

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

WASTE LICENCE
PROPOSED DECISION

Waste Licence	46-1
Register Number:	
Applicant:	Tegral Building Products Limited
Location of Facility:	Ballylinan, County Laois

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Reasons for the Proposed Decision

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

Part I: Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Environmental Protection Agency (the Agency) proposes, under Section 40(1) of the said Act to grant this Waste Licence to Tegral Building Products Limited, William Street, Athy, County Kildare to carry on the waste activities listed below at Ballylinan, County Laois subject to 11 No. conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

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

Class 1: Deposit on, in or under land (including landfill).

Class 4: Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.

INTERPRETATION

Act	The Waste Management Act, 1996 (No. 10 of 1996).
Agreement	Agreement in writing.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
Application	The application by the licensee for this waste licence, including any other material submitted to the Agency in writing by the licensee between the date of the application and the date of grant of this licence.
BATNEEC	Best Available Technology Not Entailing Excessive Cost as defined in section 5 (2) of the Act.
Biodegradable waste	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food and garden waste, and paper and paperboard.
Commercial waste	As defined in Section 5 (1) of the Act.
Containment boom	A boom which can contain spillages and prevent these from entering drains or watercourses.
Daytime	0800 hrs to 2200 hrs.
Emission	As defined in Section 5 (1) of the Act.
Environmental Pollution	As defined in Section 5 (1) of the Act.
European Waste Catalogue (EWC)	The EWC is a harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 94/3/EC and any subsequent amendment published in the Official Journal of the European Community.
Facility	That area or areas defined under Condition 1.2
Hazardous Waste	As defined in Section 4 (2) of the Act.
Household Waste	As defined in Section 5 (1) of the Act.
Inert Waste	Waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.
Industrial waste	As defined in Section 5 (1) of the Act.
Incident	Any reference to an incident in this licence means an incident as defined in Condition 3.1

defined in Condition 3.1.

Landfill	As defined in Section 5 (1) of the Act.
Leachate	Any liquid percolating through the deposited waste and emitted from or contained within a landfill as defined in Section 5 (1) of the Act.
Licence	A Waste Licence issued in accordance with the Act.
Licensee	Tegral Building Products Ltd.
List I/II Organics	Substances classified pursuant to EC Directives 76/464/EEC and 80/68/EEC
Liquid Waste	Any waste in liquid form and containing less than 20% dry matter.
Maintain	Keep in a fit state, including such regular inspection, servicing and repair as may be necessary to adequately perform its function.
Monthly	At least 12 times per year, at approximately monthly intervals.
Municipal Waste	Municipal waste as defined in Section 5 (1) of the Act.
Night-time	2200 hrs to 0800 hrs.
Non hazardous waste	Non-Hazardous Waste is any waste which is not a hazardous waste as defined in the Act.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
Sludge	The accumulation of solids resulting from chemical coagulation, flocculation and/or sedimentation after water or wastewater treatment.
Specified Emissions	Those emissions listed in Schedule G of this licence.
Specified Engineering Works	Those engineering works listed in Schedule E of this licence.
Trigger Level	A parameter value which when achieved or exceeded requires certain actions to be taken.
Waste	As defined in Section 4(1) of the Act.
Waste disposal activity	Includes the activities referred to in Section 4 of the Act and listed in the Third Schedule thereto.
Waste recovery activity	Includes the activities referred to in Section 4 of the Act and listed in the Fourth Schedule thereto.
Working Day	08:30 to 18:00 Monday to Friday inclusive and 10:00 to 16:00 on Saturdays.
Working Face	The area of the site in which waste other than cover material is being deposited.

