

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

WASTE LICENCE
PROPOSED DECISION

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| Waste Licence | 95-1 |
| Register Number: | |
| Applicant: | Reduce, Reuse and Recycle Limited |
| Location of Facility: | Knockmitten Lane, Western Industrial Estate, Dublin 12. |

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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 received from other parties and the report of its inspector.

Part I: Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Environmental Protection Agency (the Agency) proposes, under Section 40(1) of the said Act to grant this Waste Licence to Reduce, Reuse and Recycle Limited, Knockmitten Lane, Western Industrial Estate, Dublin 12 to carry on the waste activities listed below at Knockmitten Lane, Western Industrial Estate, 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 11: Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.

This activity is limited to the sorting of waste on-site prior to its transport to landfill for disposal.

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

This activity is limited to the removal of non-recyclable fractions from commercial wastes brought on-site prior to their transport to landfill for disposal.

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 sorting of wastes into various components, their storage in specific containers prior to being transported to landfill.

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

Class 2: Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).

This activity is limited to the recovery of spent grain at the facility and the possible future removal of various components from construction and demolition wastes.

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

This activity is limited to the removal of metals from wastes prior to being transported to other facilities for recovery.

Class 4: Recycling or reclamation of other inorganic materials.

This activity is limited to the possible increase in recycling of waste (e.g. glass) at the 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 storage of waste prior to being recycled, re-used or reclaimed.

INTERPRETATION

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| Act | The Waste Management Act, 1996 (No. 10 of 1996). |
| Aerosol | A suspension of solid or liquid particles in a gaseous medium. |
| 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 | All or part of a period of twelve consecutive months. |
| 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 0000 hours to 2400 hours. |
| Daytime | 0800 hrs to 2200 hrs. |
| 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 |
| Fugitive Dust | Non-point source dust emissions. For example, dust from vehicular movements on yards. |
| 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. |
| Industrial 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. |
| Inert waste | Waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater. |
| 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 | Reduce, Reuse and Recycle Limited |
| 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 20% dry matter |
| Local Authority | South Dublin County Council |
| 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 |

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| | 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 | 2200 hrs to 0800 hrs. |
| 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. |
| 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 | A period of three calendar months, the first period of which commences on the date of grant of this licence |
| 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 |
| Sludge | The accumulation of solids resulting from chemical coagulation, flocculation and/or sedimentation after water or wastewater treatment. |
| Specified Emissions | Those emissions listed in Schedule F of this licence. |
| Specified Engineering Works | Those engineering works listed in Schedule D of this licence. |
| Submit | Unless the context of this licence indicates otherwise, submit to the Agency in writing for agreement |
| Tonal Noise | As defined in International Standards Organisation "Acoustics - description and measurement of environmental noise", Part 2, 1996. |
| 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. |
| Unacceptable waste | As defined in Condition 5.1 of this licence. |
| Waste | As defined in Section 4(1) of the Act. |
| Waste disposal | Includes the activities referred to in Section 4 of the Act and listed in |

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| activity | 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. |
| Working Day | 7.30 a.m. to 5.30 p.m. Monday to Friday. |

Part II: CONDITIONS

CONDITION 1 SCOPE

- 1.1. The waste activities authorised by this licence are listed and described in *Part I: Activities Licenced*. Waste activities at the facility shall be restricted to those listed in Part I and any restrictions set down therein.
- 1.2. Waste activities shall be restricted to the area of land outlined in red on Drawing No. G7104/1P including amendments as per Drawing No. 9938-02 of the application. 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.

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 eighteen months from the date of grant of this licence, submit to the Agency for its agreement a proposal for a documented Environmental Management System (EMS) for the facility. 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 those elements specified in the Conditions 2.2 to 2.8 below:

2.2 Schedule of Environmental Objectives and Targets

2.2.1 The licensee shall, within twelve months from the date of grant of this licence, submit to the Agency for its agreement a Schedule of Objectives and Targets. The objectives should be specific and the targets measurable.

2.2.2 The Schedule shall address a five year period as a minimum and shall be reviewed and submitted annually to the Agency for its agreement.

2.3 Environmental Management Programme

2.3.1 The licensee shall, within twelve months from the date of grant of this licence, submit to the Agency for its agreement an 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.

2.3.2 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.

2.4 Corrective Action

2.4.1 Within six months of the date of grant of this licence, the licensee shall establish and maintain, written Corrective Action Procedures to ensure that corrective action is taken should specified requirements to this licence not be fulfilled.

2.5 Awareness and Training

2.5.1 Within six months of the date of grant of this licence, the licensee shall establish and maintain, Awareness and Training Procedures for identifying training needs and for providing appropriate training, for personnel whose work is related to the licensed facility. Written records of training shall be maintained.

