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INDUSTRIAL EMISSIONS LICENCE
Recommended Determination

Licence Register Number:	W0104-04
Company Register Number:	224173
Applicant:	Advanced Environmental Solutions (Ireland) Limited
Location of Installation:	Cappincur Industrial Estate, Cappincur, Tullamore, County Offaly

INTRODUCTION

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

Advanced Environmental Solutions (Ireland) Ltd is authorised to accept non-hazardous waste; to include municipal solid waste; commercial and industrial waste and construction and demolition waste. Recovery operations of dry recyclable waste include mechanical screening; manual picking line, ferrous/non ferrous metal separation and baling. Construction and demolition waste is sorted and bulked up for onward transport; and municipal solid waste is also bulked for transport off-site.

Advanced Environmental Solutions (Ireland) Limited's facility in Cappincur Industrial Estate, Cappincur, Tullamore, County Offaly was first issued with a waste licence (Register No. W0104-01) on 1 March 2004. A revised licence (Register No. W0104-02) was granted on 7 October 2009 to allow for an increase in the waste acceptance threshold. A further licence review (Register No. W0104-03) authorised an increase in waste intake from 50,000 tonnes to 60,000 tonnes per annum on 21st February 2014.

This licence (Register No. W0104-04) authorises an increase in waste acceptance from 60,000 tonnes per annum to 80,000 tonnes per annum.

The licensee must manage and operate the installation to ensure that the activities do not cause environmental pollution.

For the purposes of the EU Industrial Emissions Directive (2010/75/EU), the installation falls within the scope of Category 5.3 (b)(ii) Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, and excluding activities covered by Directive 91/271/EEC: (ii) pre-treatment of waste for incineration or co-incineration

The licence sets out in detail the conditions under which Advanced Environmental Solutions (Ireland) Limited will operate and manage this installation.

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Glossary of Terms

All terms in this licence should be interpreted in accordance with the definitions in the Environmental Protection Agency Act 1992 as amended, unless otherwise defined in the section.

Adequate Lighting	20 lux measured at ground level.
AER	Annual Environmental Report.
Agreement	Agreement in writing/electronically
Approval	Approval in writing/electronically.
Annually	All or part of a period of twelve consecutive months.
Application	The application by the licensee for this licence.
Appropriate Facility	A waste management facility or installation, duly authorised under relevant law and technically suitable.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
BAT	Best Available Techniques.
BAT conclusions	A document containing the parts of a BAT reference document laying down the conclusions on best available techniques, their description, information to assess their applicability, the emission levels associated with the best available techniques, associated monitoring, associated consumption levels and, where appropriate, relevant site remediation measures.
BAT reference document	A document drawn up by the Commission of the European Union in accordance with Article 13 of the Industrial Emissions Directive, resulting from the exchange of information in accordance with that Article of that Directive and describing, in particular, applied techniques, present emissions and consumption levels, techniques considered for the determination of best available techniques as well as BAT conclusions and any emerging techniques.
Biannually	At approximately six – monthly intervals.
Biennially	Once every two years.

BOD	5 day Biochemical Oxygen Demand (without nitrification suppression).
CBOD	5 day Carbonaceous Biochemical Oxygen Demand (with nitrification suppression).
CEN	Comité Européen De Normalisation – European Committee for Standardisation.
CID	Commission Implementing Decision establishing best available techniques (BAT) conclusions for waste treatment under Directive 2010/75/EU of the European Parliament and of the Council (EU) 2018/1147
COD	Chemical Oxygen Demand.
Construction and demolition (C&D) waste	Wastes that arise from construction, renovation and demolition activities: Chapter 17 of the LoW or as otherwise may be agreed.
Containment boom	A boom that can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.
CRO Number	Company Register Number.
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	0700 hrs to 1900 hrs.
dB(A)	Decibels (A weighted).
Diffuse Emissions	Non-channelled emissions which can result from ‘area’ sources (e.g. tanks) or ‘point’ sources (e.g. pipe flanges).
DO	Dissolved oxygen.
Documentation	Any report, record, results, 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.
Emission limits	Those limits, including concentration limits and deposition rates, established in <i>Schedule B: Emission Limits</i> , of this licence.

EMP	Environmental Management Programme.
Environmental damage	As defined in Directive 2004/35/EC.
EPA	Environmental Protection Agency.
Evening Time	1900hrs to 2300hrs
Facility	Any site or premises used for the purpose of the recovery or disposal of waste.
Fortnightly	A minimum of 24 times per year, at approximately two week intervals.
Gas Oil	Gas oil as defined in DIRECTIVE (EU) 2016/802 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 May 2016 relating to a reduction in the sulphur content of certain liquid fuels.
GC/MS	Gas chromatography/mass spectroscopy.
Green Waste	Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.
Groundwater	Has the meaning assigned to it by Regulation 3 of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010), as amended.
ha	Hectare.
Hazardous Substances	Substances or mixtures as defined in Article 3 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.
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.
Hours of operation	of The hours during which the installation is authorised to be operational.
Hours of waste acceptance	waste The hours during which the installation is authorised to accept waste.
ICP	Inductively coupled plasma spectroscopy.

IE	Industrial Emissions.
Incident	The following shall constitute an incident for the purposes of this licence: (i) an emergency; (ii) any emission which does not comply with the requirements of this licence; (iii) any malfunction or breakdown of key environmental abatement, control or monitoring equipment (iv) any exceedance of the daily duty capacity of the waste handling equipment; (v) any trigger level specified in this licence which is attained or exceeded; (vi) any indication that environmental pollution has, or may have, taken place.
Industrial Emissions Directive	Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (Recast).
Industrial waste	As defined in Section 5(1) of the Waste Management Act 1996 as amended.
Installation	A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Act 1992 as amended 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.
Irish Water	Irish Water, Colvill House, 24/26 Talbot Street, Dublin 1.
K	Kelvin.
kPa	Kilopascals.
$L_{Aeq,T}$	This is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T).
$L_{AF,T}$	The Rated Noise Level, equal to the L_{Aeq} during a specified time interval (T), plus specified adjustments for tonal character and/or impulsiveness of the sound.
Licensee	Advanced Environmental Solutions (Ireland) Limited, C/O Bord na Mona Offices, Main Street, Newbridge, Kildare, CRO Number: 224173.

Local Authority	Offaly County Council
List of Wastes (LoW)	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2014/955/EU, as amended by any subsequent amendment published in the Official Journal of the European Community.
Mass flow limit	An emission limit value expressed as the maximum mass of a substance that 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 intervals of approximately one month.
Municipal Waste	As defined in Section 5 (1) of the Waste Management Act 1996, as amended
Night-time	2300 hrs to 0700 hrs
Noise-sensitive location (NSL)	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other installation or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Odour-sensitive location	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other premises or area of high amenity which for its proper enjoyment requires the absence of odour at nuisance levels.
Oil separator	Device installed according to the International Standard I.S. EN 858-2:2003 (Separator system for light liquids, (e.g. oil and petrol) – Part 2: Selection of normal size, installation, operation and maintenance).
Potential emissions	Emissions which take place only under abnormal operating conditions. Examples include emissions from overpressure valves, bursting discs, and emergency generators.
PRTR	Pollutant Release and Transfer Register.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
Recyclable Material	Waste types such as cardboard, batteries, gas cylinders etc.

Relevant Substances	Those substances or mixtures defined within Article 3 of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) which, as a result of their hazardousness, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater and are used, produced and/or released by the installation.
Residual Waste	The fraction of collected waste remaining after a treatment or diversion step, which generally requires further treatment or disposal, including mixed municipal waste.
SAC	Special Area of Conservation designated under the Habitats Directive, Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora.
Sample(s)	Unless the context of this licence indicates to the contrary, the term samples shall include measurements taken by electronic instruments.
Sanitary effluent	Wastewater from installation toilet, washroom and canteen facilities.
Soil	The top layer of the Earth's crust situated between the bedrock and the surface. The soil is composed of mineral particles, organic matter, water, air and living organisms.
SOP	Standard operating procedure.
Source segregated waste	Waste which is separated at source; meaning that the waste is sorted at the point of generation into a recyclable fraction(s) for separate collection (e.g., paper, metal, glass, plastic, bulk dry recyclables, biodegradables, etc.) and a residual fraction. The expression 'separate at source' shall be construed accordingly.
SPA	Special Protection Area designated under the Birds Directive, Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds.
Specified emissions	Those emissions listed in <i>Schedule B: Emission Limits</i> , of this licence.
Standard method	A National, European or internationally recognised procedure (e.g. I.S. EN, ISO, CEN, BS or equivalent); or 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.
Storage	Includes holding of waste.