Part II CONDITIONS

CONDITION 1 SCOPE

- 1.1 The waste activities authorised by this licence are listed and described in *Schedule A: Waste Activities*. Waste activities at the facility shall be restricted to those listed in Schedule A and any restrictions set down therein.
- 1.2 Waste activities shall be restricted to the area of land outlined in red on Drawing No. 8 "Site Layout Plan - Tegral Drawing No. 201-554/1 (Mar 1998)" of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3 Wherever a Condition of this licence requires the licensee to submit a plan, programme, or proposal to the Agency for its agreement, the licensee shall subsequently modify such documentation in accordance with, and within the time stated in, any written instructions from the Agency. The actions described therein shall be carried out within any timescale specified in writing by the Agency but shall not be undertaken without the prior written agreement of the Agency.
- 1.4 This licence is for the purposes of waste licensing under the Waste Management Act 1996 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.5 Where the Agency considers that a non-compliance with the Conditions of this licence has occurred, it may serve a notice on the licensee specifying:
 - a) that only those wastes as specified, if any, in the notice are to be accepted at the facility after the date set down in the notice;
 - b) that the licensee shall undertake the works stipulated in the notice, and/or otherwise comply with the requirements of the notice as set down therein, within the time-scale contained in the notice; and,
 - c) that the licensee shall carry out any other requirement specified in the notice.

When the notice has been complied with, the licensee shall provide written confirmation that the requirements of the notice have been carried out. No waste, other than that which is stipulated in the notice, shall be accepted at the facility until written confirmation is received from the Agency that the notice is withdrawn.

Reason: To clarify the scope of this licence.

CONDITION 2 MANAGEMENT OF THE ACTIVITY

- 2.1 Environmental Management System
 - 2.1.1 The licensee shall within eighteen months from the date of grant of this licence, submit to the Agency for its agreement a proposal for a documented Environmental Management System (EMS) for the facility. Following the agreement of the Agency, the licensee shall establish and maintain such a system. The EMS shall be updated on an annual basis with amendments being submitted to the Agency for agreement.

2.1.2 The EMS shall include as a minimum those elements specified in the Conditions 2.2 to 2.8 below:

2.2 Schedule of Environmental Objectives and Targets

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

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

2.3 Environmental Management Programme

2.3.1 The licensee shall, within twelve months from the date of grant of this licence, submit to the Agency for its agreement an Environmental Management Programme (EMP). The EMP shall include a time-scale for achieving the Schedule of Objectives and Targets and shall comply with any other guidance issued by the Agency.

2.3.2 The EMP shall include, as a minimum, the information specified in *Schedule B: Content of the Environmental Management Programme*. The EMP shall be reviewed and submitted to the Agency for its agreement annually.

2.4 Corrective Action

2.4.1 The licensee shall establish and maintain written Corrective Action Procedures to ensure that corrective action is taken should specified requirements to this licence not be fulfilled.

2.5 Awareness and Training

2.5.1 The licensee shall establish and maintain Awareness and Training Procedures for identifying training needs and for providing appropriate training, for personnel whose work is related to the licensed facility. Written records of training shall be maintained.

2.6 Management Structure

2.6.1 Within nine months from the date of grant of this licence, the licensee shall submit written details of the management structure of the facility for the agreement of the Agency. Any proposed changes in the management structure shall be submitted in writing to the Agency for its agreement. Written details of the management structure shall include the following information:

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

2.7 Communications

2.7.1 Within six months from the date of grant of this licence, the licensee shall submit for agreement to the Agency a Communications Programme to ensure that

members of the public can obtain information concerning the environmental performance of the facility at all reasonable times.

2.8 Annual Environmental Report

2.8.1 The licensee shall submit to the Agency for its agreement, within twelve months from the date of grant of this licence, and within one month of the end of the year thereafter, an Annual Environmental Report (AER).

2.8.2 The AER shall include as a minimum the information specified in *Schedule C: Content of Annual Environmental Report* and shall be prepared in accordance with any relevant written guidance issued by the Agency.

2.9 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a suitably qualified and experienced deputy, shall be present at all times during the operation of the facility.

2.10 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and/or experience, as required and shall be aware of the requirements of this licence.

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

CONDITION 3 NOTIFICATION AND RECORD KEEPING

3.1 The licensee shall make written records of the following incidents:

- a) any emission which results in the contravention of any relevant standard, including any standard for an environmental medium, or any relevant emission limit value, prescribed under any relevant enactment;
- b) any emission which does not comply with the requirements of this licence;
- c) any trigger level specified in the EMS which is attained or exceeded;
- d) any malfunction of any environmental control system;
- e) any indication that contamination has, or may have, taken place;
- f) the cessation of waste activities at the facility for a period in excess of 28 days, and their recommencement;
- g) any occurrence with the potential for environmental pollution; and,
- h) any emergency.