2.6 Management Structure

2.6.1 Within six months from the date of grant of this licence, 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.

2.7 Communications

2.7.1 Within twelve 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.

2.8 Annual Environmental Report

2.8.1 The licensee shall submit to the Agency for its agreement, within twelve 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).

2.8.2 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.

2.9 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.

2.10 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 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:

- a) any emission which results in the contravention of any relevant standard, including any standard for an environmental medium, or any relevant emission limit value, prescribed under any relevant enactment;
- b) any emission which does not comply with the requirements of this licence;
- c) any trigger level specified in this licence or in the EMS which is attained or exceeded;

- d) any test failures of waste samples taken;
 - e) any malfunction of any environmental control system;
 - f) any indication that contamination has, or may have, taken place;
 - g) the cessation of waste activities at the facility for a period in excess of 28 days, and their recommencement;
 - h) any occurrence with the potential for environmental pollution; and,
 - i) any emergency.
- 3.2 The written record shall include all aspects described in Condition 10.8 (a-e)
- 3.3 Unless otherwise instructed in writing by the Agency, the licensee shall:
- a) notify the Agency by telephone, and by facsimile if available, as soon as practicable and in any case not later than 10.00 am the following working day after the occurrence of any incident; and
 - b) 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.
- 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) be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
 - (e) be submitted in accordance to the relevant reporting frequencies specified by this licence;
 - (f) be certified as accurate and representative by the licensee; 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 this licence.
- 3.7 In the event of any incident which relates to discharges to surface water, the licensee shall notify the Local Authority and the Eastern Regional Fisheries Board as soon as practicable by telephone and in writing (by facsimile if available) and in any case not later than 10:00am on the following working day after such an incident.

- 3.8 Unless otherwise agreed with the Agency, all documentation required to be maintained under this licence, shall be retained by the licensee.
- 3.9 Unless otherwise agreed in advance with the Agency, the licensee must give at least fourteen days notice to the Agency of the following events:
- a) the cessation of waste disposal activities at the facility for a period in excess of twenty-eight days;
 - b) the re-commencement of waste disposal activities at the facility following a period of cessation referred to at a) above.
- 3.10 The licensee shall provide additional copies of any documentation referred to in this licence to the Agency upon written request, within the time specified in writing by the Agency.
- 3.11 The licensee shall keep the following documents at the facility office referred to in Condition 4.6.
- a) the current waste licence relating to the facility;
 - b) any previous waste licence in respect of the facility;
 - c) the current EMS for the facility;
 - d) the previous year's AER for the facility;
 - e) all written procedures produced by the licensee which relate to the licensed activities.
- 3.12 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. The licensee shall record the following:
- a) the name of the carrier;
 - b) Time and Date of departure/arrival;
 - c) the vehicle registration number;
 - d) the name of the producer(s)/collector(s) of the waste as appropriate;
 - e) a description of the waste including the associated EWC codes;
 - f) the quantity of the waste accepted at/leaving the facility, recorded in tonnes;
 - g) the name of the person checking the load;
 - h) 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;
 - 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.
- 3.13 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.

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 as instructed by the Agency.
- 4.2 Site Notice Board
- 4.2.1 Within three months of the date of grant of this licence, a Site Notice Board shall be provided and maintained by the licensee 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:
- the name and telephone number of the facility;
 - the normal hours of opening;
 - the name, address and telephone number of the licence holder;
 - an emergency out of hours contact telephone number;
 - the name, address and telephone number of the operator of the facility;
 - the licence reference number;
 - where and when environmental monitoring information relating to the facility can be obtained.
- 4.3 Site Security
- 4.3.1 Within three months of the date of grant of the licence, security fencing and gates shall be installed and maintained at the facility entrance and around the perimeter of the facility.
- 4.3.2 The licensee shall remedy any defect in the gates and/or fencing as follows:
- a temporary repair shall be made by the end of the working day; and,
 - a repair to the standard of the original gates and/or fencing shall be undertaken within three working 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 Within six months of the date of grant of this licence, the licensee shall provide, and maintain an impermeable hardstanding surface in all areas of the facility located outside the transfer building.
- 4.5 A traffic management plan shall be implemented at the facility so as to ensure the safe movement of traffic within the facility.