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 Services Act, 2007.
Trigger level	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
Waste	Any substance or object which the holder discards or intends or is required to discard.
Water Services Authority	Offaly County Council.
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.
WWTP	Waste water treatment plant.

1.1 Decision & Reasons for the Decision

The Environmental Protection 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 83(5) of the Environmental Protection Agency Act 1992 as amended.

The Agency also considers that the activity will not adversely affect the integrity of any European Site, and has decided to impose conditions for the purposes of ensuring they do not do so. It has determined that the activity, if managed, operated and controlled in accordance with the licence, will not have any adverse effect on the integrity of any of those sites.

The Agency has applied the Commission Implementing Decision of 2018/1147 establishing Best Available Techniques (BAT) under Directive 2010/75/EU of the European Parliament and of the Council, for **waste treatment** as a reference when setting licence conditions.

The Agency accordingly proposes to grant a licence to Advanced Environmental Solutions (Ireland) Limited to carry on the activity listed in *Part I, Schedule of Activities Licensed*, subject to the conditions set out in *Part I Schedule of Activities Licensed, subject to the conditions set out in Part III Conditions*; **such licence to take effect in lieu of Licence Register Number: W0104-03.**

In reaching this decision the Agency has considered the documentation relating to:

- **the existing licence, Register Number: W0104-03**
- the review application, Register Number: W0104-04 and the supporting documentation received from the applicant;
- the submission received;
- the Inspector's Report dated 3 April 2020 of the likely significant effects of the activity on European Sites.

It is considered that the Inspector's Report contains a fair and reasonable examination, evaluation and analysis of the likely significant effects of the activity on the environment, and adequately and accurately identifies, describes and assesses those effects. The assessment as reported in those documents is adopted as the assessment of the Agency. Having regard to this assessment, it is considered that the activity, if managed, operated and controlled in accordance with the licence will not result in the contravention of any relevant environmental quality standards or cause environmental pollution.

Having regard to the examination of environmental information in the Inspector's Report, and in particular to the content of the Environmental Impact Assessment Report (EIAR) and supplementary information provided by the licensee, and the third parties in the course of the application, it is considered that the potential significant direct and indirect effects of the activity on the environment are as follows

- Emissions to air
- Noise emissions
- Accidental leakages or spills

Having assessed those potential effects, the Agency has concluded as follows:

- **Fugitive emissions including dust and odour will be mitigated through: Operational Controls; Operation of abatement; and implementing monitoring, maintenance and control measures;**
- **Noise emissions will be mitigated through: imposing daytime, evening-time and night-time noise limits at noise sensitive locations; implementing monitoring, maintenance and control measures;**

- **Accidental leakages or spills will be mitigated through inspection and maintenance of bunds and tanks and accident and emergency requirements specified in the licence.**

Having regard to the effects (and interactions) identified, described and assessed throughout the Inspector's Report, it is considered that the monitoring, mitigation and preventative measures proposed will enable the activity to operate without causing environmental pollution, subject to compliance with the licence.

The conditions of the licence and the mitigation measures proposed will significantly reduce the likelihood of accidental emissions occurring and limit the environmental consequences of an accidental emission should one occur.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activity individually or in combination with other plans or projects is likely to have a significant effect on any European Site. In this context, particular attention was paid to the European Site at Charleville Wood SAC (Site Code: 000571).

The activity is not directly connected with or necessary to the management of any European Site and the Agency considered, for the reasons set out below, that it cannot be excluded, on the basis of objective information, that the activity, individually or in combination with other plans or projects, will have a significant effect on any European Site and accordingly determined that an Appropriate Assessment of the activity was required, and for this reason determined to require the applicant to submit a Natura Impact Statement. The reason for this decision is based on the possibility that significant effects are likely as a result of the hydrological connectivity from the installation through the Charleville Wood SAC (Site Code: 000571).

The Agency has completed the Appropriate Assessment of potential impacts on this site and has made certain, based on best scientific knowledge in the field and in accordance with the European Communities (Birds and Natural Habitats) Regulations 2011 as amended, pursuant to Article 6(3) of the Habitats Directive, that the activity, individually or in combination with other plans or projects, will not adversely affect the integrity of any European Site, in particular Charleville Wood SAC, having regard to conservation objectives and will not affect the preservation of the site at favourable conservation status if carried out in accordance with this licence and the conditions attached hereto for the following reasons:

- **Condition 5 of the licence requires that no specified emission from the installation 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.**
- **The licensee is required to protect the storm water drainage system by adhering to the appropriate waste acceptance, processing and storage conditions. The conditions require the licensee to discharge only uncontaminated storm water to the storm water drainage system.**
- **The licence requires the maintenance of appropriate trigger levels for set parameters at the storm water discharge point. This will ensure that corrective and preventative action is undertaken in the event of a breach of a trigger value.**
- **The licence contains standard conditions relating to the provision and maintenance of pipeline, tank and bund integrity.**
- **While there is potential for accidents and unplanned releases from the installation, it is considered that the conditions of the licence in relation to bunding and the protection of surface water and groundwater, are sufficient to ensure that accidental emissions from the activity will not impact on the qualifying interests of any of the European sites identified above. Furthermore, the licence specifies accident prevention and emergency response requirements.**

The Agency is satisfied that no reasonable scientific doubt remains as to the absence of adverse effects on the integrity of this European Site.

Part I Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Environmental Protection Agency Act 1992 as amended, the Agency proposes to determine the review of the existing licence (W0104-03) granted to:

Advanced Environmental Solutions (Ireland) Limited, c/o Bord na Mona Offices, Main Street, Newbridge, County Kildare, and CRO Number 224173

under Section 90(2) of the said Act to carry on the following activities:

Class 11.4 (b)(ii) – Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply): pre-treatment of waste for incineration or co-incineration;

and

11.1 – The recovery or disposal of waste in a facility, within the meaning of the Act of 1996, which facility is connected or associated with another activity specified in this Schedule in respect of which a licence or revised licence under Part IV is in force or in respect of which a licence under the said Part is or will be required.

at Cappincur Industrial Estate, Cappincur, Tullamore, County Offaly, subject to the following twelve Conditions, with the reasons therefor and associated schedules attached thereto.

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 Industrial Emissions Directive activities at this installation shall be restricted to those listed and described in *Part I Schedule of Activities Licensed*, and shall be as set out in the licence application or as modified under Condition 1.4 of this licence and subject to the conditions of this licence.
- 1.2 The licensee shall carry on the licensed activities in accordance with the limitations set out in *Schedule A: Limitations* of this licence.
- 1.3 For the purposes of this licence, the installation authorised by this licence is the area of land outlined in colour on Document 3.2.2 **Site Layout 1 5000 RevB-Layout 2 P** of the application. Any reference in this licence to “installation” shall mean the area thus outlined in red. The licensed activity shall be carried on only within the area outlined.
- 1.4 No alteration to, or reconstruction in respect of, the activity, or any part thereof, that would, or is likely to, result in
- (i) 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
- (ii) 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 approval of, the Agency.
- 1.5 The installation shall be controlled, operated and maintained, and emissions shall take place as set out in the licence. All programmes required to be carried out under the terms of this licence become part of this licence.
- 1.6 Waste Acceptance Hours and Hours of Operation
- 1.6.1 With the exception of emergencies, or as may be agreed by the Agency, waste shall be accepted at or dispatched from the installation only between the hours of 0600hrs and 0000hrs Monday to Saturday inclusive
- 1.6.2 The installation shall be operated only during the hours of 0700 and 2300hrs Monday to Saturday inclusive.
- 1.6.3 The installation shall not operate or accept/dispatch waste on Sundays or Bank Holidays without the agreement of the Agency.
- 1.7 This licence is for the purpose of licensing under the EPA Act 1992 as amended 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 shall have effect in lieu of the licence granted on 21st February 2014 (Register No W0104-03).

