

office



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**WASTE LICENCE
Recommended Decision**

Licence Register Number:	152-3
Applicant/Licensee:	Oxigen Environmental Limited
Location of Facility:	Robinhood Road, Ballymount, Dublin 22

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 waste baling station located at Robinhood Road, Ballymount, County Dublin. The maximum quantity of waste to be accepted at the facility is 160,000 tonnes per annum consisting of municipal waste and commercial waste contingent on the installation of an odour management system.

The facility will consist of a waste processing building where municipal waste and commercial waste will be baled prior to being transported off-site for disposal.

The licensee must manage and operate the facility to ensure that the activities do not cause environmental pollution. The licensee is required to carry out regular environmental monitoring and submit all monitoring results, and a wide range of reports on the operation and management of the facility to the Agency.

The licence sets out in detail the conditions under which **Oxigen Environmental Limited** will operate and manage this facility.

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Glossary of Terms

All terms in this licence should be interpreted in accordance with the definitions in the Waste Management Acts 1996 to 2003, (the Acts), unless otherwise defined in this section.

Aerosol	A suspension of solid or liquid particles in a gaseous medium.
Adequate lighting	20 lux measured at ground level.
AER	Annual Environmental Report.
Agreement	Agreement in writing.
Annually	At approximately twelve monthly intervals.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
Application	The application by the licensee for this licence.
Appropriate facility	A waste management facility, duly authorised under relevant law and technically suitable.
BAT	Best Available Techniques.
Bi-annually	All or part of a period of six consecutive months.
Biennially	Once every two years.
Biodegradable waste	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food, garden waste, sewage sludge, paper and paperboard.
BOD	5 day Biochemical Oxygen Demand.
CEN	Comité Européen De Normalisation – European Committee for Standardisation
COD	Chemical Oxygen Demand.
Construction and Demolition Waste	Wastes that arise from construction, renovation and demolition activities: Chapter 17 of the EWC or as otherwise may be agreed.
Containment boom	A boom which can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.
Daily	During all days of plant operation, and in the case of emissions, when emissions are taking place; with at least one measurement on any one day.
Day	Any 24 hour period.
Daytime	0800 hrs to 2200 hrs
dB(A)	Decibels (A weighted).
DO	Dissolved Oxygen.
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.
Emergency	Those occurrences defined in Condition 9.3.
EMP	Environmental Management Programme.
Emission Limits	Those limits, including concentration limits and deposition rates established in <i>Schedule B</i> of this licence.
Environmental Damage	Has the meaning given it in Directive 2004/35/EC
EPA	Environmental Protection Agency.
European Waste Catalogue (EWC)	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2000/532/EC and any subsequent amendment published in the Official Journal of the European Community.
Facility	Any site or premises used for the purposes of the recovery or disposal of waste.
Fortnightly	A minimum of 24 times per year, at approximately two week intervals.
GC/MS	Gas Chromatography/Mass Spectroscopy
Green waste	Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.
Heavy Metals	This term is to be interpreted as set out in "Parameters of Water Quality, Interpretation and Standards" published by the Agency in 2001. ISBN 1-84095-015-3.
HFO	Heavy Fuel Oil.
Hours of Operation	The hours during which the facility is authorised to be operational.
Hours of Waste Acceptance	The hours during which the facility is authorised to accept waste
ICP	Inductively Coupled Plasma Spectroscopy.
Incident	The following shall constitute an incident for the purposes of this licence: <ul style="list-style-type: none">a) an emergency;b) any emission which does not comply with the requirements of this licence;c) any exceedence of the daily duty capacity of the waste handling equipment;d) any trigger level specified in this licence which is attained or exceeded; and,e) any indication that environmental pollution has, or may have, taken place.
Industrial Waste	As defined in Section 5(1) of the Waste Management Acts 1996 to 2003.

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.
Installation	A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Acts 1992 and 2003 is or will be carried on, and shall be deemed to include any directly associated activity, which has a technical connection with the activity and is carried out on the site of the activity.
IPPC	Integrated Pollution Prevention & Control.
K	Kelvin.
kPa	Kilo Pascals.
Landfill Directive	Council Directive 1999/31/EC.
Leq	Equivalent continuous sound level.
Licence	A Waste Licence issued in accordance with the Acts.
Licensee	Oxigen Environmental Limited
Liquid Waste	Any waste in liquid form and containing less than 2% dry matter.
List I	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
List II	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
Local Authority	South Dublin County Council
Maintain	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to adequately perform its function.
Mass Flow Limit	An Emission Limit Value which is expressed as the maximum mass of a substance which can be emitted per unit time.
Mass Flow Threshold	A mass flow rate, above which, a concentration limit applies.
Monthly	A minimum of 12 times per year, at approximately monthly intervals.
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 installation/facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Oil Separator	Device installed according to the International Standard I.S.EN 858-2:2003 (Separator systems for light liquids, (e.g. oil and petrol)-Part 2: Selection of nominal size, installation, operation and maintenance.

Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
Recyclable Materials	Those waste types, such as cardboard, batteries, gas cylinders, etc, which may be recycled.
Regional Fisheries Board	Eastern Regional Fisheries Board.
Sanitary Authority	South Dublin County Council
Sanitary Effluent	Waste water from facility toilet, washroom and canteen facilities
Sample(s)	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
SOP	Standard Operating Procedure.
Specified Emissions	Those emissions listed in <i>Schedule B: Emission Limits</i> of this licence.
Specified Engineering Works	Those engineering works listed in <i>Schedule D: Specified Engineering Works</i> of this licence.
Standard Method	A National, European or internationally recognised procedure (eg, I.S. EN, ISO, CEN, BS or equivalent), as an in-house documented procedure based on the above references, a procedure as detailed in the current edition of "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), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or, an alternative method as may be agreed by the Agency.
Storm Water	Rain water run-off from roof and non-process areas.
The Agency	Environmental Protection Agency.
TOC	Total Organic Carbon.
Trade Effluent	Trade Effluent has the meaning given in the water pollution Acts 1977 and 1990
Trigger Level	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
Weekly	During all weeks of plant operation, and in the case of emissions, when emissions are taking place; with at least one measurement in any one week.

