must be maintained in the door openings at all times.
- 5.5.4 The licensee shall submit a written proposal on any proposed new waste processing procedure, along with relevant details, to the Agency for its agreement prior to any such processes or associated works being carried out.
- 5.5.5 All waste accepted into the Transfer Station for compaction shall be compacted within 12 hours unless otherwise agreed in advance with the Agency.
- 5.5.6 The quantity of wastes to be accepted at the facility (excluding waste accepted at the Civic Waste Facility) shall not exceed 350,000 tonnes per annum unless otherwise agreed in advance with the Agency.
- 5.6 Hours of operation
- 5.6.1 Until the 31st January 2002, the hours of operation shall be:
Civic Waste Facility: 8.00 to 18.00 Monday to Saturday.
Baling Station: 7.30 to 18.30 Monday to Saturday.
- 5.6.2 From 1st February 2002, the hours of operation at the facility (subject to the plant required by Condition 4.19 being in place) shall be:
Civic Waste Facility: 8.00 to 18.00 Monday to Sunday.
Baling Station: 24 hours per day, seven days per week.
- 5.7 Scavenging shall not be permitted at the facility.
- 5.8 No smoking shall be allowed on the facility.
- 5.9 Waste sent off-site for recovery or disposal shall only be conveyed to a waste contractor or as otherwise agreed by the Agency. The ultimate recovery or disposal facility for all wastes shall be agreed in advance with the Agency. All wastes removed off-site for recovery or disposal shall be transported from the facility to the consignee in a manner which will not adversely affect the environment.
- 5.10 Civic Waste Facility
- a) Unless otherwise agreed with the Agency the following wastes only shall be accepted at the civic waste facility: Paper and cardboard, glass, clothing, waste oil, batteries, scrap metal, wood, food cans, beverage cans, household putrescible waste (subject to condition 5.2 above), green garden waste (subject to condition 5.3 above), D.I.Y. waste and white goods.
- b) No hazardous waste (excluding waste oil and batteries collected for recovery), asbestos, liquid waste, sludge or offal shall be deposited at the Civic Waste Facility.

Reason: *To provide for appropriate operation of the facility to ensure protection of the environment and prevent environmental pollution.*

CONDITION 6 ENVIRONMENTAL NUISANCES

- 6.1 All baled waste shall be removed from the facility within forty eight hours of being baled, unless subject to the prior agreement of the Agency.
- 6.2 The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by vermin, birds, flies, mud, dust and odours. Written records shall be made of all inspections and any actions taken as a result of these inspections.
- 6.3 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.
- 6.4 Any waste placed on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed by the licensee immediately and in any event by 10.00 a.m. of the next operational day, after such waste is discovered. Such waste shall be disposed of at an appropriate facility.
- 6.5 The floor of the Baling Station, the hopper and the compactor shall be cleaned of all waste on a regular basis and written records of such cleaning shall be kept. The reception area shall be cleared of all waste at the end of each operational day. From 1st February 2002, the reception area floor shall be cleared of all waste at the end of each shift.
- 6.6 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered, and that there shall be no liquid discharges from the waste transported therein.
- 6.7 Unless subject to the prior agreement of the Agency, a maximum of 25 enclosed waste containers (including sealed containers of compacted waste or fully enclosed collection vehicles containing waste), shall be stored on the facility at any one time. Waste, once baled, may be stored on the facility for a maximum of 48 hours. These containers shall be stored at areas clearly designated for this purpose.
- 6.8 In dry weather, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 6.9 No waste shall be placed, or allowed to accumulate outside the Reception Area, except baled waste in fully enclosed trailers pending removal from the site, or waste in the Civic Waste Facility which is placed in specified and appropriate containers.
- 6.10 The licensee shall ensure that vermin, birds, flies, mud, dust and odours do not give rise to nuisance at the facility or the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution or contravene any national statutory protection granted in respect of protected species or cause significant interference with amenities or the environment beyond the site boundary.
- 6.11 **Odour Control System**
The licensee shall, within nine months of the date of grant of this licence submit a proposal to the Agency for its agreement, for the ongoing maintenance of the odour control system and the storage of spare parts for the system.
- 6.12 The weather station (as described in additional information as part of a response to an Article 16 notice received on 20th April 2000 re: C.1/H1 Air) shall be installed within six months of the date of grant of this licence or as agreed by the Agency.