Reason: To clarify the scope of this licence.

Condition 2. Management of the Installation

2.1 Installation Management

- 2.1.1 The licensee shall employ a suitably qualified and experienced installation manager who shall be designated as the person in charge. The installation manager or a nominated, suitably qualified and experienced deputy shall be present on the installation 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.

2.2 Environmental Management System (EMS)

- 2.2.1 The licensee shall maintain and implement an Environmental Management System (EMS), which shall incorporate energy efficiency management. The EMS shall be reviewed by senior management for suitability, adequacy and effectiveness and updated on an annual basis.
- 2.2.2 The EMS shall include, as a minimum, the following elements:
- 2.2.2.1 Commitment of management, including senior management.
- 2.2.2.2 An environmental policy defined for the installation that includes the continuous improvement for the installation by the management.
- 2.2.2.3 Management and Reporting Structure and responsibility.
- 2.2.2.4 The necessary procedures, objectives and targets, in conjunction with financial planning and investment.
- 2.2.2.5 Procedures that ensure employee involvement in ensuring compliance with environmental legislation.
- 2.2.2.6 A procedure for checking performance by sectoral benchmarking on a regular basis including energy efficiency.
- 2.2.2.7 Schedule of Environmental Objectives and Targets
- The licensee shall prepare, maintain and implement 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, reduction in water consumption, reduction in effluent generation, optimisation of Cleaning in Place (CIP) system, the use of cleaner technology, cleaner production, odour and noise management, 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.
- 2.2.2.8 Environmental Management Programme (EMP)
- The licensee shall prepare, maintain and implement an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.2.2.7. The EMP shall include:

- designation of responsibility for targets;

- how they may be achieved;
- the time within which they may be achieved.

The EMP shall be reviewed annually.

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.

2.2.2.9 Documentation

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

2.2.2.10 Corrective and Preventative Action

- (i) The licensee shall establish, maintain and implement procedures to ensure that corrective and preventative action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for persons initiating further investigation and corrective and preventative action in the event of a reported non-conformity with this licence shall be defined.
- (ii) Where a breach of one or more of the conditions of this licence occurs, the licensee shall without delay take measures to restore compliance with the conditions of this licence in the shortest possible time and initiate any feasible preventative actions to prevent recurrence of the breach.
- (iii) All corrective and preventative actions shall be documented.

2.2.2.11 Internal Audits

The licensee shall maintain and implement a programme for independent internal audits of the EMS. Such audits shall be carried out at least once every three years. The audit programme shall determine whether the EMS is being implemented and maintained properly, and in accordance with the requirements of the licence. Audit reports and records of the resultant corrective and preventative actions shall be maintained as part of the EMS in accordance with Condition 2.2.2.9.

2.2.2.12 Awareness, Training and Competence

The licensee shall maintain and implement procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment to ensure awareness and competence in their work area. Appropriate records of training shall be maintained.

2.2.2.13 Communications Programme

The licensee shall maintain and implement a Public Awareness and Communications Programme to ensure that members of the public are informed, and can obtain information at the installation, at all reasonable times, concerning the environmental performance of the installation.

2.2.2.14 Maintenance Programme

The licensee shall maintain and implement a programme for maintenance of all plant and equipment based on the instructions issued by the manufacturer/supplier or installer of the equipment. Appropriate record keeping and diagnostic testing shall support this maintenance programme. The licensee shall clearly allocate

responsibility for the planning, management and execution of all aspects of this programme to appropriate personnel (see Condition 2.1 above). The maintenance programme shall use appropriate techniques and measures to ensure the optimisation of energy efficiency in plant and equipment.

2.2.2.15 Efficient Process Control

The licensee shall maintain and implement a programme to ensure there is adequate control of processes under all modes of operation. The programme shall identify the key indicator parameters for process control performance, as well as identifying methods for measuring and controlling these parameters. Abnormal process operating conditions shall be documented, and analysed to identify any necessary corrective action.

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 ensure, at all times after the grant of this licence that all infrastructure and all equipment required under this licence has been and is:
- (i) installed,
 - (ii) commissioned,
 - (iii) present on site, and
 - (iv) maintained in full working order.
- 3.2 Where any condition / schedule of this licence specifies any later deadline for installation of any piece of infrastructure or equipment, condition 3.1 shall apply as and from the deadline specified.
- 3.3 The licensee shall establish and maintain, for each component of the installation, all infrastructure referred to in this licence in advance of the commencement of the licensed activities in that component, or as required by the conditions of this licence. Infrastructure specified in the application that relates to the environmental performance of the installation and is not specified in the licence, shall be installed in accordance with the schedule submitted in the application.
- 3.4 The licensee shall have regard to the following when choosing and/or designing any new plant/infrastructure:
- 3.4.1 Energy efficiency, and
 - 3.4.2 The environmental impact of eventual decommissioning.
- 3.5 Installation Notice Board
- 3.5.1 The licensee shall, within one month of the date of grant of this licence, provide an Installation Notice Board on the installation so that it is legible to persons outside the main entrance to the installation. The minimum dimensions of the board shall be 1200 mm by 750 mm. The notice board shall be maintained thereafter.
- 3.5.2 The board shall clearly show:
- (i) the name and telephone number of the installation;
 - (ii) the normal hours of /operation;
 - (iii) the name of the licence holder;
 - (iv) an emergency out of hours contact telephone number;

- (v) the licence reference number; and
 - (vi) where environmental information relating to the installation can be obtained.
- 3.5.3 A plan of the installation clearly identifying the location of each storage and treatment area shall be displayed as close as is possible to the entrance to the installation. The plan shall be displayed on a durable material such that is legible at all times. The plan shall be replaced as material changes to the installation are made.
- 3.6 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.
- 3.7 In the case of composite sampling of aqueous emissions from the operation of the installation, a separate composite sample or homogeneous sub-sample (of sufficient volume as advised) shall be refrigerated immediately after collection and retained as required for EPA use.
- 3.8 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. The requirement with regard to off-site points is subject to the prior agreement of the landowner(s) concerned.
- 3.9 Tank, Container and Drum Storage Areas
- 3.9.1 All tank, container and drum storage areas shall be rendered impervious to the materials stored therein. Bunds shall be designed having regard to Agency guidelines ‘Storage and Transfer of Materials for Scheduled Activities’ (2004).
 - 3.9.2 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 that could be stored within the bunded area. All drainage from bunded areas shall be treated as contaminated unless it can be demonstrated to be otherwise. All drainage from bunded areas shall be diverted for collection and safe disposal, unless it can be deemed uncontaminated and does not exceed the trigger levels set for storm water emissions under Condition 6.11.
 - 3.9.3 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
 - 3.9.4 All tanks, containers and drums shall be labelled to clearly indicate their contents.
 - 3.9.5 All bunds shall be uniquely identified and labelled at the bund.
 - 3.9.6 The licensee shall apply a leak detection system in accordance with BAT to all storage tanks, container and drum storage areas that contain liquid material other than water.
- 3.10 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 installation. Once used, the absorbent material shall be disposed of at an appropriate facility.
- 3.11 Silt Traps and Oil Separators
- The licensee shall install and maintain silt traps and oil separators at the installation.
- (i) Silt traps to ensure that all storm water discharges, other than from roofs, from the installation pass through a silt trap in advance of discharge;
 - (ii) An oil separator on the storm water discharge from yard areas. The separator shall be a Class I full retention separator. The separator shall be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids)
- 3.12 Fire-water Retention