Decision & Reasons for the Decisions

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 will not contravene any of the requirements of Section 40(4) of the Waste Management Acts 1996 to 2003.

Part I Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Acts 1996 to 2003, the Environmental Protection Agency (the Agency) proposes, under Section 46(2) of the said Act to grant this Waste Licence to **Oxigen Environmental Limited** to carry on the waste activities listed below at **Robinhood Road, Ballymount, Dublin 22** subject to 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 Acts 1996 to 2003

Class 11.	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
Class 12.	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
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.

Part II Schedule of Activities Refused

None of the proposed activities as set out in the licence application have been refused.

Part III Conditions

Condition 1. Scope

- 1.1 Waste activities at this facility shall be restricted to those listed and described in Part I Activities Licensed and shall be as set out in the licence application or as modified under Condition 1.6 of this licence and subject to the conditions of this licence.
- 1.2 Activities at this facility shall be limited as set out in Schedule A: Limitations.
- 1.3 The facility shall be controlled, operated, and maintained and emissions shall take place as set out in this licence. All programmes required to be carried out under the terms of this licence, become part of this licence.
- 1.4 For the purposes of this licence, the facility authorised by this licence, is the area of land outlined in red on Drawing No. B.2 (a) *Site Plan* of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red colour. The licensed activities shall be the carried on only within the area outlined.
- 1.5 Waste Acceptance Hours and Hours of Operation
- 1.5.1 Waste shall be accepted at the facility only between the hours of 6:00 to 20:00 Monday to Saturday inclusive.
- 1.5.2 The facility shall be operated only during the hours of 6:00 to 20:00 Monday to Saturday inclusive..
- 1.5.3 **Waste shall not be accepted and the facility shall not operate on Sundays or on Bank Holidays without the agreement of the Agency.**
- 1.6 No alteration to, or reconstruction in respect of, the activity or any part thereof which would, or is likely to, result in
- (a) a material change or increase in:
- The nature or quantity of any emission,
 - The abatement/treatment or recovery systems,
 - The range of processes to be carried out,
 - The fuels, raw materials, intermediates, products or wastes generated, or
- (b) any changes in:
- Site management infrastructure or control with adverse environmental significance,
- shall be carried out or commenced without prior notice to, and without the agreement of, the Agency.
- 1.7 This licence is for the purposes of waste licensing under the Waste Management Acts 1996 to 2003 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.8 **This licence is being granted in substitution for the waste licence granted to the licensee on 18/12/01 and bearing Waste Licence Register No: 152-3. The previous waste licence (Register No: 152-3) is superseded by this licence.**

Reason: To clarify the scope of this licence.

Condition 2. Management of the Facility

2.1 Facility Management

2.1.1 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 nominated, suitably qualified and experienced, deputy shall be present on the facility at all times during its operation or as otherwise required by the Agency.

2.1.2 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience, as required and shall be aware of the requirements of this licence. In addition, the facility manager and his/her deputy shall successfully complete FAS waste management training programme or equivalent agreed with the Agency.

2.2 Environmental Management System (EMS)

2.2.1 The licensee shall **operate** and maintain an EMS. Within six months from the date of grant of this licence, the licensee shall submit to the Agency for its agreement a proposal for the **updating (where appropriate)** of the documented Environmental Management System (EMS) for the facility. The EMS shall **thereafter** be updated on an annual basis with amendments being **notified** to the Agency, as **part of the AER**.

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

2.2.2.1 Management and Reporting Structure.

2.2.2.2 Schedule of Environmental Objectives and Targets.

The licensee shall prepare a Schedule of Environmental Objectives and Targets. The Schedule shall as a minimum provide for a review of all operations and processes, including an evaluation of practicable options, for energy and resource efficiency, the use of cleaner technology, cleaner production, and the prevention, reduction and minimisation of waste, and shall include waste reduction targets. The Schedule shall include time frames for the achievement of set targets and shall address a five year period as a minimum. The Schedule shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER).

2.2.2.3 Environmental Management Programme (EMP)

The licensee shall, not later than six months from the date of grant of this licence, submit to the Agency for agreement an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.2.2.2. Once agreed the EMP shall be established and maintained by the licensee. It shall include:

- (b) designation of responsibility for targets;
- (c) the means by which they may be achieved;
- (d) the time within which they may be achieved.

The EMP shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER) (Condition 11.9).

A report on the programme, including the success in meeting agreed targets, shall be prepared and submitted to the Agency as part of the AER. Such reports shall be retained on-site for a period

of not less than seven years and shall be available for inspection by authorised persons of the Agency.

2.2.2.4 Documentation

- (i) The licensee shall establish and maintain an environmental management documentation system which shall be to the satisfaction of the Agency.
- (ii) The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

2.2.2.5 Corrective Action

The licensee shall establish procedures to ensure that corrective action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for initiating further investigation and corrective action in the event of a reported non-conformity with this licence shall be defined

2.2.2.6 Awareness and Training

The licensee shall establish and maintain procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment. Appropriate records of training shall be maintained.

2.2.2.7 Communications Programme

The licensee shall establish and maintain a Communications Programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility.