- 4.6 The licensee shall provide and maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 4.7 The licensee shall provide and maintain a working telephone and facsimile machine in the office specified in Condition 4.6 above.
- 4.8 Waste Handling Plant
- 4.8.1 Items of plant deemed critical to the efficient and adequate processing of waste on site (including *inter alia* waste loading vehicles and sorting lines) shall be provided on the following basis:
- 50% additional standby capacity available on a routine basis.
 - Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.
- 4.8.2 Within six months of the date of grant of this licence the licensee shall provide a report detailing the following
- (i) Working capacity in tonnes per day, of all waste handling and processing equipment to be used on site.
 - (ii) These capacities shall be based on the licensed waste intake, as *per* Schedule G: Waste Types.
- 4.8.3 The quantity of waste to be accepted at the facility on a daily basis shall not exceed the working capacity of all waste handling and processing equipment on site. Any exceedance of this intake shall be treated as an incident and reported to the Agency under Condition 10.7
- 4.8.4 Annual updates to the above requirements shall be reported to the Agency as outlined under Schedule B: Content of the Annual Environmental Report.
- 4.9 Waste Quarantine Area
- 4.9.1 A waste quarantine area shall be provided and maintained within three months of the date of grant of this licence. The quarantine area shall be located as shown in Drawing No. 9938-04 of the waste licence application unless otherwise agreed with the Agency.
- 4.9.2 The licensee shall ensure that this area shall be constructed and maintained in a manner suitable and be of a size appropriate for the quarantine of waste if required. The waste quarantine area shall be suitably and clearly segregated from the waste tipping, storage and loading areas.
- 4.10 A weighbridge shall be maintained at the location shown in Drawing No. 9938-02 of the waste licence application, and shall be maintained in such condition as to accurately measure the weight of all vehicles using it. The accuracy of the weighbridge shall be tested and demonstrated by the licensee and shall be reported to the Agency within six months from the date of grant of this licence. Thereafter, the weighbridge shall be tested to the manufacturer's specifications and reported to the Agency. A written record of such tests and any maintenance or remedial work arising from them shall be maintained by the licensee
- 4.11 Facility Layout
- 4.11.1 The Waste Transfer Station and Garage/Workshop shall be established and maintained as set out in Drawing No. 9938-04 of the waste licence application.

4.11.2 The licensee shall provide container storage areas and a car parking area, as illustrated in Drawing No. 9938-02 of the waste licence application.

4.11.3 The licensee shall provide a vehicle wash area as illustrated in Drawing No. 9938-02 of the waste licence application.

4.12 Fuel & Liquid Storage

4.12.1 The licensee shall establish and maintain a bunded fuel storage area at the facility. Unless otherwise agreed with the Agency, fuel shall be stored at the location as shown in Drawing No. 9938-02 of the waste licence application. Fuels shall only be stored at the agreed location.

4.12.2 All tank and drum storage areas shall be rendered impervious to the materials stored therein. In addition, tank and drum storage 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.

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

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

4.12.5 The integrity and water tightness of all bunds on-site and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee and shall be reported to the Agency within nine months from the date of grant of this licence. This testing shall be carried out by the licensee at least once every three years thereafter 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.

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

4.12.7 All tanks and containers shall be secured against unauthorised access.

4.13 Within six months of the date of grant of this licence, a foul sewer system shall be established and maintained as set out in Drawing No. 9938-02 and Drawing No. 9938-04 of the waste licence application subject to any alterations agreed in advance by the Agency and the septic tank on-site shall be decommissioned.

4.14 Within nine months of the date of grant 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 within one week of such alterations.

4.15 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.

4.16 Surface Water

4.16.1 Within six months of the date of grant of this licence, the licensee shall provide, and maintain a surface water drainage network as illustrated on Drawing No. 9938-02 of the waste licence application. All surface waters from the facility shall pass through a silt trap and oil separator prior to discharge to the Camac River.

4.16.2 There shall be no surface water discharges from the facility other than those referred to in Condition 4.15.1

4.17 Oil Separators and Interceptors

4.17.1 Within three months of the date of grant of this licence, the licensee shall report to the Agency on the compatibility of any existing separators located within the facility with the European Standard prEN 858 (installations for the separation of light liquids).

4.17.2 If, in the opinion of the Agency, this comparison proves negative, the licensee shall install a suitable oil separator to replace the existing one within six months of such notification by the Agency.

4.17.3 All oil interceptors and separators installed at the facility as part of both the surface water and foul water system shall be in accordance with the European Standard prEn 858 (installations for the separation of light liquids).

4.18 Fire Provisions

4.18.1 Within nine months of the grant of this licence, and subject to the agreement of the Agency, the Licensee shall provide, install and maintain a system for the detection of a fire inside the Transfer building. A written record shall be kept of the inspections, testing and maintenance of this system.

4.19 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.

