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WASTE LICENCE
PROPOSED DECISION

Waste Licence
Register Number: 115-1
Applicant: Soltec (Ireland) Limited
Location of Facility: Mullingar Business Park,
Mullingar, Co. Westmeath

INTRODUCTION

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

This licence is for the recovery of waste solvents at the facility of Soltec (Ireland) Limited. The company will be permitted to accept at the facility up to 5,000 tonnes of waste solvent per annum for processing and recovery. The waste activities permitted to be carried out at the facility include:

- the distillation of waste solvent; and
- the storage of waste solvent, recovered solvent and distillation residues.

The company has to carry out regular environmental monitoring and submit all monitoring results and a number of reports on the operation and management of the facility to the Agency.

The conditions of this licence set out in detail the legal constraints under which Soltec (Ireland) Limited is allowed to operate and manage this facility.

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DECISION & REASONS FOR THE DECISION

The Environmental Protection Agency (the Agency) is satisfied, on the basis of the information available, that the waste activity, or activities, licensed hereunder will comply with the requirements of Section 40(4) of the Waste Management Act, 1996.

In reaching this decision the Agency has considered the application and supporting documentation received from the applicant and the report of its inspector.

Part I Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Environmental Protection Agency proposes, under Section 40(1) of the said Act to grant this Waste Licence to Soltec (Ireland) Limited, Mullingar Business Park, Mullingar, Co. Westmeath to carry on the waste activities listed below at Mullingar Business Park, Mullingar, Co. Westmeath subject to twelve conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act 1996

Class 1.	Solvent reclamation or regeneration: This activity is limited to the distillation of waste solvents.
Class 13.	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced: This activity is limited to the storage, pending recovery, of waste solvents and other wastes arising from the waste solvent distillation process.

INTERPRETATION

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

Adequate lighting	20 lux measured at ground level.
Aerosol	A suspension of solid or liquid particles in a gaseous medium.
Agreement	Agreement in writing.
Annually	At approximately twelve monthly intervals.
Application	The application by the licensee for this waste licence.
Appropriate facility	A waste management facility, duly authorised under relevant law and technically suitable.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
Condition	A condition of this licence.
Containment boom	A boom which can contain spillages and prevent them from entering drains or watercourses.
Daytime	8.00 a.m. to 10.00 p.m.
Documentation	Any report, record, result, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
Drawing	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
Emergency	Those occurrences defined in Condition 9.4
Emission Limits	Those limits, including concentration limits and deposition levels established in Schedule D.
EPA Working Day	Refers to the following hours; 9.00 a.m. to 5.30 p.m. Monday to Friday inclusive.
European Waste Catalogue (EWC)	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.
Hours of Operation	The hours during which the facility is authorised to be operational. The hours of operation of a facility are usually longer than the hours of waste acceptance to facilitate the processing of waste.
Hours of Waste Acceptance	The hours during which the facility is authorised to accept waste.

LEL (Lower Explosive Limit)	The lowest percentage concentration by volume of a mixture of flammable gas with air which will propagate a flame at 25°C and atmospheric pressure.
Licence	A Waste Licence issued in accordance with the Act.
Licensee	Soltec (Ireland) Limited
Liquid Waste	Any waste in liquid form and containing less than 2% dry matter. Any waste tankered to the facility.
List I/II Organics	Substances classified pursuant to EC Directives 76/464/EEC and 80/68/EEC.
Maintain	Keep in a fit state, including such regular inspection, servicing and repair as may be necessary to adequately perform its function.
Mobile Plant	Self-propelled machinery used for the emplacement of wastes or for the construction of specified engineering works.
Monthly	A minimum of 12 times per year, at approximately monthly intervals.
Night-time	10.00 p.m. to 8.00 a.m.
Quarterly	At approximately three monthly intervals.
Sample(s)	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
Specified Emissions	Those emissions listed in Schedule D: Emission Limits of this licence.
Specified Engineering Works	Those engineering works listed in Schedule C: Specified Engineering Works of this licence.
Trigger Level	A parameter value specified in the licence, the achievement or exceedance of which requires certain actions to be taken by the licensee.