- 3.12.1 The licensee shall carry out a risk assessment to determine if the activity should have a fire-water retention facility. The licensee shall submit a report to the Agency for approval on the findings and recommendations of the assessment within nine months of the date of grant of this licence.
- 3.12.2 In the event that a significant risk exists for the release of contaminated fire-water, the licensee shall, based on the findings of the risk assessment, prepare and implement, with the approval of the Agency, a suitable risk management programme. The risk management programme shall be fully implemented within three months of date of notification by the Agency.
- 3.12.3 In the event of a fire or a spillage to storm water, the site storm water shall be diverted for collection.
- 3.12.4 The licensee shall examine (based upon the findings of the risk assessment in Condition 3.12.1) as part of the response programme in Condition 3.12.2 the need to provide automatic diversion of storm water for collection.
- 3.12.5 The licensee shall have regard to any guidelines issued by the Agency with regard to firewater retention.
- 3.13 All pumps sumps, storage tanks or other treatment plant chambers from which spillage of environmentally significant materials might occur in such quantities as are likely to breach local or remote containment or separators, shall be fitted with high liquid level alarms (or oil detectors as appropriate) within three months from the date of grant of this licence.
- 3.14 The provision of a catchment system to collect any leaks from flanges and valves of all over-ground pipes used to transport material other than water shall be examined. This shall be incorporated into a Schedule of Environmental Objectives and Targets set out in Condition 2. of this licence for the reduction in fugitive emissions.
- 3.15 All wellheads at the installation shall be adequately protected to prevent contamination or physical damage
- 3.16 The licensee shall maintain in a prominent location on the site a wind sock, or other wind direction indicator, which shall be visible from the public roadway outside the site.
- 3.17 The licensee shall operate a weather monitoring station on the site at a location agreed by the Agency, which records conditions of wind speed and wind direction.
- 3.18 **Dust and Odour Control**

The licensee shall maintain adequate measures for the control of dust and odour emissions, including fugitive dust emissions, from the installation. Installation of a dust and odour management system shall as a minimum include the following:

 - (i) Dust curtains (or equivalent approved by the Agency) shall be installed and maintained on the entry/exit points from the waste transfer buildings; Fast-action doors shall be installed on all entry/exit points used by waste vehicles containing odorous waste; These doors shall be kept closed when not in use.
 - (ii) Unless otherwise agreed by the Agency, all buildings handling or processing potentially odour forming waste shall be maintained at negative air pressure with ventilated gases being subject to treatment as may be agreed by the Agency.
 - (iii) Develop, maintain and implement a programme to demonstrate negative pressure and building envelope integrity throughout all the waste transfer buildings, to ensure there are no potential pathways for odorous emissions.
- 3.19 **Specified Engineering Works**
 - 3.19.1 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 in advance of the intended date of commencement of any

such works. No such works shall be carried out without the prior agreement of the Agency.

3.19.2 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.

3.19.3 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:

(i) A description of the works;

(ii) As-built drawings of the works; and

(iii) Any other information requested in writing by the Agency.

3.20 Installation Security

3.20.1 Security and stock-proof fencing and gates shall be maintained at the installation. Subject to the implementation of the Closure, Restoration and Aftercare Management Plan the requirement for such installation security may be removed.

3.20.2 The licensee shall maintain a CCTV monitoring system which records all waste vehicle movement into and out of the installation. The CCTV system shall be operated at all times with digital date stamping. Copies of recordings shall be kept on site and made available to the Agency on request.

3.20.3 There shall be no unauthorised public access to the installation.

3.20.4 Gates shall be locked shut when the installation is unsupervised.

3.20.5 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.

3.21 Installation Roads and Site Surfaces

3.17.1 Effective site roads shall be provided and maintained to ensure the safe and nuisance free movement of vehicles within the installation.

3.17.2 The licensee shall provide and maintain an impermeable concrete surface in all areas of the installation used for the movement, holding, storage or processing of waste. The concrete surface shall be constructed to British Standard 8110 or an alternative as agreed by the Agency. The licensee shall remedy any defect in concrete surfaces within five working days.

3.22 Installation Office

3.22.1 The licensee shall provide and maintain an office at the installation. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.

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

3.23 Waste Inspection and Quarantine Areas

3.23.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the installation.

- 3.23.2 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.
- 3.23.3 All drainage from these areas shall be directed to the trade effluent collection system.

3.24 Waste Treatment Infrastructure

- 3.24.1 Waste treatment infrastructure shall at a minimum comprise the following:
 - (i) Waste acceptance, inspection, quarantine, storage and treatment/processing areas;
 - (ii) Separate storage areas for all waste treatment outputs including any screened fractions;
- 3.24.2 Items of plant deemed critical to the efficient and adequate processing of waste at the installation (including inter alia waste loading vehicles and ejector trailers) shall be provided on the following basis:
 - (i) 100% duty capacity;
 - (ii) 20% standby capacity available on a routine basis; and,
 - (iii) Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment
- 3.24.3 The odour control system shall be provided on the following basis:
 - (i) 100% duty capacity; and
 - (ii) 50% standby capacity
- 3.24.4 The licensee shall prepare and maintain on site a record detailing the duty and standby capacity, in tonnes per day, of all waste handling and processing equipment to be used at the installation. These capacities shall be based on the licensed waste intake, as per Schedule A: Limitations, of this licence.
- 3.24.5 The quantity of waste to be accepted at the installation on a daily basis shall not exceed the duty capacity of the equipment at the installation. Any exceedance of this intake shall be treated as an incident.

3.25 Weighbridge and Wheel Cleaning

- 3.25.1 The licensee shall provide and maintain a weighbridge and wheel cleaner at the installation.
- 3.25.2 All waste arriving at or leaving from the installation shall be weighed at the weighbridge onsite.
- 3.25.3 The wheel cleaner shall be used by all vehicles leaving the installation, as required, to ensure that no wastewater, waste or storm water is carried off-site. All water from the wheel cleaning area shall be appropriately managed for re use or disposal.

3.26 Storm water management

- 3.26.1 Storm water management infrastructure shall be provided and maintained at the installation during operation and closure/restoration. As a minimum, the infrastructure shall be capable of the following:
 - (i) The collection/diversion of storm water run-off from all non-process yard areas
 - (ii) The prevention of discharge of contaminated storm water, trade effluent or leachate into storm water drains and courses

- 3.26.2 The licensee shall ensure that process effluent from within the waste transfer buildings is physically segregated from and managed separately to clean uncontaminated storm water, within 6 months of the date of grant of this licence.
- 3.26.3 The licensee shall provide a shut off valve on discharge lines to surface water.
- 3.27 All sanitary effluent and trade effluent shall drain to a bunded storage tank for holding prior to disposal off-site.
 - (i) The tank shall be fitted with high-level liquid alarms and a leak detection system.
 - (ii) Trade and sanitary effluent stored in the on-site storage tanks shall be tankered off-site in fully enclosed road tankers to an agreed Wastewater Treatment Plant where it shall be appropriately treated.
- 3.28 Construction and Demolition Area

The licensee shall maintain a construction and demolition waste recovery area. This infrastructure shall at a minimum comprise the following:

 - (i) an impermeable concrete slab;
 - (ii) collection and disposal infrastructure for all run-off; and
 - (iii) appropriate bunding to provide visual and noise screening.
 - 3.28.1 All stockpiles shall be adequately contained to minimise dust generation.
 - 3.28.2 All storage and processing shall be carried out in the waste transfer buildings.
 - 3.28.3 Only Construction and Demolition waste shall be accepted at this area. Wastes that are capable of being recovered shall be separated and shall be stored temporarily in this area in advance of being subjected to other recovery activities at the installation or transport off the installation.
 - 3.28.4 The licensee shall implement measures to minimise dust generation at this installation and shall as instructed by the Agency install a sprinkling irrigation system for the control of dust nuisance from the facility. Any remedial works necessary to control dust must be implemented within a time-scale to be agreed by the Agency.