4.20 Specified Engineering Works

4.20.1 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 two months prior to any such works being carried out. No such works shall be carried out without the prior agreement of the Agency.

4.20.2 All specified engineering works shall be supervised by a competent person(s) agreed in advance by the Agency and that person, or persons, shall be present at all times during which relevant works are being undertaken.

4.20.3 Following the completion of all specified engineering works, the licensee shall submit a construction quality assurance validation report to the Agency. The validation 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) 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; and
 - j) a comprehensive drawing of the entire facility drainage network including foul sewerage, surface water drainage, fuel, raw material and waste storage locations, waste quarantine area, monitoring stations, cut-off valves, underground services such as electricity cables and their associated manhole covers, vehicle wash area, oil separators, gullies, manhole covers, buildings, truck parking area, pumps, et cetera.
- 4.21 Within nine months of the date of grant of this licence, the licensee shall complete screening and landscaping to the front of the facility unless otherwise agreed with the Agency.

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

CONDITION 5 WASTE ACCEPTANCE AND HANDLING

- 5.1. No hazardous wastes, liquid wastes or wastes liable to spill shall be accepted at the facility.
- 5.2. The wastes listed in Schedule G shall be accepted at the facility.
- 5.3. The quantity of wastes to be accepted at the facility shall not exceed 17,000 tonnes per annum unless otherwise agreed with the Agency.
- 5.4. Within three months of the date of grant of this licence the licensee shall provide and maintain detailed written procedures for waste acceptance and handling. The procedures shall be based on the information as submitted in the Article 16 response received on 18th February 2000.
- 5.5. Each load of waste arriving at the transfer station shall be visually inspected prior to unloading in accordance with "Level 3: On-site Verification" outlined in the Agency's Draft Manual on Waste Acceptance. Any wastes deemed to be in contravention of this licence and/or unsuitable for disposal at this facility shall be removed for disposal at an appropriate alternative facility.
- 5.6. A record of all inspections of incoming waste loads shall be maintained.
- 5.7. Waste must only be accepted at the facility from known customers or new customers subject to waste characterisation off-site. The written records of this off-site waste characterisation shall be retained by the licensee for all active customers and for a two year period following termination of licensee/customer agreements. There shall be no casual public access to the facility.
- 5.8. Waste arriving at the facility shall be weighed, documented and directed to the Transfer Station Building. The waste shall then be deposited on the floor of the Waste Transfer Building for visual inspection. Only following visual inspection and assessment shall the waste be processed for disposal or recovery.
- 5.9. Wastes shall only be delivered to or removed from the facility by waste carriers who are agreed in advance with the Agency.
- 5.10. Any wastes removed off-site for recovery, reuse or disposal shall only be conveyed to facilities as agreed in advance with the Agency.
- 5.11. 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.
- 5.12. All waste accepted into the Transfer Station for compaction/bulk loading shall be compacted/bulk loaded within 12 hours unless otherwise agreed in advance with the Agency.
- 5.13. 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 dispatched to an alternative appropriate facility.
- 5.14. Waste shall only be accepted at the facility between the hours of 7:30am and 5:30pm, Monday to Friday, unless otherwise agreed in advance by the Agency.

- 5.15. No waste shall be placed, or allowed to accumulate outside the Transfer Building other than baled cardboard in fully enclosed trailers/containers pending removal from the site, unless agreed in advance by the Agency.
- 5.16. Full or partially full trailers loaded with waste for disposal shall only be stored within the Transfer Building or Loading Bay prior to dispatch.
- 5.17. Scavenging shall not be permitted at the facility.
- 5.18. No smoking shall be allowed on the facility other than in an area to be agreed with the Agency
- 5.19. No waste shall be burned or otherwise combusted at the facility.
- 5.20. At the end of the working day the floor of the Transfer Building, will be cleared of all waste.
- 5.21. The licensee shall submit proposals within six months of the date of grant of this licence for increasing the separation and recovery of appropriate components of the waste being accepted at the facility to the Agency for its agreement. The licensee shall aim to achieve the targets set out in "Waste Management, Changing Our Ways" (Department of the Environment and Local Government, 1998).