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. Infrastructure and Operation

- 3.1 The licensee shall establish all infrastructure referred to in this licence prior to the commencement of the licensed activities or as required by the conditions of this licence. **Notification shall be given to, and written approval received from, the Agency prior to commencement of baling at the facility in accordance with Condition 6.11.3**
- 3.2 Specified Engineering Works
 - 3.2.1 The licensee shall submit proposals for all Specified Engineering Works, as defined in *Schedule D: Specified Engineering Works*, of this licence, 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.
 - 3.2.2 All specified engineering works shall be supervised by a competent person(s) and that person, or persons, shall be present at all times during which relevant works are being undertaken.
 - 3.2.3 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, as appropriate, include the following information:-

- a) A description of the works;
- b) As-built drawings of the works;
- c) Any other information requested in writing by the Agency.

3.3 Facility Notice Board

3.3.1 The licensee shall provide and maintain an Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm.

3.3.2 The board shall clearly show:-

- a) the name and telephone number of the facility;
- b) the normal hours of opening;
- c) the name of the licence holder;
- d) an emergency out of hours contact telephone number;
- e) the licence reference number; and
- f) where environmental information relating to the facility can be obtained.

3.4 Facility Security

3.4.1 Security fencing and gates shall be installed and maintained. The base of the fencing shall be set in the ground. Subject to the implementation of the restoration and aftercare plan and to the agreement of the Agency, the requirement for such site security may be removed.

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

3.4.3 The licensee shall remedy any defect in the gates and/or fencing as follows:-

- (i) A temporary repair shall be made by the end of the working day; and
- (ii) A repair to the standard of the original gates and/or fencing shall be undertaken within three working days.

3.5 The licensee shall provide, and maintain an impermeable concrete surface in all areas of the facility, the surfaces shall be concreted and constructed to British Standard 8110 or an alternative as agreed by the Agency.

3.6 Facility Office

3.6.1 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.

3.6.2 The licensee shall provide and maintain a working telephone and a method for electronic transfer of information at the facility.

3.7 Waste Inspection and Quarantine Areas

3.7.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the facility.

3.7.2 These areas shall be constructed and maintained in a manner suitable, and be of a size appropriate, for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be clearly identified and segregated from each other.

- 3.7.3 Drainage from the **waste inspection area** shall be directed to **foul sewer** as shown in Drawing No. **D.1 Site Infrastructure**.
- 3.7.4 **The Waste Quarantine Area shall be secured and rendered impervious to the material stored therein with all drainage diverted for collection and safe disposal.**
- 3.8 The licensee shall provide and maintain weighbridge(s) at the facility.
- 3.9 Waste handling, ventilation and processing plant
- 3.9.1 Items of plant deemed critical to the efficient and adequate processing of waste at the facility (including *inter alia* waste loading vehicles and ejector trailers) shall be provided on the following basis:-
- a) 100% duty capacity;
 - b) 20% standby capacity available on a routine basis; and
 - c) Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.
- 3.9.2 Within three months from the date of grant of this licence, the licensee shall provide a report for the agreement of the Agency detailing the duty and standby capacity in tonnes per day, of all waste handling and processing equipment to be used at the facility. These capacities shall be based on the licensed waste intake, as per *Schedule A: Limitations*, of this licence.
- 3.9.3 The quantity of waste to be accepted at the facility on a daily basis shall not exceed the duty capacity of the equipment at the facility. Any exceedance of this intake shall be treated as an incident.
- 3.10 Tank and Drum Storage Areas
- 3.10.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.
- 3.10.2 All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:-
- (i) 110% of the capacity of the largest tank or drum within the bunded area; or
 - (ii) 25% of the total volume of substance which could be stored within the bunded area
- 3.10.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.10.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.10.5 The integrity and water tightness of all the bunding structures 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. This testing shall be carried out in accordance with any guidance published by the Agency.
- 3.11 Drainage system
- 3.11.1 **The drainage network shall be installed and maintained as shown on Drawing D.1 Site Infrastructure, unless otherwise indicated or agreed by the Agency.**
- 3.11.2 **All trade effluent and storm water from the vehicle washing area shall be discharged to foul sewer via silt trap and separator.**
- 3.11.3 The licensee shall install and maintain silt traps and oil separator at the facility to ensure that all storm water (**excluding storm water from roof buildings**) and trade effluent **excluding sanitary effluent** discharged

from the facility pass through a silt trap and oil separator prior to discharge. **For discharges to surface water, the separator shall be a Class I full retention separator. For discharges to foul sewer, the separators shall be Class II full retention separator.** The silt traps and separator shall be in accordance with I.S. EN 858-2:2003 (separator systems for light liquids). **A manual shut-off valve shall be installed at the separators.**

- 3.12 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.
- 3.13 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.
- 3.14 Sampling equipment shall be operated and maintained such that sufficient sample is collected to meet both internal monitoring requirements and those of the Agency. A separate composite sample or homogeneous sub-sample (of sufficient volume as advised) should be retained as required for EPA use.
- 3.15 The licensee shall clearly label and provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.

REASON: To provide for appropriate operation of the facility to ensure protection of the environment.

Condition 4. Interpretation

- 4.1 Emission limit values for emissions to atmosphere in this licence shall be interpreted in the following way:
- 4.1.1 Continuous Monitoring:
- (i) No 24 hour mean value shall exceed the emission limit value.
 - (ii) 97% of all 30 minute mean values taken continuously over an annual period shall not exceed 1.2 times the emission limit value.
 - (iii) No 30 minute mean value shall exceed twice the emission limit value.
- 4.1.2 For Non-Continuous Monitoring
- (i) For any parameter where, due to sampling/analytical limitations, a 30 minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.
 - (ii) For flow, no hourly or daily mean value, calculated on the basis of appropriate spot readings, shall exceed the relevant limit value.
 - (iii) For all other parameters, no 30 minute mean value shall exceed the emission limit value.
- 4.2 The concentration and volume flow limits for emissions to atmosphere specified in this licence shall be achieved without the introduction of dilution air and shall be based on gas volumes under standard conditions of :-
- 4.2.1 In the case of non-combustion gases:

- Temperature 273K, Pressure 101.3 kPa (no correction for oxygen or water content).
- 4.2.2 In the case of combustion gases:
Temperature 273K, Pressure 101.3 kPa, dry gas; 3% oxygen for liquid and gas fuels; 6% oxygen for solid fuels.
Emission limit values for emissions to sewer/waters in this licence shall be interpreted in the following way:-
- 4.2.3 Continuous monitoring:
- (i) No flow value shall exceed the specified limit.
 - (ii) No pH value shall deviate from the specified range.
 - (iii) No temperature value shall exceed the limit value.
- 4.2.4 Composite Sampling:
- (i) No pH value shall deviate from the specified range.
 - (ii) For parameters other than pH and flow, eight out of ten consecutive composite results, based on flow proportional composite sampling, shall not exceed the emission limit value. No individual result similarly calculated shall exceed 1.2 times the emission limit value.
- 4.2.5 Discrete Sampling
For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.
- 4.3 Where the ability to measure a parameter is affected by mixing before emission, then, with agreement from the Agency, the parameter may be assessed before mixing takes place.
- 4.4 Noise from the facility shall not give rise to sound pressure levels (Leq,T) measured at the noise sensitive locations of the facility which exceed the limit value(s).
- 4.5 Dust and particulate matter from the activity shall not give rise to deposition levels which exceed the limit value(s).

Reason: To clarify the interpretation of limit values fixed under the licence.

Condition 5. Emissions

- 5.1 No specified emission from the facility shall exceed the emission limit values set out in *Schedule B: Emission Limits* of this licence. There shall be no other emissions of environmental significance.
- 5.2 The licensee shall ensure that the activities shall be carried out in a manner such that emissions including odours do not result in significant impairment of, and/or significant interference with amenities or the environment beyond the facility boundary.
- 5.3 Emissions to Surface Water
- 5.3.1 **Unless otherwise agreed by the Agency, no trade effluent, leachate and/or contaminated storm water shall be discharged to surface water drains and surface water courses.**
 - 5.3.2 The trigger level for surface water discharges from the facility measured at monitoring point(s) TSW2 is:-

- Suspended Solids 35mg/l
- 5.3.3 No substance shall be discharged in a manner, or at a concentration, which, following initial dilution causes tainting of fish or shellfish.
- 5.4 There shall be no direct emissions to groundwater.
- 5.5 The licensee shall ensure that vermin, birds, flies, mud, dust, litter and odours do not give rise to nuisance at the facility or in the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.
- 5.6 Emissions to Sewer
- 5.6.1 No specific discharge or emission to sewer shall exceed the emission limit value set out in Schedule B: Emission Limits to Sewer. There shall be no other discharge or emission to sewer of environmental significance
- 5.6.2 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as out in *Schedule C*.
- 5.6.3 Monitoring and analytical equipment shall be operated and maintained as necessary so that monitoring accurately reflects the discharge or emission.
- 5.6.4 The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works and apparatus installed, in connection with the process effluent, and to take samples of the process effluent.
- 5.6.5 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring 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.
- 5.6.6 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence.
- 5.6.7 The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 5.6.8 The licensee shall at no time discharge or permit to be discharged into the sewer any liquid matter or thing which is or may be liable to set or congeal at average sewer temperature or is capable of giving off any inflammable 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.
- 5.6.9 In the event of any incident which relates to discharges to sewer, having taken place, the licensee shall notify the Agency and Sanitary Authority as soon as practicable after the incident.
- 5.6.10 Materials classifiable as 'Hazardous Wastes' under the Waste Management Acts 1996 to 2003, shall not be discharged to the foul sewer.
- 5.6.11 Trade effluent shall be screened prior to discharge to remove gross solids and avoid blockages in the sewer.

- 5.6.12 No substance shall be present in such concentrations as would constitute a danger to sewer maintenance personnel working in the sewerage system or would be damaging to the fabric of the sewer, or would interfere with the biological functioning of a downstream wastewater treatment works.
- 5.6.13 No discharge or 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.
- 5.6.14 Non-trade effluent wastewater (e.g. firewater, accidental spillages) which occurs on site shall not be discharged to the sewer without the prior authorisation of the Sanitary Authority.
- 5.6.15 The Licensee shall submit monitoring results to the Sanitary Authority on an annual basis.
- 5.6.16 The charge rate for the collection, treatment and disposal of trade effluent arising on site shall be in accordance with the South Dublin County Council Consolidated Water Charges Policy.
- 5.6.17 The Licensee shall maintain on-site an adequate supply of oil absorbent materials for the purpose of containing any oil leaks or spillages from any machinery on site. This condition does not excuse the Licensee from his / her obligations to notify the Agency and the Sanitary Authority in the event of such an occurrence.

Reason: To provide for the protection of the environment by way of control and limitation of emissions and to provide for the requirements of the Sanitary Authority in accordance with Section 52 of the Waste Management Acts 1996 to 2003.

Condition 6. Control and Monitoring

- 6.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and as in accordance with Schedule C of this licence:
- 6.1.1 Analysis shall be undertaken by competent staff in accordance with documented operating procedures.
- 6.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics determined.
- 6.1.3 Such procedures shall be subject to a programme of Analytical Quality Control using control standards with evaluation of test responses.
- 6.1.4 Where analysis is sub-contracted it shall be to a competent laboratory.
- 6.2 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring 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. Agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.
- 6.3 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission or discharge.