Reason: *To provide for appropriate operation of the installation to ensure protection of the environment.*

Condition 4. Interpretation

- 4.1 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.
- 4.1 Noise

Noise from the installation shall not give rise to sound pressure levels measured at the installation boundary which exceed the limit value(s).
- 4.2 Dust and Particulate Matter

Dust and particulate matters 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 Emissions may be made from the specified emission points set out in *Schedule B: Emission Limits*, of this licence subject to compliance with the Emission Limit Values specified in that Schedule.
- 5.1.1 Uncontaminated storm water may be discharged to surface water.
- 5.1.2 Uncontaminated storm water may be emitted to groundwater or to soil.
- 5.1.3 Minor, diffuse and potential emissions may be emitted to air as specified in the application, or as approved by the Agency under Condition 1 of this licence.
- 5.2 Notwithstanding the requirements of Condition 5.1, there shall be no other emissions from the installation.
- 5.3 No emissions, including odours, from the activities carried on at the site shall result in an impairment of, or an interference with amenities or the environment beyond the installation boundary or any other legitimate uses of the environment beyond the installation boundary.
- 5.4 No substance shall be discharged in a manner, or at a concentration, that, following initial dilution, causes tainting of fish or shellfish.
- 5.5 The licensee shall ensure that all or any of the following:
- Vermin
 - Birds
 - Flies
 - Mud
 - Litter
 - Dust

associated with the activity do not result in an impairment of, or an interference with, amenities or the environment at the installation or beyond the installation boundary or any other legitimate uses of the environment beyond the installation boundary. Any method used by the licensee to control or prevent any such impairment/interference shall not cause environmental pollution.

Reason: *To provide for the protection of the environment by way of control and limitation of emissions*

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: Control & Monitoring*, of this licence.
- 6.1.1 Sampling and analysis shall be undertaken by competent staff in accordance with documented operating procedures. Unless otherwise approved by the Agency, sampling and analysis of emissions to atmosphere shall be carried out by ISO 17025 accredited persons/organisations, with accreditation for the relevant scope of sampling and analysis, and in accordance with the Agency's air monitoring policy.
- 6.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics shall be determined.

- 6.1.3 Such procedures shall be subject to a programme of Analytical Quality Control using appropriate control standards with evaluation of test responses.
- 6.1.4 Where any analysis is sub-contracted, it shall be outsourced to a competent laboratory.
- 6.2 The licensee shall ensure that:
- (i) sampling and analysis for all parameters listed in the schedules to this licence; and
 - (ii) any reference measurements for the calibration of automated measurement systems;
- shall be carried out in accordance with CEN-standards. If CEN standards are not available, ISO, national or international standards that will ensure the provision of data of an equivalent scientific quality shall apply.
- 6.3 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 approved 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. The use of alternative equipment, other than in emergency situations, shall be as approved by the Agency.
- 6.4 Monitoring and analysis equipment shall be installed, operated and maintained as necessary so that all monitoring accurately reflects the emission/discharge.
- 6.5 The licensee shall ensure that groundwater monitoring well sampling equipment is available or installed on-site at the installation and is fit for purpose at all times. The sampling equipment shall be to Agency specifications.
- 6.6 All treatment/abatement and emission control equipment shall be calibrated and maintained in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.7 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended as required or approved by the Agency following evaluation of test results.
- 6.8 The licensee shall prepare a programme, to the satisfaction of the Agency, for the identification and reduction of fugitive emissions using an appropriate combination of best available techniques. This programme shall be included in the Environmental Management Programme.
- 6.9 The integrity and water tightness of all tanks, bunding structures, containers and underground pipes and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee prior to use. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. This testing shall be carried out in accordance with any guidance published by the Agency. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 6.10 The storm water drainage system (i.e., gullies, manholes, any visible drainage conduits and such other aspects as may be required by the Agency), 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. The licensee shall maintain a drainage map on site. The drainage map shall be reviewed annually and updated as necessary.
- 6.11 Storm Water
- 6.11.1 A visual examination of the storm water discharges shall be carried out daily. A log of such inspections shall be maintained.
 - 6.11.2 The licensee shall maintain suitable trigger levels for pH, conductivity, COD, suspended solids, mineral oils, chloride and ammonia. The licensee shall have a response programme to address any exceedance of the trigger values such that storm waters exceeding these levels will be diverted for retention and tankered off-site for suitable disposal. The licensee shall have regard to the Environmental Protection Agency "Guidance on the setting of

trigger values for storm water discharges to off-site surface waters at EPA IPPC and Waste licensed facilities” when maintaining the suitable trigger levels.

6.12 Noise

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 ‘Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)’ as published by the Agency.

6.13 Litter Control

6.13.1 All loose litter or other waste, placed on or in the vicinity of the installation, 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.

6.13.2 The licensee shall ensure that all vehicles delivering waste to and removing waste from the installation are appropriately covered.

6.14 Dust/Odour Control

6.14.1 The licensee shall undertake, at a frequency to be agreed or directed by the Agency, and in any case, no less than once every three years, an odour impact assessment. The assessment shall identify and quantify all significant odour sources at the installation and shall include an assessment of the suitability and adequacy of the odour control system. Any recommendations arising from the odour impact assessment shall be implemented following agreement by the Agency.

6.14.2 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.

6.15 The licensee shall, at a minimum of one-week intervals inspect the facility and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, mud, dust and odours. The licensee shall maintain a record of all nuisance inspections

6.16 Vermin and Flies

6.16.1 The licensee shall establish, maintain and implement a programme for the control and eradication of vermin and fly infestations at the installation. This proposal should include as a minimum: operator training, details on the rodenticides and insecticides to be used, mode and frequency of application and measures to contain sprays within the installation boundary

6.16.2 No chemicals shall be used for fly control except as part of a programme for the control and eradication of fly infestations.

6.17 Monitoring Locations

The licensee shall maintain an appropriately scaled drawing showing all the monitoring locations that are stipulated in this licence including any noise-sensitive locations and private wells to be monitored. The drawing shall include the eight-digit national grid reference of each monitoring point.

6.18 Pollutant Release and Transfer Register (PRTR)

The licensee shall submit a PRTR data report for the site. The pollutants and/or wastes to be included in the PRTR shall be determined by reference to EC Regulations No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register. The PRTR shall be prepared in accordance with any relevant Agency guidance and shall be submitted electronically in the format specified by the Agency.

- 6.19 The licensee shall maintain a Data Management System for collation, archiving, assessing and graphically presenting the monitoring data generated as a result of this licence.
- 6.20 Groundwater monitoring shall be carried out in accordance with *Schedule C.6 Groundwater Monitoring*.

Reason: *To provide for the protection of the environment by way of treatment and monitoring of emissions.*

Condition 7. Resource Use and Energy Efficiency

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site as required by the Agency. The audit shall be carried out in accordance with the guidance published by the Agency, "Guidance Note on Energy Efficiency Auditing".
- 7.2 The audit shall identify all practicable 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 The licensee shall ensure that waste generated in the carrying on of the activity shall be prepared for re-use, recycling or recovery or, where that is not technically or economically possible, disposed of in a manner which will prevent or minimise any impact on the environment.
- 8.2 Waste sent off-site for recovery or disposal
 - 8.2.1 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor. The waste shall be transported from the site of the activity to the site of recovery/disposal only in a manner that will not adversely affect the environment and in accordance with the appropriate National and European legislation and protocols.
 - 8.2.2 Waste sent off-site for recovery or disposal shall be transferred only to an appropriate facility.
- 8.3 The licensee shall ensure that, in advance of transfer to another person, waste shall be classified, packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.
- 8.4 The loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run-off.
- 8.5 Waste and materials shall be stored in designated areas, protected as may be appropriate against spillage and leachate run-off. The waste and materials shall be clearly labelled and appropriately segregated.