Reason: *To provide for the acceptance and management of wastes authorised under this waste licence.*

CONDITION 6 ENVIRONMENTAL NUISANCES

- 6.1. All waste for disposal held overnight, shall be stored in suitably covered and sealed containers within the Waste Transfer Building, and shall be removed from the facility within 72 hours of its arrival on-site.
- 6.2. The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by vermin and odours. Written records shall be made of all inspections and any actions taken as a result of these inspections.
- 6.3. All loose litter accumulated within the facility and its environs shall be removed and appropriately disposed of on a daily basis.
- 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 such waste is discovered and in any event by 10.00am of the next working day.
- 6.5. The road network in the vicinity of the facility and all hardstanding areas shall be kept free from any mud or debris caused by activities at the facility. Any such debris or deposited materials shall be removed without delay.
- 6.6. 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.
- 6.7. The licensee shall ensure that all vehicles delivering and removing waste from the facility are fully enclosed and clean and shall not give rise to offensive odours or other nuisance.
- 6.8. The licensee shall ensure that vermin do not give rise to nuisance at the facility or the immediate environment of the facility. The necessary precautions, shall be carried out to prevent, control and eradicate infestations of insects, pests and vermin.

- 6.9. The licensee shall ensure that all operations on site shall be carried out in a manner such that air emissions and/or odours do not result in significant impairment of, or significant interference with amenities or the environment beyond the site boundary.

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. There shall be no clearly audible tonal or impulsive component in the noise emissions from the activity at the facility boundary.
- 7.5. There shall be no direct emissions to groundwater.
- 7.6. Discharges to Surface Water
- 7.6.1. Discharges to surface water shall only occur from the location entitled 'SW Sample Chamber MH' as specified in Drawing No. 9938-02 of the waste licence application.
- 7.7. Discharges to Sewer
- 7.7.1. Discharges to Sewer shall only be made at the location entitled 'Foul Sample Chamber MH' as specified in Drawing No. 9938-02 of the waste licence application.
- 7.7.2. Materials, liquids and/or sludges classified as hazardous waste by the second schedule of the Waste Management Act 1996, may not be discharged to sewer.
- 7.7.3. All foul water shall discharge to the foul sewer. The effluent shall be screened prior to discharge to remove gross solids and avoid blockages in the sewer.
- 7.7.4. No substance shall be present in emissions to sewer in such concentrations as would constitute a danger to 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.
- 7.7.5. 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 dissolved methane, 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.

- 7.7.6. 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.
- 7.7.7. 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.
- 7.7.8. 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.
- 7.7.9. The licensee shall maintain a log detailing the usage of all cooling water and boiler water treatment chemicals. This log shall be submitted to South Dublin County Council on an Annual basis.
- 7.7.10. The licensee shall submit monitoring results to the Sanitary Authority on an annual basis.
- 7.7.11. Emission limits for emissions to sewer shall be interpreted as follows subject to agreed alteration by the Sanitary Authority:
 - 7.7.11.1. For Non-Continuous Monitoring:
 - a) No pH value shall deviate from the specified range.
 - b) No temperature value shall exceed the emission limit value.
 - c) For parameters other than pH, temperature and flow, eight out of ten consecutive results, calculated as daily mean concentration or daily mean loading on the basis of 24 hour composite sampling, shall not exceed the emission limit value. No individual result similarly calculated shall exceed 1.2 times the emission limit value.
 - d) For parameters other than pH, temperature and flow, no grab sample value shall exceed 1.2 times the emission limit value.
 - 7.7.12. No substance shall be discharged in a manner, or at a concentration which, after additional dilution, causes tainting of fish or shellfish, interferes with normal patterns of fish migration or accumulates in sediments or biological tissues to the detriment of fish, wildlife or their predators.
- 7.7.13. A record or log book of cleaning maintenance and performance of each sump, storage tank and interceptor shall be made available for inspection at all times by officials from the Sanitary Authority
- 7.7.14. In the event of accidental discharge, spillage or deposit of any diluting matter which enters or is likely to enter any waters or a sewer, the person responsible shall notify the Sanitary Authority as soon as is practicable thereafter.
- 7.7.15. 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* of this licence.

7.7.16. The licensee shall notify the Local Authority and the Agency as soon as is practicable after the occurrence of any one of the following:

- a) any incident with the potential for environmental contamination of surface water or groundwater, or posing a threat to land, or a Sanitary Authority sewer or personnel working in connection with a sewer, or requiring an emergency response by the Local Authority
- b) any emission which relates to a discharge to sewer which does not comply with the requirements of this licence.

7.7.17. The licensee shall provide safe and permanent access to the final effluent discharge point to the sewer.

7.7.18. A sampling chamber shall be provided downstream of the oil interceptor for the purpose of sampling effluent from the interceptor. Samples shall be tested for the parameters denoted in Schedule F: Emission Limits at the frequency and with the method denoted in Schedule E: Monitoring.