Reason: *To provide for the control of nuisance.*

CONDITION 7 EMISSIONS AND ENVIRONMENTAL IMPACTS

- 7.1 No specified emission from the facility shall exceed the emission limit values set out in *Schedule F: Emission Limits* of this licence. There shall be no other emissions of environmental significance.
- 7.2 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer. Written records of the calibrations and maintenance shall be made and kept by the licensee.
- 7.3 The licensee shall ensure that the activities shall be carried out in a manner such that emissions do not result in significant impairment of, or significant interference with the environment beyond the facility boundary.
- 7.4 The licensee shall ensure that all operations on-site are carried out in a manner such that air emissions or odours do not result in a significant impact beyond the site boundary. Air emissions from the emissions control system required under Condition 4.19 shall not exceed the emission limit values set out in *Schedule F: Emission Limits* of this licence.
- 7.5 Surface Water
- Emissions to Surface Water
- 7.5.1 All surface waters arising on the site shall be collected and directed via the site drainage system as set out in Drawing No. 9805401 01 Rev. C of September 1999 of the waste licence application.
- 7.5.2 There shall be no visible oil in the discharge.
- 7.6 There shall be no direct emissions to groundwater.
- 7.7 There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at the facility boundary.
- 7.8 Emissions to Sewer
- 7.8.1 Monitoring and analyses of each discharge or emission to sewer shall be carried out as specified in *Schedule E.1: Monitoring of Emissions to Sewer*.
- 7.8.2 Within six months of the date of grant of this licence, the licensee shall submit a report on the effectiveness of the wastewater treatment system. This report shall include a proposal for the agreement of the Agency for any additional wastewater treatment equipment necessary to achieve the Emission Limit Values as prescribed by this licence.
- 7.8.3 No substance shall be present in emissions to sewer in such concentrations as would constitute a danger to sewer maintenance personnel working in the sewerage system, or as would be damaging to the fabric of the sewer, or as would interfere with the biological functioning of a downstream wastewater treatment works.
- 7.8.4 The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works or apparatus installed in connection with the discharge or emission and to take samples of the discharge or emission.

- 7.8.5 No emission to sewer shall take place which gives rise to any reaction within the sewer or to the liberation of by-products which may be of environmental significance. In particular the emission shall not contain any liquid matter (including petroleum spirits or organic solvents) or thing which is or may be liable to set or congeal at average sewer temperature or is capable of giving off any flammable or explosive gas or any acid, alkali or other substance in sufficient concentration to cause corrosion to sewer pipes, penstock and sewer fittings or the general integrity of the sewer.
- 7.8.6 Effluent shall be screened prior to discharge to remove solids and avoid blockages in the sewer.
- 7.8.7 Non-trade effluent wastewater (e.g. firewater, accidental spillage) which occurs on-site shall not be discharged to the sewer without the prior authorisation of the Sanitary Authority. The Agency shall be notified of such an event.
- 7.8.8 The licensee shall provide and maintain an inspection chamber in a suitable position in connection with each pipe through which the trade effluent is being discharged. Each such inspection chamber or manhole shall be constructed and maintained by the licensee so as to permit the taking of samples of the discharge.
- 7.8.9 There shall be no discharge or emission to foul or surface water sewers of any waste classified under the Waste Management Act, 1996 which would cause a breach of the emission limits set out in *Schedule F.1: Emissions to Sewer* of this licence.

Reason: *To control emissions from the facility and provide for the protection of the environment.*

CONDITION 8 RESTORATION AND AFTERCARE

- 8.1 A proposal for a Decommissioning and Aftercare Plan for the facility shall be submitted to the Agency within twelve months of the date of grant of the licence. The licensee shall update these schemes when required by the Agency and submit amendments to the Agency for its agreement.

Reason: *To provide for decommissioning of the facility and aftercare of the site on which the facility is located.*

CONDITION 9 ENVIRONMENTAL MONITORING

- 9.1 The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule E: Monitoring* and as specified in the Conditions of this licence.
- 9.2 The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and off-site points as required by the Agency.
- 9.3 The licensee shall maintain all sampling and monitoring points, and clearly label and name (including national grid number) all sampling and monitoring locations, so that they may be used for representative sampling and monitoring.