- 8.6 Waste for disposal/recovery off-site shall be analysed in accordance with *Schedule C: Control & Monitoring*, of this licence.
- 8.7 The licensee shall neither import waste into the State nor export waste out of the State except in accordance with the relevant provisions of Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14th June 2006 on shipments of waste and associated national regulations.
- 8.8 Waste Acceptance and Characterisation Procedures
- 8.8.1 The licensee shall maintain and implement detailed written procedures and criteria for:
- (i) basic characterisation, compliance testing, acceptance, on-site verification and handling of all wastes arriving at the installation;
 - (ii) rejection of unacceptable incoming waste; and
 - (iii) ensuring adequate storage capacity exists in advance of waste acceptance
- 8.8.2 Waste shall be accepted at the installation only from known waste producers or new waste producers subject to initial waste profiling and basic characterisation offsite. The written records of this off-site waste profiling and characterisation shall be retained by the licensee for all active waste producers and for a two-year period following termination of licensee/waste producer agreements.
- 8.8.3 Waste shall only be accepted at the installation from local authority waste collection or transport vehicles or holders of valid waste collection permits, unless exempted or excluded, issued under the Waste Management Act 1996 as amended. Copies of these waste collection permits shall be maintained at the installation.
- 8.8.4 Waste arriving at the installation shall be inspected and have its documentation checked at the point of entry to the installation and subject to this verification, weighed, documented and directed to an appropriate area within the waste transfer buildings. Each load of waste arriving at the installation shall be inspected prior to and during unloading. Only after such inspections shall the waste be processed for disposal or recovery.
- 8.8.5 Any waste deemed unsuitable for processing at the installation and/or in contravention of this licence shall be immediately separated and removed from the installation 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.
- 8.8.6 A record of all inspections of incoming waste loads shall be maintained.
- 8.8.7 The licensee shall implement and maintain a system of tracking the quantities, location within the installation, type and date of arrival of waste as part of the waste acceptance and characterisation procedure.
- 8.8.8 No hazardous waste shall be accepted at the installation
- 8.8.9 The licensee shall maintain a list of the List of Waste codes that are authorised for acceptance at the installation. New waste codes may be added to the list if agreed by the Agency.
- 8.9 Unless agreed by the Agency the licensee shall not dispose of any waste that has been accepted at installation for the purpose of a recovery activity. This condition shall not apply to non-recyclable waste that is separated for disposal by the licensee from the incoming waste.
- 8.10 Waste Storage Plan
- 8.10.1 The licensee shall maintain and implement a Waste Storage Plan for all waste and wastewater stored and held at the installation.

8.10.2 The Waste Storage Plan shall be adequate to ensure compliance with all conditions of this licence and shall be to the satisfaction of the Agency.

8.10.3 The Waste Storage Plan shall include:

- the recommendations of the Fire Risk Assessment required by Condition 9.5 of this licence;
- a limit on the total quantity of waste to be stored at the installation at any one time;
- maximum stockpile sizes in designated storage areas including maximum volume, height, length, width and area, and minimum separation distances;
- a limit on the maximum storage or holding period for each type of waste in designated storage areas;
- limitations, as may be necessary, on waste storage arrangements to be used to prevent odours arising;
- a drawing or plan of the location of each waste type and the means of storage for each waste type (e.g. as loose waste, baled, in sealed containers);
- details of the drainage system super-imposed on the above drawing or plan; and
- a designated fire quarantine area that is
 - i) available at all times to aid separation and management of wastes during a fire incident and
 - ii) is different to the quarantine area set aside for unacceptable wastes.

8.10.4 Waste storage and holding practices at the installation shall comply at all times with the Waste Storage Plan.

8.10.5 Where bales of waste are stored, the licensee shall maintain and implement a bale identity and tracking system. Each bale shall be labelled with:

- Its date of production
- Its content and LoW code; and
- The name of the location where the bale was produced and its licence register number

8.10.6 Waste accepted or generated at the installation shall be stored or held only in designated areas that have been identified in the Waste Storage Plan.

8.10.7 All designated areas for storage or holding of waste shall be:

- clearly labelled;
- appropriately segregated; and
- visibly or physically delineated by walls, dividers, painted lines or marks on the ground or other methods acceptable to the Agency.

8.10.8 The Emergency Response Procedure as required under Condition 9 of this licence shall include an up-to-date copy of the Waste Storage Plan.

8.10.9 Unless otherwise agreed by the Agency, the maximum quantity of waste stored at the installation at any one time shall be restricted by the Waste Storage Plan.

8.11 Operational Controls

8.11.1 Dry recyclable materials shall be stored internally within the waste transfer building unless otherwise agreed by the Agency.

- 8.11.2 Mechanically recovered marketable waste produced at the installation may be stored outdoors under conditions that will not diminish the integrity or value of the recovered waste or lead to nuisance emissions including waste, dust and odour. All such storage areas shall be covered except as may be agreed by the Agency.
- 8.11.3 All potentially odour forming waste for disposal stored overnight at the facility shall be stored in suitably covered and enclosed containers, and shall be removed from the facility within 48 hours of its arrival to avoid odour nuisance.
- 8.11.4 The floor of the waste transfer building shall be cleaned on a weekly basis and on a daily basis where odour forming waste is handled. The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion such bays are emptied, or as a minimum on a weekly basis.
- 8.11.5 There shall be no unauthorised public access or scavenging at the facility.
- 8.11.6 No dirty vehicles with the potential to foul the public road shall be permitted to exit the site.
- 8.11.7 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 8.11.8 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay
- 8.12 Each load of waste dispatched to landfill shall be accompanied by documentation verifying the type of treatment carried out on the waste and, in the case of municipal waste or treated municipal waste, its biodegradable content.
- 8.13 Only waste that has been subject to treatment may be dispatched for disposal at a landfill facility. Treatment shall reflect published EPA guidance as set out in Municipal Solid Waste Pre-treatment and Residuals Management, EPA, 2009. With the agreement of the Agency, this condition shall not apply to:
 - (i) Inert waste for which treatment is not technically feasible; and
 - (ii) Other waste for which such treatment does not contribute to the objectives of the Landfill Directive as set out in Article 1 of the Directive by reducing the quality of the waste or the hazards to human health or the environment.

Reason: To provide for the appropriate handling of material and the protection of the environment

Condition 9. Accident Prevention and Emergency Response

- 9.1 The licensee shall, ensure that a documented Accident Prevention Procedure is in place that addresses 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, ensure that a documented Emergency Response Procedure is in place, that addresses any emergency which may originate on-site. This procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.
- 9.3 Incidents
 - 9.3.1 In the event of an incident the licensee shall immediately:
 - (i) carry out an investigation to identify the nature, source and cause of the incident and any emission arising therefrom;

- (ii) isolate the source of any such emission;
 - (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) notify the Agency as required by Condition 11.3 of this licence.
- 9.3.2 Where an incident or accident that significantly affects the environment occurs, the licensee shall, without delay take measures to limit the environmental consequences of the incident or accident and to prevent further incident or accident.
- 9.3.3 The licensee shall provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed by the Agency, to:
 - (i) identify and put in place measures to avoid recurrence of the incident; and,
 - (ii) identify and put in place any other appropriate remedial actions.
- 9.4 Emergencies
 - 9.4.1 In the event of a breakdown of equipment or any other occurrence which results in the closure of the installation for more than 48 hours, any waste arriving, or in the case of putrescible waste, already accepted at the installation, shall be transferred directly to an alternative authorised facility until the installation is returned to a fully operational status. The breakdown of equipment or any other occurrence which results in the closure of the installation, regardless of duration, shall be treated as an emergency and rectified as soon as possible.
 - 9.4.2 All significant spillages occurring at the installation shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects. No waste shall be burnt within the boundaries of the installation. A fire at the installation shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.
 - 9.4.3 No waste shall be burnt within the boundaries of the installation. A fire at the installation shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.
- 9.5 The licensee shall arrange every three years or as directed by the Agency, for the completion, by an independent and appropriately qualified consultant, of a fire risk assessment for the installation. The assessment shall examine all relevant factors on site that impinge on fire risk and prevention. The assessment shall have regard to any guidelines issued by the Agency with regard to fire risk assessment. A report on the fire risk assessment shall be prepared and notified to the Agency as part of the first AER, in accordance with Condition 11.9
- 9.6 Any recommendations in the fire risk assessment shall be implemented according to a schedule that is satisfactory to the Agency.