3.2 The written record shall include all aspects described in Condition 10.6

3.3 Unless otherwise instructed in writing by the Agency, the licensee shall notify the Agency by telephone and facsimile if available, as soon as practicable and in any case not later than 10.00am the following working day after the occurrence of any incident.

- 3.4 Unless otherwise instructed in writing by the Agency, the licensee shall submit the written record to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident.
- 3.5 Should any further actions be taken after the date of notification, as a result of an incident occurring, the licensee shall forward a written report of those actions to the Agency as soon as practicable and no later than ten days after the initiation of those actions.
- 3.6 In the event of any incident which relates to discharges to surface water, or which affects the interests of the local authority, the licensee shall notify the Southern Regional Fishery Board and/or Laois County Council as soon as practicable by telephone and in writing (by facsimile if available) and in any case not later than 10:00am on the following working day after such an incident.
- 3.7 Copies of all reports, monitoring and analysis results and interpretations required by this licence, shall be forwarded to the Agency's Headquarters or to such other alternative location as agreed with the Agency at the reporting frequencies set out in this licence. The format of all reports and method of reporting shall be in accordance with any written instructions or guidance of the Agency. All monitoring results must be accompanied by a written interpretation of those results setting out their significance. Each report and drawing, including each modification, shall be identified with a unique code. An original and three copies of all reports and results shall be provided to the Agency.
- 3.8 All written reports submitted to the Agency shall be certified accurate and representative by the licensee.
- 3.9 Unless otherwise agreed with the Agency, all written records, reports and other documents required to be maintained under this licence, shall be retained by the licensee.
- 3.10 Unless otherwise agreed in advance with the Agency, the licensee must give at least fourteen days notice to the Agency of the following events:
 - a) the cessation of waste disposal activities at the facility for a period in excess of twenty-eight days;
 - b) the re-commencement of waste disposal activities at the facility following a period of cessation referred to at a) above.
- 3.11 The licensee shall provide copies of any written records, reports and other documents referred to in this licence to the Agency upon written request, within the time specified in writing by the Agency.
- 3.12 The licensee shall keep the following documents at the offices of Tegral Building Products Ltd, William Street, Athy, County Kildare.
 - a) the current waste licence relating to the facility;
 - b) any previous waste licence in respect of the facility;
 - c) the current EMS for the facility;
 - d) the previous year's AER for the facility;
 - e) all written procedures produced by the licensee which relate to the licensed activities.
- 3.13 The licensee shall maintain a written record for each load of waste arriving at the facility. The licensee shall record the following:
 - a) the name of the carrier;

- b) the vehicle registration number;
 - c) a description of the waste;
 - d) the quantity of the waste,
 - e) the name of the person checking the load; and,
 - f) 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.
- 3.14 The licensee shall maintain a written record of all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the following:
- a) date and time of the complaint;
 - b) the name of the complainant;
 - c) details of the nature of the complaint;
 - d) actions taken on foot of the complaint and the results of such actions; and,
 - e) the response made to each complainant.

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

CONDITION 4 SITE INFRASTRUCTURE

- 4.1 The licensee shall establish all infrastructure referred to in this licence prior to the commencement of the licensed activities or as agreed in advance in writing with the Agency.
- 4.2 Site Notice Board
- 4.2.1 The licensee shall provide and maintain a notice board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the identification board shall be 1200 mm by 750 mm.
- 4.2.2 The board shall clearly show:
- a) the name and telephone number of the facility;
 - b) the name, address and telephone number of the licence holder;
 - c) an emergency out of hours contact telephone number;
 - d) the name, address and telephone number of the operator of the facility;
 - e) the licence reference number.
- 4.3 Site Security
- 4.3.1 Security and stockproof fencing and gates shall be maintained as described in Attachment D.1 "Site Security Arrangements". The security fence and gates shall be maintained at the locations shown on Drawing No. 20 "General Site Layout & Site Infrastructure" labelled Site Layout Plan (Mar. 1998), Tegral Drawing No. 201/554. The gate and fencing shall be maintained as specified in Drawing No. 24 "Outer Entrance Gate Detail - Tegral Drawing No. 203/577", Drawing No. 25 "Inner Entrance Gate Details -Tegral Drawing No. 203/578" and Drawing No. 26 "Details of Boundary Fencing - Tegral Drawing No. 203/579".
- 4.3.2 The licensee shall remedy any defect in the gates and/or fencing as follows:

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

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

4.4 Site Roads

4.4.1 The access road shall be maintained at the location shown on Drawing No. 20 "General Site Layout & Site Infrastructure".

4.5 No disposal shall take place during the hours of darkness.

4.6 No fuel shall be stored at the facility.

4.7 Specified Engineering Works

4.7.1 The licensee shall submit written proposals for all Specified Engineering Works, as defined in *Schedule E: Specified Engineering Works*, to the Agency for its agreement prior to any such works being carried out. No such works shall be carried out without the prior agreement of the Agency.

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

4.7.3 Following the completion of all specified engineering works, the licensee shall submit a construction quality assurance validation report to the Agency. The validation report shall include the following information

- a) a description of the works;
- b) as-built drawings of the works;
- c) records and results of all tests carried out (including failures);
- d) where relevant a drawing and sections showing the location of all samples and tests carried out;
- e) daily records sheets/diary;
- f) name(s) of contractor(s)/individual(s) responsible for undertaking the engineering works;
- g) name(s) of individual(s) responsible for supervision of works and for quality assurance validation of works;
- h) records of any problems and the remedial works carried out; and
- i) any other information requested in writing by the Agency.

4.8 Capping

4.8.1 Within six months of the date of grant of this licence, a detailed proposal to provide a temporary capping layer on unused but previously filled sections of the facility shall be submitted to the Agency for its agreement.

Reason: To provide for the protection of the environment

CONDITION 5 WASTE ACCEPTANCE AND HANDLING

- 5.1 No hazardous waste, liquid wastes, commercial, household or biodegradable waste shall be disposed of in the landfill.
- 5.2 Subject to Condition 5.1 only those Waste Types and quantities listed in Table E.1.1 and Attachment E.1 of the application shall be disposed of in the landfill unless the prior written agreement of the Agency has been obtained. The facility shall only accept inert and non-biodegradable waste arising solely from within the premises of Tegral Building Products Ltd, Athy, County Kildare which are from the following two European Waste Catalogue categories : (1) Waste from other cement-based composite materials (EWC Code 101303) and (2) Asbestos based construction materials (EWC Code 170105).
- 5.3 Waste Acceptance Procedures shall be carried out in accordance with “Attachment E.1 Waste Types and Quantities, Attachment E.2 Waste Acceptance Procedures, Attachment E.3 Waste Handling” of the application.
- 5.4 Wastes shall be checked at the working face to ensure that they comply with the requirements of the licence. A record of all inspections shall be maintained. Any wastes deemed to be in contravention of this licence and/or unsuitable for disposal at this facility shall be removed the same day for disposal at an appropriate alternative facility.
- 5.5 The quantity of wastes to be accepted for disposal at the landfill, shall not exceed 650 tonnes per annum and shall be as specified in Attachment E.1 of the application, unless otherwise agreed in advance with the Agency. A maximum of 300 tonnes per annum of asbestos based construction materials shall be deposited at the landfill unless otherwise agreed in advance with the Agency.
- 5.6 Within six months of the date of grant of this licence the licensee shall carry out a leachability test on a representative sample of waste from the manufacture of “*other cement-based composite materials*” (EWC 101303), to ensure that such waste complies with the Conditions of this licence.
- 5.7 Wastes shall not be deposited in any cell or part of the landfill without the prior agreement of the Agency.
- 5.8 Scavenging shall not be permitted at the facility.
- 5.9 Waste shall only be accepted at the facility between the hours of 9.00 to 17.30 Monday to Friday inclusive unless otherwise agreed in writing in advance with the Agency.
- 5.10 Unless the prior agreement of the Agency is given, the following shall apply at the landfill:
 - a) only one working face shall exist at the landfill at any one time for the deposit of waste other than cover or restoration materials;
 - b) disposal of asbestos based construction materials shall be into prepared bays or trenches. Deposited wastes shall be covered immediately with at least 250mm of suitable material. At the end of the day, the waste shall be covered with a minimum of 500mm of suitable cover material.
- 5.11 The working face of the operational cell shall, at the end of the working day, be covered with material suitable in the manner set out in Attachment E. At the end of each working day all waste shall be covered by a minimum of 500mm of cover material