PART II CONDITIONS

CONDITION 1 SCOPE OF THE LICENCE

- 1.1. Waste activities at the facility shall be restricted to those listed and described in *Part I: Activities Licensed* and authorised by this licence.
- 1.2. For the purposes of this licence, the facility is the area of land outlined in red on Drawing No. 'Map B.2.3' of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3. 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.
- 1.4. Only those waste types and quantities listed in *Schedule A: Waste Acceptance* shall be recovered at the facility.
- 1.5. Waste Acceptance Hours and Hours of Operation
 - 1.5.1. Waste may only be accepted at the facility between the hours of 08:00 and 18:00, Monday to Saturday inclusive.
- 1.6. The following shall constitute an incident for the purposes of this licence:
 - a) an emergency;
 - b) any emission which does not comply with the requirements of this licence;
 - c) any trigger level specified in this licence which is attained or exceeded; and
 - d) any indication that environmental pollution has, or may have, taken place.
- 1.7. Where the Agency considers that a non-compliance with any condition of this licence has occurred, it may serve a notice on the licensee specifying:
 - 1.7.1 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;
 - 1.7.2 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
 - 1.7.3 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 permission is received from the Agency.
- 1.8. Every plan, programme or proposal submitted to the Agency for its agreement pursuant to any Condition of this licence shall include a proposed timescale for its implementation. The Agency may modify or alter any such plan, programme or proposal in so far as it considers such modification or alteration to be necessary and shall notify the licensee in writing of any such modification or alteration. Every such plan, programme or proposal shall be carried out within the timescale fixed by the Agency but shall not be undertaken without the agreement of the

Agency. Every such plan, programme or proposal agreed by the Agency shall be covered by the conditions of this licence.

REASON: To clarify the scope of this licence.

CONDITION 2 MANAGEMENT OF THE FACILITY

2.1 Facility Management

- 2.1.1 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a nominated, suitably qualified and experienced, deputy shall be present on the facility at all times during its operation.
- 2.1.2 Both the facility manager and deputy, and any replacement manager or deputy, shall successfully complete both the FÁS waste management training programme (or equivalent agreed with the Agency) and associated on site assessment appraisal within twelve months of appointment.
- 2.1.3 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 Management Structure

- 2.2.1 Within three months from the date of grant of this licence, the licensee shall submit written details of the management structure of the facility to the Agency. Any proposed replacement in the management structure shall be notified in advance in writing to the Agency. 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, in particular the name of the facility manager and any nominated deputies;
 - b) details of the responsibilities for each individual named under a) above; and
 - c) details of the relevant education, training and experience held by each of the persons nominated under a) above.

2.3 Environmental Management System (EMS)

- 2.3.1 The licensee shall establish and maintain an EMS. Within eighteen months from the date of grant of this licence, the licensee shall 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 its agreement.
- 2.3.2 The EMS shall include as a minimum the following elements:

2.3.2.1 Schedule of Environmental Objectives and Targets

The objectives should be specific and the targets measurable. The Schedule shall address a five-year period as a minimum. The Schedule

shall include a time-scale for achieving the objectives and targets and shall comply with any other written guidance issued by the Agency.

2.3.2.2 Environmental Management Plan (EMP)

The EMP shall include, as a minimum, the following:

- (i) the items specified in *Schedule B: Content of the Environmental Management Plan*;
- (ii) methods by which the objectives and targets will be achieved and the identification of those responsible for achieving those objectives and targets;
- (iii) any other items required by written guidance issued by the Agency.

2.3.2.3 Corrective Action Procedures

The Corrective Action Procedures shall detail the corrective actions to be taken should any of the procedures detailed in the EMS not be followed.

2.3.2.4 Awareness and Training Programme

The Awareness and Training Programme shall identify training needs, for personnel who work in or have responsibility for the licensed facility.

2.4 Communications Programme

- 2.4.1 The licensee shall establish and maintain a Communications Programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility. This shall be established within six months of granting of the licence.

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

CONDITION 3 FACILITY INFRASTRUCTURE

- 3.1 The licensee shall establish all infrastructure referred to in this licence prior to the commencement of the licensed activities or as required by the conditions of this licence.

3.2 Specified Engineering Works

- 3.2.1 The licensee shall submit proposals for all Specified Engineering Works, as defined in *Schedule C: Specified Engineering Works*, to the Agency for its agreement at least two months prior to the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.
- 3.2.2 All specified engineering works shall be supervised by a competent person(s) and that person, or persons, shall be present at all times during which relevant works are being undertaken.