- 9.4 Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers' instructions (if any) so that all monitoring results accurately reflect any emission or discharge or environmental parameter.
- 9.5 The licensee shall amend the frequency, locations, methods and scope of monitoring, sampling, analyses and investigations only upon the written instruction of the Agency and shall provide such information concerning such amendments as may be requested in writing by the Agency. Such alterations shall be carried out within any timescale nominated by the Agency.
- 9.6 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless an alternative sampling or monitoring arrangement has been agreed in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. Prior written agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.
- 9.7 Unless otherwise agreed with the Agency, a written record shall be kept of the names, qualifications and a summary of relevant experience of all persons who carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.
- 9.8 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 9.9 Unless otherwise specified by this licence or agreed by the Agency, all requirements for environmental monitoring shall be effective immediately after the date of grant of this licence.
- 9.10 Within three months of the date of grant of this licence, the licensee shall submit to the Agency for agreement, an odour assessment of the entire activity on-site. This odour assessment shall, as a minimum include:
- identification and quantification of all significant odour releases when the facility is accepting up to 350,000 tonnes per annum and operating up to 24 hours per day;
 - an examination of all locations where wastes are deposited, processed or stored to determine measures for the containment and minimisation of odours; and
 - the use of a negative air pressure extraction and emissions control system in preventing the emission of odours from the facility.

Reason: *To ensure that the licensee, by provision of a system to monitor emissions, has sufficient information to demonstrate compliance with the conditions of the licence.*

CONDITION 10 CONTINGENCY ARRANGEMENTS

- 10.1. The licensee shall, within six months of the date of grant of this licence, submit an updated written Emergency Response Procedure (ERP) to the Agency for its agreement. The ERP shall address any emergency situations which may originate on the facility and shall include provision for minimising the effects of any emergency on the environment.

- 10.2. The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used the absorbent material shall be disposed of at an appropriate facility.
- 10.3. All significant spillages occurring at the facility shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.
- 10.4. No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency. Immediate action shall be taken to extinguish it and the appropriate authorities notified.
- 10.5. In the event of a complete breakdown of the baling equipment or any other occurrence which results in the closure of the transfer station building, any putrescible waste arriving at or already collected at the facility shall be transferred directly to appropriate landfill sites or any other appropriate facility until such time as the Waste Transfer Building is returned to a fully operational status. Such a breakdown event will be treated as an emergency and rectified as soon as possible.
- 10.6. Unless otherwise notified in writing by the Agency in the event that any monitoring, sampling or observations indicate that an incident has, or may have, taken place, the licensee shall immediately:
 - a) identify the date, time and place of the incident;
 - b) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission;
 - c) isolate the source of the emission;
 - d) evaluate the environmental pollution, if any, caused by the incident;
 - e) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
 - f) provide a proposal to the Agency for its agreement within one month to:
 - (i) identify and put in place measures to avoid reoccurrence of the incident; and
 - (ii) identify and put in place any other appropriate remedial action.

Reason: *To provide for the protection of the environment.*

CONDITION 11 CHARGES AND FINANCIAL PROVISIONS

11.1 Agency Charges

- 11.1.1 The licensee shall pay to the Agency an annual contribution of £ 10,591 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2002 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Public Sector Average Earnings Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2001, the licensee shall pay a pro rata amount from the date of this licence to 31st December 2001. This amount shall be paid to the Agency within one month of the date of grant of this licence.

11.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased or decreased the licensee shall contribute such sums as determined by the Agency to defraying its costs.

11.2 Financial Provision for Decommissioning

11.2.1 The licensee shall from a date to be set by the Agency establish and maintain a fund, or written guarantee, that is adequate to assure the Agency that the licensee is at all times financially capable of implementing the Decommissioning and Aftercare Plan required by Condition 8.1. The type of fund and means of its release/recovery shall be agreed by the Agency prior to its establishment.

11.2.2 The fund shall be maintained in an amount always sufficient to underwrite the current Decommissioning and Aftercare Plan.

11.2.3 The licensee shall revise the cost of decommission, restoration and aftercare annually and any details of the necessary adjustments to the fund must, within two weeks of the revision, be forwarded to the Agency for agreement. Any adjustment agreed by the Agency shall be effected within four weeks of said written agreement.