- 6.4 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.5 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 6.6 The licensee shall prepare a programme, to the satisfaction of the Agency, for the identification and reduction of fugitive emissions. This programme shall be included in the Environmental Management Programme.
- 6.7 The integrity and water tightness of all underground pipes and tanks and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 6.8 **Trade Effluent/Storm water**
- 6.8.1 A visual examination of the storm water discharge shall be carried out daily. A log of such inspections shall be maintained.
- 6.8.2 The drainage system, bunds, silt traps 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.
- 6.9 The licensee shall carry out a noise survey of the site operations annually. The survey programme shall be undertaken in accordance with the methodology specified in the 'Environmental Noise Survey Guidance Document' as published by the Agency.
- 6.10 **Litter Control**
- 6.10.1 The measures and infrastructure as described in **Attachment F.5 Litter Control** shall be applied to control litter at the facility.
- 6.10.2 All loose litter or other waste, placed on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed, subject to the agreement of the landowners, immediately and in any event by 10.00am of the next working day after such waste is discovered.
- 6.10.3 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.
- 6.11 **Dust/Odour Control**
- 6.11.1 All waste for disposal stored at the facility, shall be stored in suitably covered and enclosed containers within the Waste Processing Building, and shall be removed from the facility within **twenty four hours on weekdays and within forty eight hours on weekends**.
- 6.11.2 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.
- 6.11.3 **Prior to the commencement of baling of waste at the facility, the licensee shall install and provide adequate measures for the control of odours and dust emissions, including fugitive dust emissions, from the facility. Installation of an odour management system shall at a minimum include the following:-**
- 6.11.3.1 **Doors shall be close fitting and remain closed other than for the movement of personnel and materials, during the carrying on of the activity. Doors other than personnel doors**

shall have closing mechanisms fitted such that delivery/collection vehicles or personnel cannot over ride them and leave doors open during these services.

6.11.3.2 Negative pressures shall be maintained throughout the waste processing building to ensure that there is no significant escape of fugitive odours. The appropriate rates of air extraction shall comply with the requirements set out in *Odour Control - A Concise Guide* (Annex B) Prepared on behalf of the Department of the Environment 1980 (U.K.). Based on these figures the licensee shall submit proposals to the Agency for agreement for an air extraction system.

6.11.3.3 Unless otherwise agreed by the Agency, a commissioning period of 6 months length shall be carried out to ensure that odour is adequately controlled at the facility. During the commissioning period of the odour management system the applicant shall maintain records in accordance with Condition 11.10

6.11.3.4 Provision of 100% duty capacity and 20% stand by capacity, back ups and spares must be provided for the air handling, ventilation and abatement plant.

6.12 Operational Controls

6.12.1 At the end of the working day,:-

- (i) the floor of the waste processing building shall be cleaned and cleared of all waste and
- (ii) the conveyor belt and baler shall be cleared of all waste.

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

6.12.3 Fuels shall be stored only at appropriately bunded locations on the facility.

6.12.4 All tanks and drums shall be labelled to clearly indicate their contents.

6.12.5 There shall be no casual public access to the facility.

6.13 Nuisance Monitoring

The licensee shall inspect the facility and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, mud, dust and odours daily. The licensee shall maintain a record of all nuisance inspections.

Reason: To provide for the protection of the environment by way of treatment and monitoring of emissions and to provide for the requirements of the Sanitary Authority in accordance with Section 52 of the Waste Management Acts 1996 to 2003.

Condition 7. Resource Use and Energy Efficiency

7.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of grant of this licence. The audit shall be carried out in accordance with the guidance published by the Agency; "Guidance Note on Energy Efficiency Auditing". The energy efficiency audit shall be repeated at intervals as required by the Agency.

- 7.2 The audit shall identify all opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.
- 7.3 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into Schedule of Environmental Objectives and Targets.
- 7.4 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

Reason: To provide for the efficient use of resources and energy in all site operations.

Condition 8. Materials Handling

- 8.1 All waste processing shall be carried out inside the waste transfer building.
- 8.2 Waste Acceptance and Characterisation Procedures
- 8.2.1 The quantity of waste to be accepted at the waste processing building over a working day shall not exceed 260 tonnes during the commissioning period of the odour management system in accordance with Condition 6.11.3. After a satisfactory commissioning period the waste intake over a working day can be increased to 520 tonnes by the agreement of the Agency.**
- 8.2.2 Waste shall only be accepted at the facility, from Local Authority waste collection or transport vehicles or holders of waste permits, unless exempted or excluded, issued under **the Waste Management Acts 1996 to 2003**. Copies of these waste collection permits must be maintained at the facility.
- 8.2.3 The licensee **shall** maintain detailed written procedures for the acceptance and handling of **all** wastes.
- 8.2.3 Waste arriving at the facility shall be inspected at the point of entry to the facility and subject to this inspection, weighed, documented and directed to the Waste Transfer Building. Each load of waste arriving at the Waste Transfer Building shall be inspected upon tipping within this building. Only after such inspections shall the waste be processed for disposal or recovery.
- 8.2.4 Any waste deemed unsuitable for processing at the facility and/or in contravention of this licence shall be immediately separated and removed from the facility at the earliest possible time. Temporary storage of such wastes shall be in a designated Waste Quarantine Area. Waste shall be stored under appropriate conditions in the quarantine area to avoid putrefaction, odour generation, the attraction of vermin and any other nuisance or objectionable condition.
- 8.2.5 Waste shall be accepted at the facility only from known customers or new customers subject to initial waste profiling and waste characterisation off-site. The written records of this off-site waste profiling and 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.

- 8.3 Disposal or recovery of waste shall only take place in accordance with the conditions of this licence and in accordance with the appropriate National and European legislation and protocols.
- 8.4 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor. The waste shall be transported only from the site of the activity to the site of recovery/disposal in a manner which will not adversely affect the environment and in accordance with the appropriate National and European legislation and protocols.
- 8.5 The licensee shall ensure that waste prior to transfer to another person shall be classified packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.
- 8.6 Waste shall be stored in designated areas, protected as may be appropriate, against spillage and leachate run-off. The waste is to be clearly labelled and appropriately segregated.
- 8.7 No waste classified as green list waste in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No.259/1993, as amended) shall be consigned for recovery without the agreement of the Agency.
- 8.8 Unless approved in writing by the Agency the licensee is prohibited from mixing a hazardous waste of one category with a hazardous waste of another category or with any other non-hazardous waste.