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 *six months* of the date of grant of the licence. The licensee shall update these schemes when required in writing by the Agency and submit proposed 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 within three months from the date of grant of this licence, submit to the Agency for its agreement twelve figure National Grid References for the surface water and sewer monitoring points as illustrated in Drawing No. 9938-02 of the waste licence application, the noise monitoring and dust sampling points for agreement with the Agency.

9.3. Foul Sewer Monitoring

9.3.1. The licensee shall provide, install and maintain within six months of the date of grant of this licence, a system for monitoring and recording the discharge volume/flow to foul sewer subject to agreed alteration by the Sanitary Authority.

9.3.2. The licensee shall provide, install and maintain within six months of the date of grant of this licence, a monitoring point for the representative sampling of the final effluent discharge from the facility to the Sanitary Authority foul sewer. A cut-off valve shall be incorporated in the sewer to stop this discharge if so required. Storage capacity for the storage of effluent in the event of discontinuation of discharge shall be provided.

9.4. Surface Water Monitoring

9.4.1. The Licensee shall provide, install and maintain within six months of the date of grant of this licence, a monitoring point for the representative sampling of the final surface water discharge from the facility at the location illustrated in Drawing No. 9938-02. A shut-off valve shall be incorporated in the design to stop this discharge if so required.

9.5. Dust Monitoring

9.5.1. Dust deposition monitoring shall be carried out as specified in Schedule E Monitoring. The first such monitoring shall be undertaken during the first relevant period occurring after the date of grant of this licence.

9.6. Noise Monitoring

9.6.1. Noise monitoring as specified in Schedule E Monitoring shall be carried out on an annual basis during operational hours. The first such monitoring shall be undertaken within six months of the date of the grant of this licence.

9.7. The licensee shall provide and maintain all sampling and monitoring points so that they may be used for the representative sampling and monitoring of emissions from the facility.

9.8. The licensee shall provide safe and permanent access to all on-site and off-site sampling and monitoring points as required by the Agency subject to the owners agreement where necessary.

9.9. Monitoring and analytical 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.

9.10. 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.

9.11. Within two months of date of grant of this licence, the following information shall be submitted to the Agency for its agreement: the names, qualifications and a summary of relevant experience of all persons that will 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. Any proposed changes to the above shall be submitted in writing to the Agency for its agreement.

9.12. 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.

9.13. The licensee shall undertake a programme of testing and inspection of tanks and pipelines to ensure that all tanks, underground effluent, storm and foul sewer pipes are

tested at least once every three years. A written record of such tests and any remedial work carried out on these pipes shall be maintained by the licensee.

- 9.14. All on-site monitoring points as described in Condition 9 shall be tagged in situ with their agreed sampling point codes within six months of the granting of this licence.

Reason: *To ensure compliance with the requirements of other conditions of this licence by provision of a satisfactory system of measurement and monitoring of emissions.*

CONDITION 10 CONTINGENCY ARRANGEMENTS

- 10.1. The licensee shall, within six months of the date of grant of this licence, submit a 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. A written record of the use and disposal of these items shall be maintained by the licensee.
- 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 and immediate action shall be taken to extinguish it and the appropriate authorities notified.
- 10.5. The licensee shall carry out a risk assessment to determine if the facility should have a firewater retention facility. The assessment shall include an investigation into the provision of an automatic/remote diversion of surface water to the retention facility. The assessment shall have regard to any guidelines issued by the Agency with regard to firewater retention. The licensee shall submit the assessment and a report to the Agency on the findings of the assessment within nine months of the date of grant of this licence.
- 10.6. In the event that a significant risk is found to exist for the release of contaminated firewater, the licensee shall, based on the findings of the risk assessment, prepare and implement, with the agreement of the Agency, a suitable risk management programme. The risk management programme shall be fully implemented within the timescale as notified in writing by the Agency.
- 10.7. In the event of a complete breakdown of 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.
- 10.8. 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 £7,389 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 2001 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 2000, the licensee shall pay a pro rata amount from the date of this licence to 31st December 2000. 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 the licensee shall contribute such sums as determined by the Agency to defraying its costs.

11.2 Financial Provision for Closure, Restoration and Aftercare

- 11.2.1 The licensee shall arrange for the completion of a comprehensive and fully costed Environmental Liabilities Risk Assessment for the facility which will address liabilities arising from the carrying on of the activities to which this licence relates or in consequence of ceasing to carry on those activities. A report on this assessment shall be submitted to the Agency for agreement within nine months of date of grant of this licence.
- 11.2.2 Within twelve months of the date of grant of this licence, the licensee shall make a Proposal for Financial Provision to the Agency for its agreement to cover any liabilities incurred by the licensee in carrying on the activities to which this licence relates or in consequence of ceasing to carry on those activities. Such provision shall be maintained by the licensee unless otherwise agreed by the Agency.
- 11.2.3 The amount of financial provision, held under Condition 11.2.2 shall be reviewed and revised as necessary, but at least annually. Any proposal for such a revision shall be submitted to the Agency for its agreement.
- 11.2.4 The licensee shall within two weeks of purchase, renewal or revision of the financial provision required under Condition 11.2.2, forward to the Agency written proof of such indemnity.