11.2.4 Unless otherwise agreed any revision to the fund shall be computed using the following formula:

$$\text{Cost} = (\text{ECOST} \times \text{WPI}) + \text{CiCC}$$

Where:

Cost = Revised decommission, restoration and aftercare cost

ECOST = Existing decommission, restoration and aftercare cost

WPI = Appropriate Wholesale Price Index [Capital Goods, Building & Construction (i.e. Materials & Wages) Index], as published by the Central Statistics Office, for the year since last closure calculation/revision.

CiCC = Change in compliance costs as a result of change in site conditions, changes in law, regulations, regulatory authority charges, or other significant changes.

Reason: *To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.*

SCHEDULE A :Content of the Environmental Management Programme

Environmental Management Programme

Details of Operator

Name and Address of Operator and Site. Included should be contact names in respect of persons with managerial responsibility for site operations, including the facility manager. Relevant telephone numbers should also be given. All relevant drawings should be included in the EMP.

Types of Waste Accepted

A detailed description of the types of waste that can be accepted on the site should be given.

Quantity of Wastes Accepted

Details should be given on the annual quantity of waste taken into the site.

Engineering Details

Details of all significant site engineering works should be included. Where applicable the information should cover:

- fencing, gates and other security
- site access roads and secondary site roads
- offices, fuel stores etc.
- site infrastructure etc.

Operational Matters

These should include:

- description of the operations
- measures for the control of environmental nuisances
- measures for the control of emissions
- site opening and operating times
- access control
- waste acceptance procedures
- procedures for dealing with unacceptable wastes
- equipment to be utilised
- site personnel, including qualifications, duties and responsibilities
- monitoring and maintenance procedures
- trigger levels for emissions
- operational and safety rules (including safety statement)
- emergency procedures

Timescale for achieving the objectives and targets listed in the Schedule of Objectives and Targets

Designation of Responsibility for Achieving Targets and Objectives

Other items specified by the Agency

SCHEDULE B :Content of the Annual Environmental Report

Annual Environmental Report Content

Reporting Period.

Waste activities carried out at the facility.

Quantity and Composition of waste baled at the baling station during the reporting period and each previous year.

Quantity of waste received at the civic waste facility during the reporting period and each previous year.

Summary report on emissions.

Summary of results and interpretations of environmental monitoring, including a location plan of all monitoring locations along with their respective 12 digit grid references.

Resource and energy consumption summary.

Report on development works undertaken during the reporting period, and a timescale for those proposed for the coming year.

Schedule of Environmental Objectives and Targets for the forthcoming year.

Report on the progress towards achievement of the Environmental Objectives and Targets contained in previous year's report.

Full title and a written summary of any procedures developed by the licensee in the year which relates to the facility operation.

Tank, drum, pipeline and bund testing and inspection report.

Reported Incidents and Complaints summaries.

Review of Nuisance Controls.

Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.

Any other items specified by the Agency.

Ventilation plant capacity and spares.

Duty and standby capacity of waste handling plant.

SCHEDULE C :Recording and Reporting to the Agency

Table C.1 Recurring Reports

| Report | Reporting Frequency <small>Note1</small> | Report Submission Date |
|---|---|--|
| Environmental Management System Updates | Annually | One month after the end of the year reported on. |
| Annual Environment Report (AER) | Annually | Thirteen months from the date of grant of licence and one month after the end of each year thereafter. |
| Record of incidents | As they occur | Within five days of the incident. |
| Specified Engineering Works reports | As they arise | Prior to the works commencing. |
| Bund, tank and container integrity assessment | Every three years | Six months from the date of grant of licence and one month after end of the three year period being reported on. |
| Monitoring of emissions to surface water | Quarterly | Ten days after end of the quarter being reported on. |
| Monitoring of emissions to sewer | Quarterly | Ten days after end of the quarter being reported on. |
| Noise Monitoring | Annually | One month after the completion of the monitoring. |
| Dust Monitoring | Annually | One month after the end of the year reported on. |
| Air monitoring | Annually | One month after the completion of the monitoring. |
| Monitoring of Emissions to Atmosphere & Air Quality | Quarterly | Ten days after end of the quarter being reported on. |
| Any other monitoring | As they occur | Within ten days of obtaining results. |