- 3.2.3 Following the completion of all specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall 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) drawings and sections showing the location of all samples and tests carried out;
 - e) daily record sheets/diary;
 - f) name(s) of contractor(s)/individual(s) responsible for undertaking the specified 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 to resolve those problems; and
 - i) any other information requested in writing by the Agency.

3.3 Facility Notice Board

3.3.1 Within three months of the date of grant of this licence, the licensee shall provide and maintain a Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm.

3.3.2 The board shall clearly show:

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

3.4 Facility Security

3.4.1 Security fencing and gates shall be maintained as described in Attachment D.1a of the application.

3.4.2 Within six months of the date of grant of this licence, the boundary to the rear of the facility shall be secured by a security wall or fence of at least an equal standard as exists on the boundaries to the front and sides of the facility.

3.4.3 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.

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

3.5 Facility Office

- 3.5.1 The licensee shall provide and maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 3.5.2 The licensee shall provide and maintain a working telephone and a method for electronic transfer of information at the facility.
- 3.6 Waste Storage and Quarantine Areas
- 3.6.1 Within six months of the date of grant of this licence, Waste Storage Areas and a Waste Quarantine Area shall be provided and maintained at the facility. These areas shall be constructed and maintained in a manner suitable, and be of a size appropriate, for the storage and quarantine of waste. The Waste Storage Areas and Waste Quarantine Area shall be clearly identified and segregated from each other.
- 3.6.2 Within six months of the date of grant of this licence, the licensee shall submit a drawing to the Agency illustrating the designated Waste Storage Areas and Waste Quarantine Area. The drawing shall also illustrate storage areas for drummed recovered solvent.
- 3.6.3 Appropriate infrastructure shall be provided and maintained for the storage of incompatible substances. The infrastructure shall be provided and maintained such that no mixing of incompatible substances, as a result of spillages or otherwise, shall take place.
- 3.7 Tank and Drum Storage Areas
- 3.7.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.
- 3.7.2 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:
- (a) 110% of the capacity of the largest tank or drum within the bunded area; or
 - (b) 25% of the total volume of substance which could be stored within the bunded area.
- 3.7.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.7.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.7.5 The integrity and water tightness of all the bunds and their resistance to penetration by water or other materials stored therein shall be confirmed by the licensee and shall be reported to the Agency within twelve months of the date of grant of this licence. This confirmation shall be repeated at least once every three years thereafter and reported to the Agency on each occasion.
- 3.7.6 Within six months of the date of grant of this licence, a kerb or other suitable barrier shall be constructed at the boundary to the rear of the facility. The kerb or barrier shall be designed and constructed to prevent the flow of any liquid beyond the bounds of the facility.
- 3.7.7 Within six months of the date of grant of this licence, the solvent tanker discharge pipe shall be covered or otherwise enclosed to ensure the collection of any solvent spilled as a result of rupture or other damage to the pipe.

REASON: To provide appropriate infrastructure for the protection of the environment.

CONDITION 4 DECOMMISSIONING AND AFTERCARE

- 4.1. A Decommissioning and Aftercare Plan for the facility shall be as submitted to the Agency as Attachment G of the application. The licensee shall update this plan when required in writing by the Agency and submit proposed amendments to the Agency for its agreement.

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

CONDITION 5 FACILITY OPERATIONS

- 5.1 No waste shall be accepted at the facility except where:
- (a) information on the characteristics of the waste in terms of its nature, constituents and contaminants has been pre-notified to the licensee at least three days prior to the arrival of waste at the facility;
 - (b) the specific gravity/density, boiling point, distillation range and moisture content of individual shipments have been verified by the licensee by sampling and analysis of the waste upon its arrival at the facility; and
 - (c) a designated and suitable Waste Storage Area is available at the facility.
- 5.2 Only waste solvents which have a boiling point at ambient pressure in the range 30°C to 120°C may be recovered in distillation plant UB5 (as illustrated in Map D2.1). Only waste solvents which have a boiling point at ambient pressure in the range 30°C to 110°C may be recovered in distillation plant UA5 (as illustrated in Map D2.1).
- 5.3 Storage of waste
- 5.3.1 Waste accepted at the facility shall only be stored in the Waste Storage Areas.
 - 5.3.2 Any waste which is deemed (i) unsuitable for such treatment or processing as set out in Condition 5.7.1 and/or (ii) to contravene any condition of this licence shall be immediately separated, stored in the Waste Quarantine Area and, at the earliest possible time removed from the facility to an appropriate facility.
 - 5.3.3 No waste shall be stored at the facility for longer than six months.
- 5.4 Labelling of containers, drums and tanks
- 5.4.1 No container (including drums and tanks) shall be accepted at the facility whose contents are unknown and whose contents are not clearly displayed on a label.
 - 5.4.2 All containers, including waste and fuel storage drums and tanks, shall be labelled to clearly indicate their contents. During storage, each container shall be accessible to allow for the reading of the label.
 - 5.4.3 All containers of recovered solvent shall be so labelled and shall be stored separately from unprocessed waste solvent.
- 5.5 All containers accepted or handled at the facility shall be whole and sound. Any leaking or otherwise ruptured containers shall immediately be overdrummed or the contents transferred to a sound container in a manner which will not adversely affect the environment.