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

Items specified to be contained in an Environmental Management Plan in the Landfill Operational Practices Manual published by the Agency, or otherwise as agreed in writing with the Agency.

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 received, disposed of and recovered during the reporting period and each previous year, including facilities to which wastes were conveyed for disposal or recovery

Summary report on progress regarding Condition 5.21

Summary report on emissions (Certified results/data sheets to be attached as Appendices)

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, pipeline and bund testing and inspection report.

Reported Incidents and Complaints summaries.

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.

Development/infrastructural works in place and planned, to process waste quantities projected for the following year (including plant operating capacity, provision of adequate standby capacity and provision of contingency, backup and spares in the case of breakdown).

SCHEDULE C :Recording and Reporting to the Agency

Table C.1 Recurring Reports

| Report and Contents | Reporting Frequency ^{Note 1} | Report Submission Date |
|---|---------------------------------------|---|
| Environmental Management System Updates | | |
| (i) Environmental Management System Updates | Annually | One month after the end of each year being reported on. |
| (ii) Environmental Management Programme | Annually | One month after the end of each year being reported on. |
| (iii) Annual Environmental Report | Annually | One month after the end of each year being reported on. |
| Records of incidents | As they occur | Within five days of the incident |
| Infrastructure | | |
| (i) Specified Engineering Works Reports | As they arise | Prior to the works commencing |
| (ii) Bund, tank and container integrity assessment | 3 yearly | Six months from the date of grant of licence and one month after end of the year being reported on. |
| (iii) Underground pipe and tank integrity assessment | 3 yearly | Eighteen months from the date of grant of licence and one month after end of the year being reported on. |
| (iv) Weighbridge accuracy | As they occur | Six months from the date of grant of licence and according to manufacturer's specifications thereafter. |
| Environmental Monitoring | | |
| (i) Monitoring of emissions to surface water | Quarterly | Ten days after end of the quarter being reported on. |
| (ii) Monitoring of emissions to sewer | Quarterly | Ten days after end of the quarter being reported on. |
| (iii) Noise monitoring | Annually | One month after the completion of the monitoring |
| (iv) Dust monitoring | Annually | One month after the completion of the monitoring |
| Financial | | |
| (i) Financial Provision as per Conditions 11.2.2 & 11.2.3 | Annually | Nine months from the date of grant of licence and thereafter within the first month of each year being reported on. |
| (ii) Financial Provision as per Conditions 11.2.4 | As they occur | Within two weeks of the purchase, renewal or revision of the financial provision required under Condition 11.2.2 |

Note 1: Unless altered at the request of the Agency

SCHEDULE D :Specified Engineering Works

| Specified Engineering Works |
|---|
| Installation of security fencing and gates |
| Development of waste storage areas. |
| Provision of hardstanding area as per Condition 4.4 |
| Installation and provision of works as per Condition 4.10 |
| Installation of surface water and foul water systems |
| Installation of sumps or other drainage controls. |
| Installation of storage capacity for foul effluent. |
| Installation of bunded fuel storage areas. |
| Installation of any fire control measures |
| Installation of increased waste processing capacity. |
| Installation of waste processing or other equipment. |
| Any other works notified by the Agency. |

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 as outlined in Table E1.1. below.

Table E.1.1 Sewer Monitoring Location

| STATION |
|--------------------------|
| FW-1 ^{Note 1,2} |

Note 1 – FW-1 refers to the *Foul Sample Chamber MH*, Drawing 9938-02 of the waste licence application

Note 2 - Prior to completion of the installation of the foul water network as per Condition 4.12, the licensee shall monitor discharges to sewer at location(s) agreed with the Agency.