<i>Reason: To provide for the appropriate handling of materials and the protection of the environment.</i>
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Condition 9. Accident Prevention and Emergency Response

- 9.1 The licensee shall, within six months of date of grant of this licence, ensure that a documented Accident Prevention Policy is in place which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.
- 9.2 The licensee shall **maintain** a documented Emergency Response Procedure. Within six months of date of grant of this licence, **the licensee shall submit to the Agency for its agreement, a proposal for updating (where appropriate) of the documented ERP for the facility.** This procedure shall be reviewed annually and updated as necessary.
- 9.3 Emergencies
- 9.3.1 In the event of a breakdown of equipment or any other occurrence which results in the closure of the transfer station building, any 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 transfer station building is returned to a fully operational status. Such a breakdown event will be treated as an emergency and rectified as soon as possible.

- 9.3.2 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.
- 9.3.3 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 notify the appropriate authorities.
- 9.4 In the event of an incident the licensee shall immediately:-
- (i) isolate the source of any such emission;
 - (ii) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
 - (iii) evaluate the environmental pollution, if any, caused by the incident;
 - (iv) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
 - (v) identify the date, time and place of the incident;
 - (vi) provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed with the Agency to:-
 - identify and put in place measures to avoid reoccurrence of the incident; and
 - identify and put in place any other appropriate remedial action.

Reason: To provide for the protection of the environment.

Condition 10. Closure, Restoration and Aftercare

- 10.1 Following termination, or planned cessation for a period greater than six months, of use or involvement of all or part of the site in the licensed activity, the licensee shall, to the satisfaction of the Agency, decommission, render safe or remove for disposal/recovery, any soil, subsoils, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution. The licensee shall carry out such tests, investigation or submit certification, as requested by the Agency, to confirm that there is no risk to the environment.

Reason: To make provision for the proper closure of the activity ensuring protection of the environment.

Condition 11. Notifications, Records and Reports

- 11.1 The licensee shall notify the Agency, in writing, one month prior to the intended date of commencement of the Scheduled Activities.
- 11.2 The licensee shall notify the Agency by both telephone and either facsimile or electronic mail, if available, to the Agency's Headquarters in Wexford, or to such

other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:

- 11.2.1 Any release of environmental significance to atmosphere from any potential emission point including bypasses.
- 11.2.2 Any emission which does not comply with the requirements of this licence.
- 11.2.3 Any malfunction or breakdown of key control equipment or monitoring equipment set out in *Schedule C: Control & Monitoring* which is likely to lead to loss of control of the abatement system.
- 11.2.4 Any incident with the potential for environmental contamination of surface water or groundwater, or posing an environmental threat to air or land, or requiring an emergency response by the Local Authority.

The licensee shall include as part of the notification, date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any emissions.

- 11.3 In the event of any incident which relates to discharges to sewer, having taken place, the licensee shall notify the Local and Sanitary Authority as soon as practicable, after such an incident.
- 11.4 In the case of any incident which relates to discharges to water, the licensee shall notify the Local Authority and the Eastern Regional Fisheries Board as soon as practicable after such an incident.
- 11.5 The licensee shall make a record of any incident. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident. The record shall include all corrective actions taken to; manage the incident, minimise wastes generated and the effect on the environment, and avoid recurrence. The licensee shall as soon as practicable following incident notification, submit to the Agency the incident record.
- 11.6 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.
- 11.7 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the facility.
- 11.8 The licensee shall as a minimum keep the following documents at the site:-
 - (i) the licences relating to the facility;
 - (ii) the current EMS for the facility;
 - (iii) the previous year's AER for the facility;
 - (iv) records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the facility;
 - (v) relevant correspondence with the Agency;
 - (vi) an up to date site drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points

and this documentation shall be available to the Agency for inspection at all reasonable times.

- 11.9 The licensee shall submit to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in *Schedule F* and shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 11.10 Unless otherwise instructed by the Agency the licensee shall submit to the Agency a monthly report on the quantities of waste received at the facility and baling details to include the following;
- (i) Daily quantity of waste received at the Baling Centre.
 - (ii) Daily quantity of waste baled at the facility.
 - (iii) Details of days and associated quantities of waste transferred from the Baling Centre offsite without baling and to where.
 - (iv) Details of the hourly operational status of the baler i.e. whether operating, on standby, inoperable due to breakdown or inoperable due to scheduled maintenance.
- 11.11 A full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices at this site. This record shall be maintained on a monthly basis and shall as a minimum contain details of the following:
- (i) The tonnages and EWC Code for the waste materials imported and/or sent off-site for disposal/recovery.
 - (ii) The names of the agent and carrier of the waste, and their waste collection permit details, if required (to include issuing authority and vehicle registration number).
 - (iii) Details of the ultimate disposal/recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit/licence details and issuing authority, if required.
 - (iv) Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
 - (v) Details of all wastes consigned abroad for Recovery and classified as 'Green' in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No. 259/1993, as amended). The rationale for the classification must form part of the record.
 - (vi) Details of any rejected consignments.
 - (vii) Details of any approved waste mixing.
 - (viii) The tonnages and EWC Code for the waste materials recovered/disposed on-site.
- 11.12 A record shall be kept of each consignment of **trade effluent, leachate and/or contaminated storm water** removed from the facility. The record shall include the following:-
- a) the name of the carrier;
 - b) the date and time of removal of **trade effluent, leachate and/or contaminated storm water** from the facility;
 - c) the volume of **trade effluent, leachate and/or contaminated storm water**, in cubic metres, removed from the facility on each occasion;
 - d) the name and address of the Waste Water Treatment Plant to which the **trade effluent, leachate and/or contaminated storm water** was transported; and

- e) any incidents or spillages of **trade effluent, leachate and/or contaminated storm water** during its removal or transportation.