- 5.6 Waste acceptance, analysis and handling
- 5.6.1 Within six months of the date of grant of this licence, the licensee shall submit to the Agency written procedures for the acceptance, analysis and handling of all wastes. The procedures shall take into account the requirements of the conditions of this licence, and in particular Conditions 1.4, 5.1, 5.2, 5.3 and 5.4. The procedures shall be developed as part of the EMS.
- 5.7 Waste treatment and processing
- 5.7.1 Within six months of the date of grant of this licence, the licensee shall submit to the Agency written procedures for the treatment and processing of waste solvents in distillation plants UA5 and UB5 (as illustrated in Map D2.1). In the interim, waste solvents shall only be processed as detailed in Attachment D.2 of the application.
- 5.7.2 No solvents of a different nature, different constituents or from a different location, process or operation shall be mixed in any storage or distillation vessel except where they are compatible. Written procedures shall be developed and maintained to ensure that incompatible substances are not mixed.
- 5.7.3 Operation of the overhead condenser on distillation plant UB5 (as illustrated in Map D2.1) shall be automatically monitored by the control system such that failure of operation of the condenser shall cause the automatic cessation of heat being applied to the waste solvent inside the distillation vessel.
- 5.8 Off-site Disposal and Recovery
- 5.8.1 Waste sent off-site for recovery or disposal shall only be conveyed by a waste contractor agreed by the Agency;
- 5.8.2 All waste transferred from the facility shall only be transferred to an appropriate facility agreed by the Agency;
- 5.8.3 All wastes removed off-site for recovery or disposal shall be transported from the facility to the consignee in a manner which will not adversely affect the environment.
- 5.9 Maintenance
- 5.9.1 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.
- 5.9.2 The licensee shall maintain and clearly label and name all sampling and monitoring locations.

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

CONDITION 6 EMISSIONS

- 6.1. No specified emission from the facility shall exceed the emission limit values set out in *Schedule D: Emission Limits* of this licence. There shall be no other emissions of environmental significance.

6.2. 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.

6.3. Emissions to atmosphere

6.3.1. Emissions to atmosphere shall only be made at locations A1 and A2 as illustrated on drawing no. 'Map J1' submitted with Attachment J of the application.

6.3.2. Emissions to air at location A2 shall be made at a height of 10.0 metres above ground level or at a height no less than 1.0 metres above roof level, whichever is the higher.

6.3.3. The licensee shall investigate options for the reduction of fugitive emissions to air at the facility. The following periods of operation shall in particular be addressed during the investigation:

(a) during charging of all vessels;

(b) in the case of the distillation plant UB5 (as illustrated in Map D2.1) in 'Site B', upon start-up of the vacuum pump; and

(c) in the case of the distillation plant UA5 (as illustrated in Map D2.1) in 'Site A', upon opening the vessels at the end of a distillation run.

Within nine months of the date of grant of this licence, a report on the investigations shall be submitted to the Agency. The report shall include recommendations for actions to be taken and a timescale for implementation of those recommendations.

6.3.4. Emission limit values to atmosphere in this licence shall be interpreted in the following way:

6.3.4.1 For non-continuous monitoring:

(a) For any parameter where, due to sampling/analytical limitations, a 30 minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.

(b) For flow, no hourly or daily mean value, calculated on the basis of appropriate spot readings, shall exceed the relevant limit value.