Table E.1.2 Sewer Monitoring Parameters and Frequencies

| Parameter | Monitoring Frequency | Sampling Method/Type |
|---------------------------------|-------------------------|----------------------|
| Flow to Sewer | Daily ^{Note 1} | |
| BOD | Quarterly | Grab |
| COD | Quarterly | Grab |
| Suspended Solids | Quarterly | Grab |
| Fats, Oil, Grease | Quarterly | Grab |
| Temperature | Quarterly | Grab |
| pH | Quarterly | Grab |
| Sulphates (as SO ₄) | Quarterly | Grab |
| Ammoniacal Nitrogen | Quarterly | Grab |
| Detergents (as MBAS) | Quarterly | Grab |

Note 1: To be estimated fortnightly until agreed monitoring system has been installed as per Condition 9.3.1

E.2: Dust

Dust monitoring locations shall be those as agreed with the Agency under Condition 9.2

Table E.2.1 Dust Monitoring Locations

| STATION |
|---------|
| D1 |
| D2 |

Table E.2.2 Dust Monitoring Frequency and Technique

| Parameter (mg/m ² /day) | Monitoring Frequency | Analysis Method/Technique |
|------------------------------------|--------------------------------------|-----------------------------------|
| Dust | Three times a year ^{Note 2} | 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.

Note 2: Twice during the period May to September, or as otherwise specified in writing by the Agency.

E.3: Noise

Noise monitoring locations shall be those as agreed with the Agency under Condition 9.2

Table E.3.1 Noise Monitoring Locations

| STATION |
|---------|
| N1 |
| N2 |
| N3 |
| N4 |

Table E.3.2 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 location shall be as outlined in Table E4.1. below

Table E.4.1 Surface Water Monitoring Location

| STATION |
|--------------------------|
| SW-1 ^{Note 1,2} |

Note 1 – SW-1 refers to the *SW Sample Chamber MH, Drawing 9938-02*

Note 2 – Prior to completion of the installation of the surface water network as per Condition 4.12, the licensee shall monitor surface water discharges at location(s) agreed with the Agency.

Table E.4.2 Surface Water Monitoring Parameters and Frequencies

| Parameter | Monitoring Frequency | Analysis Method/Technique |
|-------------------------|-----------------------------|--|
| Visual Inspection | Weekly | Not applicable |
| Oils, Fats and Greases | Quarterly ^{Note 2} | Standard Method ^{Note 1} |
| BOD | Quarterly ^{Note 2} | Electrometry / Titrimetry with nitrification inhibitor |
| COD | Quarterly ^{Note 2} | Digestion + Colorimetry/Titrimetry |
| Electrical Conductivity | Quarterly ^{Note 2} | Electrometry |
| pH | Quarterly ^{Note 2} | Electrometry |
| Total Suspended Solids | Quarterly ^{Note 2} | Gravimetry |
| Temperature | Quarterly ^{Note 2} | Thermometry |

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, 1025 Fifteenth Street, N.W., Washington DC 20005, USA.

Note 2 - Frequency of monitoring may change following completion of works area as per Condition 4.16

SCHEDULE F : Emission Limits

F.1 Emissions to Sewer^{Note 1}

| Parameter | Emission | Limit | Value |
|---------------------------------|--------------------|---------------------------------|-----------------------------|
| | Grab Sample (mg/l) | Daily Mean Concentration (mg/l) | Daily Mean Loading (kg/day) |
| Biological Oxygen Demand | 6000 | 5000 | 50 |
| Chemical Oxygen Demand | 18000 | 15000 | 150 |
| Suspended Solids | 2000 | 1500 | 15 |
| Fats, Oils, Grease | 100 | 100 | 1.0 |
| pH | 6-10 | 6-10 | - |
| Maximum Temperature | 42°C | 42°C | - |
| Ammoniacal Nitrogen | 100 | 70 | 0.7 |
| Detergents (as MBAS) | 100 | 100 | 1.0 |
| Sulphates (as SO ₄) | 500 | 400 | 4.0 |

Note 1: Maximum volume to be discharged in any one day: 10 cubic metres, maximum discharge in any one hour: 2 cubic meters

F.2 Dust Deposition Limits: (Measured at the monitoring points indicated in Table E.2.1)

| 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: (Measured at the monitoring points indicated in Table E.3.1.)

| Day dB(A) L _{Aeq} (30 minutes) | Night dB(A) L _{Aeq} (30 minutes) |
|---|---|
| 55 | 45 |

F.4: Emissions to Surface Water

Table F.4 Emissions to Surface Water

| Parameter | Emission Limit Value (mg/l) |
|------------------------|-----------------------------|
| Oils, Fats and Greases | 10 |
| BOD | 20 |
| PH | 6-10 |
| Total Suspended Solids | 30 |

SCHEDULE G: Waste Types

| Waste Types | Maximum Quantity per Annum (tpa) |
|-----------------------------|----------------------------------|
| Commercial and Industrial | 14,000 |
| Construction and Demolition | 3,000 |
| Total | 17,000 |

Signed on behalf of the said Agency

on the 26th day of **September, 2000**

Breda Sheehan

Authorised Person