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

Condition 10. Closure, Restoration and Aftercare Management

- 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, subsoil, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution. A final validation report to include a certificate of completion to demonstrate there is no continuing risk to the environment shall be submitted to the Agency within three months of termination or planned cessation of the activity.
- 10.2 Closure, Restoration and Aftercare Management Plan (CRAMP)
- 10.2.1 The licensee shall maintain a fully detailed and costed plan for the closure, restoration and long-term aftercare of the site or part thereof.
- 10.2.2 The plan shall be reviewed annually and proposed amendments thereto notified to the Agency for agreement as part of the AER. No amendments may be implemented without the agreement of the Agency.
- 10.2.3 The licensee shall have regard to the Environmental Protection Agency’s Guidance on Assessing and Costing Environmental Liabilities (2014) and, as appropriate, Guidance on Financial Provision (2015), when implementing Condition 10.2.1 above.
- 10.3 The Closure, Restoration and Aftercare Management Plan (CRAMP) shall include, as a minimum, the following:
- (i) a scope statement for the plan;
 - (ii) the criteria that define the successful closure and restoration and aftercare of the activity or part thereof, which ensures minimum impact on the environment;
 - (iii) a programme to achieve the stated criteria;
 - (iv) where relevant, a test programme to demonstrate the successful implementation of the plan;
 - (v) details of the long-term supervision, monitoring, control, maintenance and reporting requirements for the restored facility; and
 - (vi) details of the costings for the plan and the financial provisions to underwrite those costs.

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

Condition 11. Notification, Records and Reports

- 11.1 The licensee shall submit the reports, proposals and submissions required by this licence by the deadlines specified. The licensee shall not be in compliance with the requirements of this condition unless and until it has submitted every report, proposal and submission, the deadline for which has passed.
- 11.2 The licensee shall carry out every action required by the Agency, and arising out of such reports, proposals or submission, by such deadline as the Agency may specify. The licensee shall not be in compliance with the requirements of this condition unless and until it has carried out every such action.

11.3 The licensee shall notify the Agency by both telephone and either email or webform, 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:

- (i) an incident or accident as defined by the glossary;
- (ii) any release of environmental significance to atmosphere from any potential emissions point including bypasses;
- (iii) any breach of one or more of the conditions attached to this licence;
- (iv) any malfunction or breakdown of key environmental abatement, control or monitoring equipment; and
- (v) any incident or accident as defined in the glossary 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. All details required to be communicated must be in accordance with any guidance provided by the Agency.

11.4 The following shall be notified, as soon as practicable after the occurrence of any incident which relates to a discharge to water:

- (i) Inland Fisheries Ireland in the case of discharges to receiving waters
- (ii) Irish Water and/or Water Services Authority in the case of any incident where the discharge(s) have been identified as upstream of a drinking water abstraction point.

11.5 The licensee shall make a record of any notification made under Condition 11.3. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident or accident. The record shall include all corrective actions taken to manage the incident or accident, minimise wastes generated and the effect on the environment, and avoid recurrence. In the case of a breach of a condition, the record shall include measures to restore compliance.

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 (if provided), 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 installation.

11.8 The licensee shall as a minimum ensure that the following documents are accessible at the site:

- (i) the licences relating to the installation;
- (ii) the current EMS for the installation including all associated procedures, reports, records and other documents;
- (iii) the previous year's AER for the installation;
- (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 installation;
- (v) relevant correspondence with the Agency;
- (vi) up-to-date site drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points;
- (vii) up-to-date Standard Operational Procedures for all processes, plant and equipment necessary to give effect to this licence or otherwise to ensure that standard operation of such processes, plant or equipment does not result in unauthorised emissions to the environment;
- (viii) any elements of the licence application or EIA documentation referenced in this licence.

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 E: Annual Environmental Report*, of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 11.10 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 LoW 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) details of all waste consigned abroad for Recovery and classified as ‘Green’ in accordance with the EU Shipment of Waste Regulations (Council Regulation EEC No. 1013/2006, as may be amended). The rationale for the classification must form part of the record;
 - (v) details of any rejected consignments;
 - (vi) details of any approved waste mixing;
 - (vii) the results of any waste analyses required under *Schedule C: Control & Monitoring*, of this licence; and
 - (viii) the tonnage and LoW Code for the waste materials recovered/disposed on-site.
- 11.11 The licensee shall maintain a computer-based record for each load of waste arriving at and departing from the installation. The licensee shall record the following:
- (i) The date and time
 - (ii) the name of the carrier (including if appropriate, the waste carrier registration details);
 - (iii) the vehicle registration number;
 - (iv) the trailer, skip or other container unique identification number (where relevant);
 - (v) the name of the producer(s)/collector(s) of the waste as appropriate;
 - (vi) the name of the waste facility (if appropriate) from which the load originated including
 - (vii) the waste licence or waste permit register number;
 - (viii) a description of the waste including the associated LOW codes;
 - (ix) the quantity of the waste, recorded in tonnes;
 - (x) details of the treatment to which the waste has been subjected;
 - (xi) the classification and coding of the waste, including whether MSW or otherwise;
 - (xii) whether the waste is for disposal or recovery and if recovery for what purpose;
 - (xiii) the name of the person checking the load; and
 - (xiv) 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
- 11.12 A record shall be kept of each consignment of trade effluent, leachate and or contaminated storm water removed from the installation. The record shall include the following:
- (i) the name of the carrier;
 - (ii) the date and time of removal of trade effluent, leachate and/or contaminated storm water from the installation;
 - (iii) the volume of trade effluent, leachate and/or contaminated storm water, in cubic metres, removed from the installation on each occasion;

- (iv) the results of any waste analyses required under Schedule C.3: Tankered Effluent and Waste Analysis, of this licence;
 - (v) the name and address of the treatment plant to which the trade effluent, leachate and/or contaminated storm water was transported; and
 - (vi) 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 Annual Environmental Report for the site submit a report on the contribution by this installation to the achievement of the waste recovery objectives stated in Condition 2.2.2.7 and as otherwise may be stated in National and European Union waste policies and shall, as a minimum, include the following:
- (i) the recovery of metals;
 - (ii) the recovery of C & D derived waste materials;
 - (iii) the separation and recovery of other recyclable materials
- 11.14 The licensee shall submit report(s) electronically as required by the conditions of this licence to the Agency's Headquarters in Wexford, or to such other Agency office as may be specified by the Agency.
- 11.15 All reports shall be certified accurate and representative by the installation manager or nominated, suitably qualified and experienced deputy.

Reason: *To provide for the collection and reporting of adequate information on the activity.*

Condition 12. Financial Charges and Provisions

12.1 Agency Charges

- 12.1.1 The licensee shall pay to the Agency an annual contribution of **€10,582** 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 Environmental Protection Agency Act 1992 as amended. The first payment shall be a pro-rata amount for the period from the date of grant of this licence to the 31st day of December, and shall be paid to the Agency within one month from the date of grant 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 Environmental Protection Agency Act 1992 as amended, 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 defray its costs in regard to items not covered by the said annual contribution.

12.2 Environmental Liabilities

- 12.2.1 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, as appropriate 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.

- 12.2.2 The licensee shall arrange for the revision by an independent and appropriately qualified consultant, of a comprehensive and fully costed revised Environmental Liabilities Risk Assessment (ELRA) which addresses the liabilities from past and present activities. The assessment shall include those liabilities and costs identified in Condition 10 for execution of the CRAMP. A report on this assessment shall be submitted for approval and agreement by the Agency within twelve months of date of grant of this licence
- 12.2.3 The ELRA shall be reviewed as necessary to reflect any significant change on site, and in any case, every three years following initial agreement. Review results are to be notified as part of the AER.
- 12.2.4 The licensee shall within 12 months of date of grant of this licence, and to the satisfaction of the Agency, make financial provision to cover any liabilities associated with the operation (including closure, restoration and aftercare). The amount of financial provision held shall be reviewed and revised as necessary, but at least annually. Proof of renewal or revision of such financial indemnity shall be included in the annual 'Statement of Measures' report identified in Condition 12.2.1.
- 12.2.5 The licensee shall revise the cost of closure, restoration and aftercare annually and any adjustments shall be reflected in the financial provision made under Condition 12.2.3.
- 12.2.6 The licensee shall have regard to the Environmental Protection Agency's Guidance on Assessing and Costing Environmental Liabilities (2014) and Guidance on Financial Provision (2015) and the baseline report when implementing Conditions 12.2.2, 12.2.3 and 12.2.4 above.