(c) Mass flow thresholds refer to a rate of discharge expressed in units of kg/h, above which the concentration emission limit value applies. Mass flow threshold rates shall be determined on the basis of a single 30 minute measurement (i.e. the concentration determined as a 30 minute average shall be multiplied by an appropriate measurement of flow and the result shall be expressed in units of kg/h).

(d) Mass flow limits shall be calculated on the basis of the concentration, determined as an average over the specified period, multiplied by an appropriate measurement of flow. No value, so determined, shall exceed the mass flow limit value.

(e) For all other parameters, no 30 minute mean value shall exceed the emission limit value.

6.3.5. The concentration limits for emission to atmosphere specified in this licence shall be achieved without the introduction of dilution air and shall be based on gas volumes under standard conditions of:

Temperature 273K, Pressure 101.3 kPa (no correction for oxygen or water content).

- 6.4. There shall be no direct emissions to groundwater. No potentially polluting substance or matter shall be permitted to discharge to ground or groundwater.
- 6.5. There shall be no trade effluent emissions to sewer.
- 6.6. No potentially polluting substance or matter shall be permitted to discharge to on-site or off-site surface waters or to storm drains.
- 6.7. Non-trade effluent wastewater (e.g. fire water, accidental spillage) which occurs on site shall not be discharged to the sewer without the prior authorisation of the Sanitary Authority. The Agency shall be notified of such an event.

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

CONDITION 7 NUISANCE CONTROL

- 7.1 The licensee shall ensure that litter and odours do not give rise to nuisance at the facility or in the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.

REASON: To provide for the control of nuisances

CONDITION 8 MONITORING

- 8.1. The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule E: Monitoring* and as specified in this licence. Unless otherwise specified by this licence, all environmental monitoring shall commence no later than two months after the date of grant of this licence.
- 8.2. The licensee shall amend the frequency, locations, methods and scope of monitoring as required by this licence 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.
- 8.3. 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, discharge or environmental parameter.
- 8.4. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 8.5. Nuisance Monitoring
 - 8.5.1. The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by litter and odours.
- 8.6. Noise monitoring

- 8.6.1. The location of the noise monitoring points shall be as per Attachment J.7 of the application.
- 8.7. Emissions to air monitoring
- 8.7.1. Analysis for all parameters specified in Table E.2.2 of *Schedule E.2: Monitoring of emissions to air* shall be carried out within six months of the date of grant of this licence and thereafter in accordance with the frequencies set out in Table E.2.2.
- 8.8. Groundwater monitoring
- 8.8.1. A groundwater monitoring borehole, to be denoted MW4, shall be sunk in the area around distillation plant UA5 (as illustrated in Map D2.1). The location of the borehole shall be agreed with the Agency. Borehole logs and as-built well completion details shall be submitted to the Agency in relation to the borehole.
- 8.8.2. Analysis for all parameters specified in Table E.3.2 of *Schedule E.3: Monitoring of groundwater quality* shall be carried out within six months of the date of grant of this licence and thereafter in accordance with the frequencies set out in Table E.3.2.

REASON: *To ensure compliance with the conditions of this licence by provision of a satisfactory system of monitoring of emissions*

CONDITION 9 CONTINGENCY ARRANGEMENTS

- 9.1. In the event of an incident 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 arising therefrom;
 - (c) isolate the source of any such emission;
 - (d) evaluate the environmental pollution, if any, caused by the incident;
 - (e) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
 - (f) provide a proposal to the Agency for its agreement within one month of the incident occurring to:
 - (i) identify and put in place measures to avoid reoccurrence of the incident; and
 - (ii) identify and put in place any other appropriate remedial action.
- 9.2. The licensee shall, within six months of the date of grant of this licence, submit a written Emergency Response Procedure (ERP) to the Agency for its agreement. The ERP shall address any emergency situations which may originate on the facility and shall include provision for minimising the effects of any emergency on the environment. This shall include a risk assessment to determine the requirements at the facility for fire fighting and fire water retention facilities. This risk assessment shall have regard to published EPA guidance on requirements for fire water retention facilities. The Fire Authority shall be consulted by the licensee during this assessment.

- 9.3. 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.
- 9.4. Emergencies
- 9.4.1. All significant spillages occurring at the facility shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.
- 9.4.2. No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.