as set out in Attachment E.1. Any cover material at any location within the facility which is eroded, washed off or otherwise removed shall be replaced at the end of the working day.

- 5.12 Wastes once deposited and covered shall not be excavated, disturbed or otherwise picked over without prior written agreement from the Agency.
- 5.13 The licensee shall ensure that all previously deposited waste is covered by a temporary cover of at least 500mm. Representative samples of cover material shall be taken from locations across the site and analysed for asbestos fibres. A proposal for such monitoring shall be submitted to the Agency for agreement within three months of the date of the grant of the licence.
- 5.14 No smoking shall be allowed on the facility.

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

CONDITION 6 ENVIRONMENTAL NUISANCES

- 6.1 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.
- 6.2 All loose litter accumulated within the facility and its environs shall be removed and appropriately disposed of on a daily basis.
- 6.3 Any waste placed on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed by the licensee immediately and in any event by 10:00am of the next working day, after such waste is discovered. Such waste shall be disposed of at an appropriate facility.
- 6.4 The licensee shall ensure that all waste being delivered to the facility is appropriately covered. All waste asbestos based construction materials must be double wrapped in heavy gauge plastic which is clearly labelled to indicate the presence of asbestos.
- 6.5 In dry weather, wastes being deposited, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 6.6 The licensee shall ensure that the activities shall be carried out in a manner such that odours do not result in significant impairment of, or significant interference with amenities or the environment beyond the facility boundary. The licensee shall ensure that birds and vermin do not give rise to nuisance at the facility or the immediate area of the facility.

Reason: To provide for the control of nuisances

CONDITION 7 EMISSIONS AND ENVIRONMENTAL IMPACTS

- 7.1 No specified emission from the facility shall exceed the emission limit values set out in Schedule G: Emissions of this licence. There shall be no other emissions of environmental significance.
- 7.2 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer. Written records of the calibrations and maintenance shall be made and kept by the licensee.
- 7.3 The licensee shall ensure that the activities shall be carried out in a manner such that emissions do not result in significant impairment of, or significant interference with the environment beyond the facility boundary.
- 7.4 There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the facility boundary.
- 7.5 There shall be no direct emissions to groundwater.

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

CONDITION 8 RESTORATION AND AFTERCARE

- 8.1 The final profile of the facility shall be as shown in the following Drawings - Drawing No. 17 "3-D Overlay of Current and Proposed Finish Terrain of Ballylinan Waste Disposal Site", Drawing No. 21 "Longitudinal and Cross Sections Thro' Disposal Area, Mar 1998, Tegral Drawing No. 201-555" and Drawing No. 22 "Cross Sections Thro' Disposal Area, Mar 1998, Tegral Drawing No. 201-556".
- 8.2 As a minimum the Restoration and Aftercare Plans for the facility shall be as stated in Attachments G.1 and G.2 of the application. One year prior to the commencement of the restoration works the licensee shall submit to the Agency for agreement a detail proposal for the final capping and restoration of the facility.
- 8.3 Completed areas of the landfill shall be profiled so that no depressions exist in which water may accumulate.
- 8.4 No material or object that is incompatible with the proposed restoration of the site shall be present within one metre of the final soil surface levels. No asbestos waste shall be present within 2.5 metres of the final surface levels.
- 8.5 In areas where tree planting is proposed to be carried out above waste filled areas a synthetic barrier shall be used to augment the clay cap and topsoil and subsoil depths shall be a minimum of 1m unless otherwise agreed in advance in writing with the Agency.