Note 1: Unless altered at the request of the Agency

SCHEDULE D :Specified Engineering Works

| Specified Engineering Works |
|---|
| <p>Modifications to wastewater treatment works.</p> <p>Modifications to (1) surface water management system including bunding in the waste reception area and, (2) modifications to surface water emission points</p> <p>Development of waste storage areas.</p> <p>Installation of sumps or other drainage controls.</p> <p>Installation of groundwater control and/or monitoring systems.</p> <p>Installation of banded fuel storage areas.</p> <p>Installation of increased waste processing capacity.</p> <p>Installation of waste processing or other equipment.</p> <p>Installation of negative air pressure and exit vent filter system</p> <p>Any other works notified by the Agency.</p> |

SCHEDULE E :Monitoring

Monitoring to be carried out as specified below.

E.1: Monitoring of Emissions to Sewer

Monitoring of emissions to sewer shall be from monitoring location F.6.

Table E.1.1 Sewer Monitoring Parameters and Frequencies

| Parameter | Monitoring Frequency | Sampling Method/Type |
|----------------------|----------------------|--|
| Flow to Sewer | Daily | Water meter reading |
| BOD | Quarterly | Grab/Standard Method ^{Note 1} |
| COD | Quarterly | Grab/Standard Method ^{Note 1} |
| Suspended Solids | Quarterly | Grab/Standard Method ^{Note 1} |
| Fats, Oil, Grease | Quarterly | Grab/Standard Method ^{Note 1} |
| Temperature | Quarterly | Grab/Standard Method ^{Note 1} |
| pH | Quarterly | Grab/Standard Method ^{Note 1} |
| Sulphates | Quarterly | Grab/Standard Method ^{Note 1} |
| Ammonia | Quarterly | Grab/Standard Method ^{Note 1} |
| Detergents (as MBAs) | Quarterly | Grab/Standard Method ^{Note 1} |

Note 1: 'Standard Methods for the Examination of Water and Wastewater', (prepared and published jointly by A.P.H.A., A.W.W.A. & W.E.F.) 19th Ed. 1995, American Public Health association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA.

E.2: Dust

Dust monitoring shall be carried out at locations D.1, D.2, and D.3.

Table E.2.1 Dust Monitoring Frequency and Technique

| Parameter (mg/m ² /day) | Monitoring Frequency | Analysis Method/Technique |
|------------------------------------|----------------------|-----------------------------------|
| Dust | Annually | Standard Method ^{Note 1} |

Note 1: Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute). A modification (not included in the standard) which 2 methoxy ethanol may be employed to eliminate interference due to algae growth in the gauge.

E.3: Noise

Noise monitoring shall be carried out at the following locations: N1, N2, N3, N4 and N5.

Table E.3.1 Noise Monitoring Frequency and Technique

| Parameter | Monitoring Frequency | Analysis Method/Technique |
|--|----------------------|----------------------------|
| L(A) _{EQ} (30 minutes) | Annual | Standard ^{Note 1} |
| L(A) ₁₀ (30 minutes) | Annual | Standard ^{Note 1} |
| L(A) ₉₀ (30 minutes) | Annual | Standard ^{Note 1} |
| Frequency Analysis(1/3 Octave band analysis) | Annual | Standard ^{Note 1} |

Note 1: "International Standards Organisation. ISO 1996. Acoustics - description and Measurement of Environmental noise. Parts 1, 2 and 3."

E.4: Surface Water

Surface Water monitoring shall be carried out at the following locations: S1, S2, S3, SWE1A, and SWE1B.

Table E.4.1 Surface Water Monitoring Parameters and Frequencies

| Parameter | Monitoring Frequency | Analysis Method/Technique |
|-------------------------|----------------------|-----------------------------------|
| Total Nitrogen | Monthly | Standard Method ^{Note 1} |
| Total Ammonia | Monthly | Standard Method ^{Note 1} |
| COD | Monthly | Standard Method ^{Note 1} |
| Electrical Conductivity | Monthly | Standard Method ^{Note 1} |
| pH | Monthly | Electrometry |
| Temperature | Monthly | Thermometry |

Note 1: "International Standards Organisation. ISO 1996. Acoustics - description and Measurement of Environmental noise. Parts 1, 2 and 3."