REASON: To ensure compliance with the conditions of this licence by provision of a satisfactory system of monitoring of emissions

CONDITION 10 RECORDS

- 10.1 The licensee shall keep the following documents at the facility office.
- the current waste licence relating to the facility;
 - the current EMS for the facility;
 - the previous year's AER for the facility;
 - all written procedures produced by the licensee which relate to the licensed activities.
- 10.2 The licensee shall maintain a written record for each load of waste arriving at the facility. These records shall be kept for a period of not less than three years. The licensee shall record the following:
- the date;
 - the name of the carrier (including if appropriate, the waste carrier registration or collection permit details);
 - the vehicle registration number;
 - the name of the producer(s)/collector(s) of the waste as appropriate;
 - a description of the waste including the associated EWC codes;
 - a pre-notification form number;
 - a consignment note number (including C1, transfrontier shipment notification and movement/tracking form numbers, as appropriate);
 - the quantity of the waste, recorded in litres and tonnes and the number and type of containers;

(In the absence of weighing facilities for incoming waste, the specific gravity of solvents as measured at the facility, or other conversion factor as shall be agreed with the Agency, shall be used for the purpose of calculating the mass of solvent accepted at the facility).
 - the name of the person checking the load; and
 - 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.

10.3 Written Records

The following written records shall be maintained by the licensee:

- a) the types and quantities of waste recovered at the facility each year. These records shall include the relevant EWC Codes;
 - b) all training undertaken by facility staff;
 - c) results from all integrity tests of bunds and other structures and any maintenance or remedial work arising from them;
 - d) details of all nuisance inspections; and
 - e) the names and qualifications 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.
- 10.4 The licensee shall maintain a written record of all complaints relating to the operation of the activity. Each such record shall give details of the following:
- a) date and time of the complaint;
 - b) the name of the complainant;
 - c) details of the nature of the complaint;
 - d) actions taken on foot of the complaint and the results of such actions; and,
 - e) the response made to each complainant.

REASON: To provide for the keeping of proper records of the operation of the facility

CONDITION 11 REPORTS AND NOTIFICATIONS

- 11.1 Unless otherwise agreed by the Agency, all reports and notifications submitted to the Agency shall:
- (a) be sent to the Agency's headquarters;
 - (b) comprise one original and three copies unless additional copies are required;
 - (c) be formatted in accordance with any written instruction or guidance issued by the Agency;
 - (d) include whatever information as is specified in writing by the Agency;
 - (e) be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
 - (f) be submitted in accordance to the relevant reporting frequencies specified by this licence, such as in *Schedule F: Recording and Reporting to the Agency*;
 - (g) be accompanied by a written interpretation setting out their significance in the case of all monitoring data; and
 - (h) be transferred electronically to the Agency's computer system if required by the Agency.
- 11.2 In the event of an incident occurring on the facility, the licensee shall:
- a) notify the Agency as soon as practicable and in any case not later than 10.00 am the following working day after the occurrence of any incident;
 - b) submit a written record of the incident, including all aspects described in Condition 9.1(a-e), to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident; and

- c) in the event of any incident which relates to discharges to surface/sewer water, notify Westmeath County Council as soon as practicable and in any case not later than 10:00am on the following working day after such an incident.
- d) Should any further actions be taken 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.

11.3 Monitoring Locations

- 11.3.1 Within twelve months of the date of grant of this licence, the licensee shall submit to the Agency an appropriately scaled drawing(s) showing all the monitoring locations that are stipulated in this licence. The drawing(s) shall include the reference code of each monitoring point. Twelve digit grid references shall be assigned to each monitoring point.

11.4 Annual Environmental Report

- 11.4.1 The licensee shall submit to the Agency for its agreement, within thirteen months from the date of grant of this licence, and within one month of the end of each year thereafter, an Annual Environmental Report (AER).
- 11.4.2 The AER shall include as a minimum the information specified in *Schedule G: Content of the Annual Environmental Report* and shall be prepared in accordance with any relevant written guidance issued by the Agency.

REASON: *To provide for proper report to and notification of the Agency.*

CONDITION 12 CHARGES AND FINANCIAL PROVISIONS

12.1 Agency Charges

- 12.1.1 The licensee shall pay to the Agency an annual contribution of £5,928 (€7,528) or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2002 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Public Sector Average Earnings Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2001, the licensee shall pay a pro rata amount from the date of this licence to 31st December. This amount shall be paid to the Agency within one month of the date of grant of this licence.
- 12.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased the licensee shall contribute such sums as determined by the Agency to defraying its costs.