Reason: To provide for the restoration and aftercare of the facility.

CONDITION 9 ENVIRONMENTAL MONITORING

- 9.1 The licensee shall carry out such monitoring and at such frequencies as set out in *Schedule F: Monitoring* and as specified in the Conditions of this licence.
- 9.2 Monitoring locations shall be those as set out in Schedule F of the licence and Attachment J of the application.
- 9.3 The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and off-site points as required by the Agency.
- 9.4 Ionic balances shall be carried out on groundwater monitoring results.
- 9.5 Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers instructions (if any) so that all monitoring results accurately reflect any emission or discharge or environmental parameter.
- 9.6 The licensee shall amend the frequency, locations, methods and scope of monitoring, sampling, analyses and investigations only upon the written instruction of the Agency and shall provide such information concerning such amendments as may be requested in writing by the Agency. Such alterations shall be carried out within any timescale nominated by the Agency.
- 9.7 Unless otherwise agreed in writing with the Agency, a written record shall be kept of the names, qualifications and a summary of relevant experience of all persons who carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.
- 9.8 The licensee shall maintain all sampling and monitoring points so that they may be used for the representative sampling and monitoring of emissions from the facility.
- 9.9 A topographical survey including the void space shall be carried out within three months of the date of grant of this licence. It shall be repeated annually thereafter. The survey shall be in accordance with any written instructions issued by the Agency.
- 9.10 The licensee shall within two months of the grant of this licence submit a proposal for an investigation into the cause, nature and extent of the groundwater contamination in the vicinity of the site, in so far as it relates to the site, to the Agency for its agreement.

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

CONDITION 10 CONTINGENCY ARRANGEMENTS

- 10.1 Contingency Arrangements for the facility shall be as detailed in *Attachment K.1 "Contingency Arrangements"* of the application.
- 10.2 The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used the absorbent material shall be disposed of at an appropriate facility.
- 10.3 All significant spillages occurring at the facility shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.

- 10.4 No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency. Immediate action shall be taken to extinguish it and the appropriate authorities notified.
- 10.5 In the event that monitoring of local wells indicate that the facility is affecting the quantity and/or quality of the water supply this shall be treated as an incident. The licensee shall submit to the Agency for its agreement and within a time specified in writing by the Agency, written proposals for the provision of an alternative supply of water to those affected.
- 10.6 In the event that any monitoring, sampling or observations indicate that an incident has, or may have, taken place, the licensee shall immediately:
- a) identify the date, time and place of the incident;
 - b) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission;
 - c) isolate the source of the emission;
 - d) evaluate the environmental pollution, if any, caused by the incident;
 - e) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
 - f) identify and put in place measures to avoid reoccurrence of the incident, and;
 - g) identify and put in place any other appropriate remedial action.

Reason: To provide for the protection of the environment.

CONDITION 11 CHARGES AND FINANCIAL PROVISIONS

11.1 Agency Charges

- 11.1.1 The licensee shall pay to the Agency an annual contribution of £ 5,675 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2000 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Consumer Price Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 1999, the licensee shall pay a pro rata amount from the date of this licence to 31st December 1999. This amount shall be paid to the Agency within one month of the date of grant of this licence.
- 11.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased due to an incident occurring on or adjacent to the facility and associated with the facility, the licensee shall contribute such sums as determined by the Agency to defraying its costs.

11.2 Environmental Liabilities

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

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

SCHEDULE A Waste Activities

Activities authorised by the licence shall be restricted to those described below.

Waste Management Act, 1996: Third Schedule ^{Note 1}	
Class 1.	Deposit on, in or under land (including landfill): This activity is limited to the disposal of the inert, non-biodegradable and asbestos based construction waste types specified in Condition 5.2.
Class 4	Surface impoundment, including the placement of liquid or sludge discards into pits, ponds or lagoons. This activity is limited to the disposal of the waste types specified in Condition 5.2.

Note 1: Any reference to an activity Class is to be taken as being from the Third Schedule of the Waste Management Act, 1996, unless otherwise stated.