E.5: Emissions to Atmosphere & Air Quality Monitoring

Table E.5.1 PM₁₀ and Odour Monitoring Frequency and Technique

| Parameter ^{Note 1} | Monitoring Frequency | Analysis Method/Technique |
|--|-----------------------------|---------------------------|
| PM ₁₀ (µg/m ³) ^{Note 4} | Quarterly | See ^{Note 2} |
| Odour ^{Note 5} | Quarterly ^{Note 3} | See ^{Note 3} |

Note 1: Meteorological monitoring to be carried out concurrently with all above monitoring.

Note 2: As described in prEN12341 "Air Quality - field test procedure to demonstrate reference equivalence of sampling methods for PM10 fraction of particulate matter" or an alternative agreed in writing with the Agency.

Note 3: Odour measurements shall be by olfactometric measurement and analysis for mercaptans, hydrogen sulphide, ammonia, amines as set out in Table E 5.2.

Note 4: Locations for PM₁₀ sampling are as per Dust Monitoring locations above

Note 5: Location for odour sampling to be agreed with the Agency under Condition 4.19

Table E.5.2 Atmosphere and Air Quality Monitoring Frequencies and Techniques

| Control Parameter | Monitoring Required ^{Note 2} | Monitoring Equipment | Backup Equipment |
|-------------------|---------------------------------------|--|------------------|
| Ammonia | Weekly | Colorimetric Indicator Tubes ^{Note 1} | Spare tubes |
| Hydrogen sulphide | Weekly | Colorimetric Indicator Tubes ^{Note 1} | Spare tubes |
| Mercaptans | Weekly | Colorimetric Indicator Tubes ^{Note 1} | Spare tubes |
| Amines | Bi – annually | NIOSH method 2010 ^{Note 1} | - |
| Odour units | Bi-annually | Olfactometric | |

Note 1: Or an equivalent method acceptable to the Agency.

Note 2: Records shall be kept at the facility of all monitoring and visual checks.

SCHEDULE F :Emission Limits

F.1 Emissions to Sewer

| Parameter | Emission | Limit | Value |
|---------------------------------|--------------------|---------------------------------|-----------------------------|
| | Grab Sample (mg/l) | Daily Mean Concentration (mg/l) | Daily Mean Loading (kg/day) |
| Biological Oxygen Demand | 10,000 | 8,000 | 800 |
| Chemical Oxygen Demand | 30,000 | 2,400 | 2,400 |
| Suspended Solids | 2,000 | 1,600 | 160 |
| Fats, Oils, Grease | 100 | | 10 |
| pH | 5-10 | | |
| maximum Temperature | 42°C | | |
| Detergents (as MBAS) | 100 | | 10 |
| Sulphates (as SO ₄) | 500 | 400 | 40 |
| Ammonia | 50 | | 5 |

F.2 Dust Deposition Limits:

| Level (mg/m ² /day) ^{Note 1} |
|--|
| 350 |

Note 1: 30 day composite sample with the results expressed as mg/m² /day.

F.3 Noise Emissions:

| Day dB(A) L _{Aeq} (30 minutes) | Night dB(A) L _{Aeq} (30 minutes) |
|---|---|
| 57 | 45 |
| Maximum noise levels: 85 dBA at 2m from source. | |

F.4 Emissions to Surface Water:

| Parameter | Emission Limit Value |
|-----------------------|-----------------------------|
| | Mg/l |
| Oils, fats and grease | 10 |
| COD | 150 |

F.5 Emission Limit Values for air emissions:

Emission point grid references (12 digit) to be submitted to the Agency subsequent to agreement [Condition 4.19.4].

| Parameter | Emission Limit Value (ppm v/v) |
|--------------------------------|---------------------------------------|
| Ammonia | 50 |
| Amines | 5 |
| Hydrogen Sulphide & Mercaptans | 5 |

SCHEDULE G : Waste Acceptance

Table G.1 Waste Categories and Quantities

| WASTE TYPE | MAXIMUM TONNES PER ANNUM |
|-------------------|---------------------------------|
| Municipal waste | 350,000 |
| TOTAL | 350,000 |

Sealed by the seal of the Agency on this 8th day of February, 2001.

**PRESENT when the seal of the Agency
was affixed hereto:**

Anne Butler Director/Authorised Person