12.2 Financial Provision for Closure, Restoration and Aftercare

- 12.2.1 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 its agreement within six months of date of grant of this licence.

- 12.2.2 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 by the Agency.
- 12.2.3 The amount of financial provision, held under condition 12.2.2 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.
- 12.2.4 The licensee shall within two weeks of purchase, renewal or revision of the financial provision required under condition 12.2.2, 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 Acceptance

A.1 Waste Acceptance

Table A.1 Waste Categories and Quantities

WASTE TYPE	MAXIMUM (TONNES PER ANNUM)
Organic solvents	5,000

SCHEDULE B : Content of the Environmental Management Plan

Environmental Management Programme
<p>Details of Operator Name and Address of operator and site. Included should be contact names in respect of persons with managerial responsibility for site operations, including the facility manager. Relevant telephone numbers should also be given. All relevant drawings should be included in the EMP.</p> <p>Types of Waste Accepted A detailed description of the types of waste that can be accepted at the facility.</p> <p>Quantity of Wastes Accepted Details should be given on the annual quantity of waste taken into the facility.</p> <p>Engineering Details Details of all significant site engineering works should be included. Where applicable the information should cover:</p> <ul style="list-style-type: none"> • fencing, gates and other security • site access roads and secondary site roads • offices, fuel stores etc. • site infrastructure etc. • designated Waste Storage Areas, Waste Quarantine Areas and product storage areas. <p>Operational Matters These should include:</p> <ul style="list-style-type: none"> • description of the operations • measures for the control of environmental nuisances • measures for the control of emissions • site opening and operating times • access control • waste acceptance procedures • procedures for dealing with unacceptable wastes • procedure for the handling of leaking or otherwise ruptured containers • procedure for ensuring that no mixing of incompatible substances, as a result of spillages or otherwise, shall take place • equipment to be utilised • site personnel, including qualifications, duties and responsibilities • monitoring and maintenance procedures • trigger levels for emissions • operational and safety rules (including safety statement) • emergency procedures <p>Objectives and Targets Timescale for achieving the objectives and targets listed in the Schedule of Objectives and Targets. Designation of Responsibility for Achieving Targets and Objectives. Investigation of feasibility of phasing out the acceptance of chlorinated solvents, including perchloroethylene and trichloroethylene, at the facility by 31 December 2004. Reduction in fugitive emissions including, in particular, the use of closed loop systems where appropriate.</p> <p>Other items specified by the Agency</p>

SCHEDULE C : Specified Engineering Works

Specified Engineering Works

Development of Waste Storage Areas and Waste Quarantine Areas

Development of waste processing capacity

Installation of waste processing or other equipment

Installation of sumps, bunds or other drainage controls

Installation of emissions control and/or monitoring systems

Any other works notified in writing by the Agency.

SCHEDULE D : Emission Limits

D.1 Emission Limit Values for Emissions to Air

Emission Point reference no: A2

Location: Emission to air from distillation plant UB5 (Map D2.1)

Maximum volume to be emitted: 100 m³/hr

Minimum discharge height: 10 m

Parameter	Emission Limit Value	
TA Luft Organics Class I	From twelve months from the date of grant of this licence	20 mg/m ³ (at mass flows > 0.1 kg/hr)
Volatile organic carbon (as Carbon)	From twelve months from the date of grant of this licence	0.2 kg/hour

SCHEDULE E : Monitoring

Monitoring to be carried out as specified below.

E.1: Monitoring of noise

Noise Monitoring Point Reference Numbers: **N1, N2, N3, N4** and **N5**.

Table E.1.1 Noise monitoring locations

STATION	REF. NUMBER	EASTING	NORTHING
Noise monitoring location 1	N1	To be submitted	
Noise monitoring location 2	N2		
Noise monitoring location 3	N3		
Noise monitoring location 4	N4		
Noise monitoring location 5	N5		

Table E.1.2 Noise monitoring

Parameter	Monitoring frequency	Analysis method or technique
L(A)_{EQ} [30 minutes]	Annually	Standard ^{Note 1}
L(A)₁₀ [30 minutes]	“	“
L(A)₉₀ [30 minutes]	“	“
Frequency analysis (1/3 octave band analysis)	“	“

Note 1: International Standards Organisation. ISO 1996. Acoustics - Description and Measurement of Environmental Noise. Parts 1, 2 and 3.