SCHEDULE B Content of the Environmental Management Programme

Environmental Management Programme
Items specified to be contained in an Environmental Management Plan in the Landfill Operational Practices Manual published by the Agency, or otherwise as agreed in writing with the Agency
Timescale for achieving the objectives and targets listed in the Schedule of Objectives and Targets
Designation of Responsibility for Achieving Targets and Objectives
Other items as specified in writing by the Agency

SCHEDULE C Content of the Annual Environmental Report

Annual Environmental Report Content ^{NOTE 1}

Reporting Period.

Waste activities carried out at the facility.

Quantity and Composition of waste received, disposed of and recovered during the reporting period and each previous year.

Calculated remaining capacity of the site and year in which final capacity is expected to be reached.

Area occupied by waste.

Methods of deposition of waste.

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

Summary of results and interpretations of environmental monitoring, including plans of all monitoring locations including 12 digit grid references.

Resource and energy consumption summary.

Proposed development of the site and timescale of such development.

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

Report on restoration of completed cells/ phases.

Site survey showing existing levels of the facility at the end of the reporting period.

Estimated annual and cumulative quantity of indirect emissions to groundwater.

Meteorological Report.

Schedule of Environmental Objectives and Targets for the forthcoming year.

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

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

Reported incidents and Complaints summaries.

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

NOTE 1 Content to be revised subject to the written agreement of the Agency after cessation of waste acceptance at the facility.

SCHEDULE D Recording and Reporting to the Agency

Table D.1 Recurring Reports

Report	Reporting Frequency ^{Note1}	Report Submission Date
Environmental Management System Updates	Annually	One month after the end of the year reported on.
Annual Environment Report (AER)	Annually	Eighteen months from the date of grant of licence and one month after the end of each year thereafter.
Record of incidents	As they occur	Within three days of the incident.
Specified Engineering Works reports	As they arise	Prior to the works commencing.
Asbestos Fibre Monitoring	Every four months	Ten days after the period being reported on.
Dust Monitoring	Annually	One month after end of the year being reported on.
Monitoring of Groundwater Quality	Quarterly	Ten days after end of the quarter being reported on.
Meteorological Monitoring	Annually	One month after end of the year being reported on.

Note 1: Unless altered at the request of the Agency

Table D.2 Once-off Reports

Report and Contents	Report Submission Date
Environmental Management System	Item (i) within eighteen months and the remainder, except (iv) and (v), within twelve months of the date of grant of the licence.
(i)EMS Proposals (ii)Schedule of Objectives and Targets (iii)Environmental Management Programme (iv)Management Structure (v)Communication Programme (vi)Annual Environmental Report	Within nine months of the date of grant of the licence Within six month of the date of grant of the licence
Infrastructure	
(i) Contingency proposals for alternative supply of water to residents if necessary (ii) Temporary capping for unused areas (iii) Final Capping and Restoration	If required Within six months of the date of grant of the licence One year prior to the commencement of works
Waste Acceptance Procedures	.
(ii) Waste Leachability Study	Within six months of the date of grant of the licence and subsequently as requested by the Agency
Environmental Monitoring	
(i) Groundwater investigation (ii) Cover material asbestos fibre monitoring.	Within two months of the date of grant of the licence. Proposal for monitoring within 3 months of the date of grant of the licence.

SCHEDULE E Specified Engineering Works

Specified Engineering Works

Development of Phases and future Cells of the facility including preparatory work.

Landfill cap installation, including temporary and intermediate capping, installation and all other containment works (including any containment works relating to leachate control).

Fencing and site security works.

Installation of alternative drinking water supplies.

Installation of groundwater control and/or monitoring systems.

Restoration and Aftercare Works.

Any other works notified in writing by the Agency.

SCHEDULE F Monitoring

Monitoring to be carried out at the locations specified in Condition 9.2.

F.1 Asbestos Fibre Monitoring

Table F.1.1 Asbestos Fibre Monitoring

Monitoring Locations : (1) Point of tipping, (2) 10m downwind of tipping and (3) Perimeter Fence Sample (upwind and downwind). As per Attachment J.1 and Drawing No. 20 "Dust Sampling Locations".