11.13 Waste Recovery Reports

The licensee shall as part of the AER submit a report on the contribution by this facility to the achievement of the recovery targets stated in national and European Union waste policies and shall include the following:-

- (a) proposals for the contribution of the facility to the achievement of targets for the reduction of biodegradable waste to landfill as specified in the Landfill Directive; and
- (b) the separation of recyclable materials from the waste;

<i>Reason: To provide for the collection and reporting of adequate information on the activity.</i>

Condition 12. Financial Charges and Provisions

12.1 Agency Charges

12.1.1 The licensee shall pay to the Agency an annual contribution of €xx,xxx, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Acts 1996 to 2003. The first payment shall be a pro-rata amount for the period from the date of this licence to the 31st day of December, and shall be paid to the Agency within one month from the date of the licence. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Acts 1996 to 2003, and all such payments shall be made within one month of the date upon which demanded by the Agency.

12.1.2 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 in regard to items not covered by the said annual contribution.

12.2 Sanitary Authority Charges

12.2.1 The licensee shall pay to the Sanitary Authority **in accordance with the South Dublin County Council Consolidated Water Charges Policy** for trade effluent discharged to the foul sewer or such sum as may be determined from time to time, having regard to the variations in the cost of providing drainage and the variation in effluent reception and treatment costs. Payment to be made quarterly on demand.

12.2.2 The licensee shall pay an annual charge of **€1,800.00** to the Sanitary Authority towards the cost of monitoring the trade effluent. This amount will be revised from time to time. Payment to be made on demand.

12.3 Environmental Liabilities

The licensee shall as part of the AER provide an annual statement as to the measures taken or adopted at the site in relation to the prevention of environmental damage,

and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events (**including closure**) or accidents/incidents, as may be associated with the carrying on of the activity.

Reason: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment and to provide for the requirements of the Sanitary Authority in accordance with Section 52 of the Waste Management Acts 1996 to 2003.

SCHEDULE A: Limitations

A.1

The following waste related processes are authorised:

- i. Baling, repackaging processes
- ii. Storage of waste

No addition to these processes are permitted unless agreed in advance with the Agency.



A.2 Waste Acceptance

Table A.1 Waste Categories and Quantities

	PHASE 1	PHASE 2	PHASE 3
WASTE TYPE	MAXIMUM (TONNES PER ANNUM) ^{Note 1}	MAXIMUM (TONNES PER ANNUM) ^{Note 2}	MAXIMUM (TONNES PER ANNUM) ^{Note 3}
Household Waste and Commercial Waste	11,400	80,000	160,000
Industrial Waste	3,000	0	0
TOTAL	14,400^{Note 4}	80,000	160,000

Note 1: The maximum annual waste quantity to be accepted at the facility prior to installation of the odour management system and commencement of baling of waste at the facility in accordance with Condition 6.11.3.

Note 2: The maximum annual waste quantity to be accepted at the facility during the commissioning period of the odour management system in accordance with Condition 6.11.3.

Note 3: The maximum annual waste quantity to be accepted at the facility following a satisfactory commissioning period as agreed by the Agency in accordance with Condition 6.11.3.

Note 4: The individual limitation on waste streams may be varied with the agreement of the Agency subject to the overall total limit staying the same.



SCHEDULE B: Emission Limits

B.1 EMISSIONS TO AIR

Emission Point reference no: Emission point(s) to be agreed by the Agency

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

Dust Deposition Limits:

Measured at the monitoring points D1, D2 and D3 shown on Drawing No. J.1 (rev A) *Environmental Monitoring of the Article 14 reply received on 23/23/05.*

Level (mg/m ² /day) ^{Note 1}
350

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

B.2 Emissions to Water

Emission Point Reference No.: TSW1 and TSW2

Name of Receiving Waters: Robinhood Stream

Parameter	Emission Limit Value (mg/l)
BOD	35
Ammonia (as NH₄)	0.3
Sulphate	100
Chloride	100
Mineral Oils	5

B.3 Emission to Sewer

Emission Point Reference No.: E309499, N231110

Name of Receiving Waters: Foul Sewer on Robinhood Road

Location: SFW-1

Volume to be emitted: Maximum in any one day: 2.5 m³

Maximum rate per hour: 1 m³

Parameter	Emission Limit Value		
Temperature	42 °C (max.)		
PH	6 - 10		
	Grab Sample (mg/l)	Daily mean Concentration (mg/l)	Daily Mean Loading (kg/day)
BOD	1000	800	2.0
COD	3000	2400	6.0
Suspended Solids	1000	800	2.0
Sulphates (as SO₄)	1000	1000	2.5
Oils, Fats and Greases	100	100	0.25
Mineral Oils	10	10	0.025
Detergents	100	100	0.25

B.4. Noise Emissions

To be measured at any specified noise sensitive location.

Daytime dB(A) L_{Aeq} (30 minutes)	Night-time dB(A) L_{Aeq} (30 minutes)
55 ^{Note 1}	45 ^{Note 1}

Note 1: There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location.



SCHEDULE C: Control & Monitoring

C.1.1 Control of Emissions to Air

Emission Point Reference No.: Emission point(s) to be agreed with the Agency
Description of Treatment: Treatment system for ventilated gases to be agreed with the Agency in accordance with Condition 6.11.3.2

Control Parameter	Monitoring	Key Equipment ^{Note 1}
To be agreed by the Agency		

Note 1: The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.