E.2: Monitoring of emissions to air

Air Monitoring Point Reference Numbers: **A1** and **A2**.

Table E.2.1 Air monitoring locations

STATION	REF. NUMBER	EASTING	NORTHING
UA5 distillation units combined extraction system emission point	A1	243629	252657
UB5 distillation unit air emission point	A2	243597	252665

Table E.2.2 Monitoring of emissions to air at A1 and A2

Parameter	Monitoring frequency	Analysis method or technique ^{note 1}
T.A. Luft Organics Class 1	annually ^{note 2}	To be agreed with the Agency
Volatile organic carbon (as C)	bi-annually ^{note 2}	To be agreed with the Agency
Characterisation of the VOC emission	annually ^{note 2}	To be agreed with the Agency

Note 1: Sampling and analytical techniques must be based on standard methods which have been demonstrated as suitable for the measurement of the target substances.

Note 2: Monitoring must occur during periods of maximum discharge. Production records should be available to demonstrate that gas sampling took place during periods of maximum loading.

E.3: Monitoring of groundwater quality

Groundwater Monitoring Point Reference Numbers: **MW1, MW2, MW3 and MW4.**

Table E.3.1 Groundwater monitoring locations

STATION	REF. NUMBER	EASTING	NORTHING
Groundwater monitoring point 1	MW1	to be submitted	
Groundwater monitoring point 2	MW2		
Groundwater monitoring point 3	MW3		
Groundwater monitoring point 4	MW4		

Table E.3.2 Monitoring of groundwater at MW1, MW2, MW3 and MW4

Parameter	Monitoring frequency	Analysis method or technique ^{note 1}
Volatile organic compounds ^{Note 2}	annually	To be agreed with the Agency
Semi-volatile organic compounds	annually	To be agreed with the Agency

Note 1: Sampling and analytical techniques must be based on standard methods which have been demonstrated as suitable for the measurement of the target substances.

Note 2: Screening for priority pollutant list substances. The analysis shall include those organic solvents accepted as waste or used at the facility.

SCHEDULE F : Recording and Reporting to the Agency

Report	Reporting Frequency ^{Note 1}	Report Submission Date
Environmental Management System Updates	Annually	One month after the end of the year reported on.
Annual Environment Report (AER)	Annually	Thirteen months from the date of grant of licence and one month after the end of each year thereafter.
Record of incidents	As they occur	Within five days of the incident.
Bund, tank and container integrity assessment	Every three years	Six months from the date of grant of licence and one month after end of the three year period being reported on.
Specified Engineering Works reports	As they arise	Prior to the works commencing.
Noise Monitoring	Annually	One month after end of the year being reported on.
Air Emissions Monitoring	Annually	One month after end of the year being reported on.
Groundwater Quality Monitoring	Annually	One month after end of the year being reported on.
Any other monitoring	As they occur	Within ten days of obtaining results

Note 1: Unless altered at the request of the Agency

SCHEDULE G : Content of the Annual Environmental Report

Annual Environmental Report Content
<p>Reporting Period.</p> <p>Waste activities carried out at the facility.</p> <p>Quantity and Composition of waste received, disposed of and recovered during the reporting period and each previous year.</p> <p>Quantity and nature of recovered solvent dispatched from the facility.</p> <p>Quantity and nature of wastes dispatched from the facility for recovery or disposal.</p> <p>Summary report on emissions.</p> <p>Summary of results and interpretation of environmental monitoring.</p> <p>Resource and energy consumption summary.</p> <p>Proposed development of the facility and timescale of such development.</p> <p>Report on development works undertaken during the reporting period, and a timescale for those proposed during the coming year.</p> <p>Estimated annual and cumulative quantity of indirect emissions to groundwater.</p> <p>Report on the progress towards achievement of the Environmental Objectives and Targets contained in previous year's report.</p> <p>Schedule of Environmental Objectives and Targets for the forthcoming year.</p> <p>Full title and a written summary of any procedures developed by the licensee in the year which relates to the facility operation.</p> <p>Tank, pipeline and bund testing and inspection report.</p> <p>Reported incidents and complaints summaries.</p> <p>Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.</p> <p>Report on training of staff.</p> <p>Boiler efficiency test results.</p> <p>Any other items specified by the Agency.</p>

**Signed on behalf of the said Agency
on the 16th day of May 2001**

A. Bolger Authorised Person