Parameter (fibres/ml)	Monitoring Frequency	Analysis Method/Technique
Asbestos Fibre Concentration	Every Four Months ^{Note 1}	Standard Method ^{Note 2}

Note 1: The licensee shall continue the asbestos fibre monitoring programme set out in Attachments C.1 and J.1 of the application. Where applicable samples to be taken during the disposal of asbestos based construction materials, or otherwise specified in writing by the Agency.

Note 2: Method used shall be "Asbestos Fibre in Air" Health and Safety Executive MDHS 39/4, UK (1995) or another method agreed with the Agency. Monitoring shall be carried out by an independent laboratory agreed with the Agency.

F.2 Dust

F.2.1 Dust Monitoring

Monitoring Location : D.1 at the Northern Perimeter as shown on Drawing No. 27 "Dust Sampling Locations".

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

Note 1: Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute)

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

F.3 Groundwater

Table F.3.1 Groundwater - Monitoring Locations / Parameters / Frequency

Monitoring Locations : MW1, MW2, MW3, MW4, MW5, MW6, MW7 as shown on drawing "Landfill Site Groundwater Sampling" dated 7.1.99.

Parameter ^(Note 1)	GROUNDWATER Quarterly Monitoring	GROUNDWATER Annual Monitoring
pH	•	
Temperature	•	
Electrical Conductivity EC	•	
Ammoniacal Nitrogen NH ⁴ -N	•	
Nitrate	•	
Nitrite	•	
Chloride Cl	•	
Potassium K	•	
Sodium Na	•	
Total organic Carbon TOC	•	
Total oxidised nitrogen TON	•	
Odour / Visual Inspection	•	
Phenol	•	
Barium	•	
Iron Fe	•	
Manganese Mn	•	
Calcium Ca	•	
Sulphate SO ₄	•	
Boron B		•
Cadmium Cd		•
Chromium Total Cr		•
Copper Cu		•
Cyanide Cn, Total		•
Fluoride F		•
Lead Pb		•
List I/II Organic Substances (Note 2)		•
Magnesium Mg		•
Mercury Hg		•
Residue on evaporation (180°C)		•
Total Alkalinity (as CaCO ₃)		•
Total Phosphorus or orthophosphate		•
Zinc Zn		•
Faecal Coliforms ^(Note 3)	• Note 3	•
Total Coliforms ^(Note 3)	• Note 3	•

Note 1. All the analysis shall be carried out by a competent laboratory using standard and internationally accepted

procedures. The testing laboratory and the testing procedures shall be agreed in writing with the Agency in advance.

Note 2. Representative samples of groundwater screened for the presence of organic compounds using Gas Chromatography/ Mass Spectrometry (GC/MS) or other appropriate techniques and using the List I/II Substances From EU Directive 76/464/EEC and 80/68/EEC as a guideline. Recommended analytical methods include : volatiles (US EPA method 524 or equivalent), semi-volatiles (US EPA method 525 or equivalent, and pesticides (US EPA method 608 or equivalent).

Note 3. The first quarterly set of monitoring should include bacteriological monitoring after which sampling reverts back to annually. If there is evidence of bacterial contamination, the analysis at up gradient and downgradient monitoring points should include enumeration of total bacteria at 22°C, 37°C and faecal streptococci. The frequency should be increased to quarterly monitoring in cases where nearby wells may be of local importance for drinking water.

F.4 Meteorological Monitoring

Table F.4.1 Meteorological Monitoring:
At a location to be agreed with the Agency.

Parameter	Monitoring Frequency	Analysis Method/Technique
Precipitation Volume	Daily	Standard
Wind Force and Direction	Daily	Standard

SCHEDULE G Emission Limits

G.1 Dust Deposition:

Level (mg/m ² /day) ^{Note 1, 2}
240

Note 1: 30 day composite sample with the results expressed as mg/m² /day.
Note 2: Excludes asbestos fibres.

Given by the Agency on the 31st day of March 1999.

Signed on behalf of the said Agency _____
on the 31st day of March 1999 P Nolan **Authorised Person**