C.1.2 Monitoring of Emissions to Air

Emission Point Reference No.: Emission point(s) to be agreed with the Agency

Parameter	Monitoring Frequency	Analysis Method/Technique
Ammonia	Weekly	Colorimetric Indicator Tubes ^{Note 1}
Hydrogen sulphide	Weekly	Colorimetric Indicator Tubes ^{Note 1}
Mercaptans	Weekly	Colorimetric Indicator Tubes ^{Note 1}
Amines	Bi-annually	NIOSH method 2010 ^{Note 1}
Odour units	Bi-annually	Olfactometric
Particulates	Bi-annually	Isokinetic/Gravimetric

Note 1: Or an equivalent method acceptable to the Agency



C.2.1 Control of Emissions to Water

Emission Control Location: Surface water discharge point TSW2

Description of Treatment: Oil interceptor/Silt Trap

Control Parameter	Monitoring	Key Equipment ^{Note 1}
Oil Removal	Mineral Oil content in water at discharge point	Class I Full Retention Oil Interceptor
Suspended Solids	Suspended Solids concentration in water at discharge point	Silt traps

Note 1: The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.

C.2.2 Monitoring of Emissions to Water

Emission Point Reference No.: TSW1 and TSW2

Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Weekly	pH electrode/meter
Temperature	Weekly	Thermometer
COD	Weekly	Standard Method
Total Ammonia	Weekly	Standard Method
Total Nitrogen	Weekly	Standard Method
Conductivity	Weekly	Standard Method
Visual Inspection	Daily	Sample and examine for colour and odour

C.3.1 Control of Emissions to Sewer

Emission Point Reference No.: TFW1

Description of Treatment: Ringsend Wastewater Treatment Plant

Equipment:

Control Parameter	Monitoring	Key Equipment ^{Note 1}
Oil Removal	Mineral Oil concentration in water at discharge point	Class II Full Retention Oil Separators
Suspended Solids	Suspended Solids concentration in water at discharge point	Silt trap

Note 1: The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.

C.3.2 Monitoring of Emissions to Sewer

Emission Point Reference No.: TFW1

Parameter	Monitoring Frequency	Analysis Method/Technique
Flow	Quarterly	On-line flow meter with recorder
Temperature	Monthly	Grab
pH	Monthly	Grab
Chemical Oxygen Demand	Monthly	Grab
Biochemical Oxygen Demand	Monthly	Grab
Suspended Solids	Monthly	Grab
Oils, fats & greases	Monthly	Grab
Mineral Oils	Monthly	Grab
Detergents	Monthly	Grab

C.4 Waste Monitoring

No waste monitoring is required.

C.5 Noise Monitoring

Emission Point Reference No.: N1, N2, N3, N4 and NSL1

Location: Location of monitoring points as shown on Drawing No. *Map. J.1 (rev A) Environmental Monitoring* of the Article 14 reply received on 23/02/02, unless otherwise agreed by the Agency.

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."

C.6 Ambient Monitoring

Air Monitoring

Emission Point Reference No.: D1, D2 and D3

Location: The monitoring points to be monitored as shown on Drawing No. *Map. J.1 (rev A) Environmental Monitoring of the Article 14* reply received on 23/02/05.

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Quarterly	Bergerhoff



SCHEDULE D: Specified Engineering Works

Specified Engineering Works

Development of the facility including installation of waste handling, processing, recycling/recovery infrastructure and installation of increased waste processing capacity as well as any abatement system(s).

Installation of air extraction system operating under negative pressures.

Installation **drainage network including** of silt traps and oil interceptors.

Installation of dust/odour system.

Any other works notified in writing by the Agency. Any other works notified in writing by the Agency.



SCHEDULE E: Reporting

Completed reports shall be submitted to:

The Environmental Protection Agency
Office of Environmental Enforcement
Regional Inspectorate
McCumiskey House
Richview
Clonskeagh Road
Dublin 14

or Any other address as may be specified by the Agency

Reports are required to be forwarded as required in the licence and as may be set out below:

Report	Reporting Frequency ^(Note 1)	Report Submission Date
Environmental Management Systems Updates	Annually	As part of the AER
Annual Environment Report (AER)	Annually	By 31 st March of each year.
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 thereafter as part of the AER.
Monitoring of Trade Effluent	Quarterly	Ten days after end of the quarter being reported on.
Monitoring of Surface Water Quality	Quarterly	Ten days after end of the quarter being reported on.
Dust Monitoring	Three times a year	As part of the AER.
Noise Monitoring	Annually	As part of the AER.
Drawing with Monitoring locations	-	Any amendments to be submitted as part of the AER.
Schedule of Objectives & Targets	-	As part of the AER
Any other monitoring	As they occur	Within ten days of obtaining results.

Note 1: Unless altered at the request of the Agency.

SCHEDULE F: Annual Environmental Report

Annual Environmental Report Content ^{Note 1}

Waste activities carried out at the facility.

Quantity and Composition of waste recovered, received and disposed of during the reporting period and each previous year (relevant EWC codes to be used).

Schedule of Environmental Objectives and Targets

Environmental management programme – report for previous year

Environmental management programme – proposal for current year

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

Summary of results and interpretations of environmental monitoring,

Drawing of monitoring locations (if amended)

Tank and pipeline testing and inspection report

Complaints summary.

Reported incidents summary

Review of Nuisance Controls.

Resource consumption summary.

Waste Recovery Report.

Volume of trade effluent/leachate and/or contaminated stormwater produced and volume transported off-site.

Energy efficiency audit report summary

Report on progress made and proposals being developed to minimise water demand and the volume of trade effluent discharge.

Development / Infrastructural works summary (completed in previous year or prepared for current year).

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

Review of Closure, Restoration & Aftercare management Plan

Environmental Liabilities Statement.

Any other items specified by the Agency.

Note 1: Content may be revised subject to the agreement of the Agency

Signed on behalf of the said Agency _____

on the xx day of xxxxxx, 2005

xxxxxxx,

Authorised Person