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

SCHEDULE A: Limitations

A.1. Limitations on the installation

The following waste related processes are authorised:

- (i) Shredding, screening; sorting; separating; baling; repackaging of dry recyclable waste
- (ii) Storage of construction and demolition waste
- (iii) Storage of waste

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



A.2 Waste Acceptance

Table A.2 Waste Categories and Quantities

Waste Type		Maximum ^{Note2} (Tonnes Per Calendar Year)
	Municipal Solid Waste ^{Note 1}	40,000
	Commercial and Industrial /Other	20,000
	Construction & Demolition	20,000
Non-Hazardous Waste Total		80,000

Note 1: Any proposals to accept other compatible non-hazardous waste types must be agreed in advance by the Agency.

Note 2: The limitation on individual non-hazardous waste types may be varied with the approval of the Agency subject to the total limit for non-hazardous waste staying the same.

Table A.2.2. List of Waste Codes authorised for waste acceptance

'List of Waste' (LoW) Code	Description of LoW
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
17 01 01	Concrete
17 01 02	Bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02 01	Wood
17 02 02	Glass
17 02 03	Plastic
17 04 01	copper, bronze, brass
17 04 02	Aluminium
17 04 03	Lead
17 04 04	Zinc
17 04 05	iron and steel
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
17 05 04	soil and stones other than those mentioned in 17 05 03
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01,
20 03 01	mixed municipal waste
20 03 07	bulky waste

SCHEDULE B: Emission Limits

B.1 Emissions to Air

There shall be no emissions to air of environmental significance.

B.2 Emissions to Water

There shall be no emissions to water of environmental significance.

B.3 Emissions to Sewer

There shall be no process effluent emissions to sewer.

B.4 Noise Emissions

Daytime dB L _{Ar,T} (30 minutes)	Evening time dB L _{Ar,T} (30 minutes)	Night-time dB L _{Aeq,T} (15-30 minutes) ^{Note 1}
55	50	45

Note 1: During night time hours, there shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise-sensitive location.

B.5 Ambient Air Limits

Dust Deposition Limits:

- Location:**
- D1 (North western corner of installation)
 - D2 (North eastern corner of installation)
 - D3 (South eastern corner of installation)
 - D4 (South western corner of installation)

Parameter	Limit Value ^{Note 1}
Total dust deposition	350 mg/m ² /day

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

SCHEDULE C: Control & Monitoring

C.1.1. Control of Emissions to Air

There shall be no emissions to air of environmental significance.



C.1.2. Monitoring of Emissions to Air

There shall be no emissions to air of environmental significance.



C.2.1. Control of Emissions to Water

There shall be no emissions to water of environmental significance.



C.2.2. Monitoring of Emissions to Water

There shall be no emissions to water of environmental significance.

C.2.3. Monitoring of Storm Water Emissions

Emission Point Reference No:

SW1

Location:

E235613 N225125

Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Weekly	Standard method
Temperature	Weekly	Standard method
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.
Total Suspended Solids (TSS)	Weekly	Standard method
Total Organic Carbon	Weekly	Standard Method



C.2.4 Control of storm water emissions

Control Parameter	Monitoring	Key Equipment Note 1
Suspended solids Mineral oils/Total hydrocarbons	Suspended solids/silt & Mineral oils/Total hydrocarbons removal	Class I Full Retention Interceptor. Shut off valve Silt Trap

Note1: The licensee shall maintain appropriate access to stand -by/spares to the operation of the abatement equipment. **Storm waters exceeding trigger levels shall be diverted for retention and tankered off-site for suitable disposal.**



C.3.1. Control of Emissions to Sewer

There shall be no process effluent emissions to sewer.



C.3.2. Monitoring of Emissions to Sewer

There shall be no process effluent emissions to Sewer.



C.4 Waste Monitoring and Trade Effluent Analysis

Waste Class	Frequency	Parameter	Method
Other ^{Note 1}	To be agreed by the Agency	To be agreed by the Agency	To be agreed by the Agency
Trade effluent sent off site for disposal	Quarterly	BOD, COD, Metals, Mineral Oils, Chloride, Ammonia(NH ₃), Sulphate, Suspended Solids, pH	Standard Method

Note 1: Analytical requirements to be determined on a case by case basis.



C.5 Noise Monitoring

N1	E235639 N225268	West Corner of installation
N2	E235717 N225270	North East Corner of installation
N3	E235697 N225130	South East Corner of installation
N4	E235623 N225144	South West corner of installation

and noise sensitive locations as agreed/directed by the Agency.

Period	Minimum Survey Duration
Daytime	A minimum of 3 sampling periods at each noise monitoring location
Evening-time	A minimum of 1 sampling period at each noise monitoring location.
Night-time ^{Note 1}	A minimum of 2 sampling periods at each noise monitoring location.

Note 1: Night-time measurements should be made between 2300hrs and 0400hrs, Sunday to Thursday, with 2300hrs being the preferred start time.



C.6 Ambient Monitoring

Air Monitoring

Locations:

- D1 (North western corner of installation)
- D2 (North eastern corner of installation)
- D3 (South eastern corner of installation)
- D4 (South western corner of installation)

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Quarterly	Bergerhoff

Note 1: Twice during May to September



Groundwater Monitoring

Location: GW-1, GW2, GW3

Parameter	Monitoring Frequency	Analysis Method/Techniques
pH	Biannually	pH electrode/meter
COD	Biannually	Standard Method
Nitrate	Biannually	Standard Method
Total Ammonia	Biannually	Standard Method
Total Nitrogen	Biannually	Standard Method
Conductivity	Biannually	Standard Method
Chloride	Biannually	Standard Method
Fluoride	Biannually	Standard Method
Relevant Hazardous Substances <small>Note1</small>	Biannually	Standard Method
Total Ammonia	Quarterly	Standard Method
Diesel Range Organics	Quarterly	Standard Method
Arsenic	Annually	Standard Method
Mercury	Annually	Standard Method
Sulphate	Annually	Standard Method
Total Organic Carbon	Annually	Standard Method
Faecal Coliforms	Annually	Standard Method
Total Coliforms	Annually	Standard Method
Groundwater Level	Annually	Standard Method
Visual Inspection	Quarterly	

Note 1: The relevant hazardous substances for monitoring shall be identified by the licensee by undertaking a risk based assessment. The licensee shall have regard to the 'Classification of Hazardous and Non-Hazardous Substances in Groundwater' issued by the Agency.

Schedule D: Specified Engineering Works

Specified Engineering Works
Construction of new buildings, roofs or enclosures. Any other works notified in writing by the Agency.



SCHEDULE E: Annual Environmental Report

Annual Environmental Report Content ^{Note 1}
<p>Emissions from the installation.</p> <p>Waste management record.</p> <p>Resource consumption summary.</p> <p>Complaints summary.</p> <p>Schedule of Environmental Objectives and Targets.</p> <p>Environmental management programme – report for previous year.</p> <p>Environmental management programme – proposal for current year.</p> <p>Noise monitoring report summary.</p> <p>Ambient monitoring summary.</p> <p>Tank and pipeline assessment report.</p> <p>Reported incidents summary.</p> <p>Energy efficiency audit report summary.</p> <p>Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated.</p> <p>Report on progress made and proposals being developed to minimise water demand and the volume of trade effluent discharges.</p> <p>Development/Infrastructural works summary (completed in previous year or prepared for current year).</p> <p>Reports on financial provision made under this licence, management and staffing structure of the installation, and a programme for public information.</p> <p>Review of Closure, Restoration & Aftercare Management Plan.</p> <p>Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities).</p> <p>Environmental Liabilities Risk Assessment Review (every three years or more frequently as dictated by relevant on-site change including financial provisions).</p> <p>Any other items specified by the Agency.</p>

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



Signed on behalf of the said Agency _____
 On the xx day of xxxxx, 201X xxxxxxxxxxxx **Authorised Person**