

INSPECTORS REPORT
WASTE LICENCE REGISTER NUMBER 61-1

(1) Summary:

Name of Applicant	Mr. Binman Ltd.
Facility Name (s)	Mr. Binman Ltd, Luddenmore, Grange Kilmallock, Co. Limerick
Facility Address	Luddenmore, Grange Kilmallock, Co. Limerick
Description of Principal Activity	Transfer Station
Quantity of waste (tpa)	24,000 (max)
Environmental Impact Statement Required	No
Number of Submissions Received	One
INSPECTOR'S RECOMMENDATION	The proposed decision, as submitted to the Board, be approved.

Notices	Issue Date(s)	Reminder(s)	Response Date(s)
Article 14 (2) (b) (i)	Not Applicable		
Article 14 (2) (b) (ii)	15 /12/98		29/1/99, 1/6/99, 28/6/99
Article 14 (2) (a)	29/7/99		
Article 16	Not Applicable		

Applicant Address	Luddenmore, Grange, Kilmallock, Co. Limerick
Planning Permission status and date granted (if appropriate)	Granted 24/1/1995 (1259/94) Granted 5/8/99 (99/875)
Planning Authority	Limerick County Council
Is the facility an existing facility:	Yes
Prescribed date for application:	1 st October 1999
Date Application received:	30 th September 1998
Confidential Information Submitted	Not Applicable
Location of Planning Documents in Application	Attachment B.3

FACILITY VISITS:

DATE	PURPOSE	PERSONNEL	OBSERVATIONS
23/10/98	Site visit	T O Mahony	Visit Site and discussions with applicant.
18/11/98	Site visit	B Donlon	Visit Site and discussions with applicant.
21/7/99	Site Visit and meeting with applicant	B Donlon	Visit Site and verify new site notice compliant with regulations.

(2) Class/Classes of Activity

The class(es) of activities for which the applicant has applied are marked below. The principal activity is indicated by (P), other activities by (X).

Waste Management Act, 1996			
THIRD SCHEDULE Waste Disposal Activities		FOURTH SCHEDULE Waste Recovery Activities	
1. Deposit on, in or under land (including landfill).		1. Solvent reclamation or regeneration.	
2. Land treatment, including biodegradation of liquid or sludge discards in soils.		2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).	X
3. Deep injection of the soil, including injection of pumpable discards into wells, salt domes or naturally occurring repositories.		3. Recycling or reclamation of metals and metal compounds.	X
4. Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.		4. Recycling or reclamation of other inorganic materials.	X
5. Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.		5. Regeneration of acids or bases.	
6. Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 10 of this Schedule.		6. Recovery of components used for pollution abatement.	
7. Physico-chemical treatment not referred to elsewhere in this Schedule (including evaporation, drying and calcination) which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 10 of this Schedule.		7. Recovery of components from catalysts.	
8. Incineration on land or at sea.		8. Oil re-refining or other re-uses of oil.	
9. Permanent storage, including emplacement of containers in a mine.		9. Use of any waste principally as a fuel or other means to generate energy.	
10. Release of waste into a water body (including a seabed insertion).		10. The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.	x
11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.		11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.	
12. Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.	P	12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.	
13. Storage prior to submission to any activity referred to in this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.	x	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.	x

Class description:

Third Schedule

Class 12: This refers to the transfer of non-recoverable waste into large articulated vehicles for transfer to landfill.

Class 13: This refers to the temporary storage of non-recoverable wastes prior to dispatch to landfill.

Fourth Schedule

Class 2: This refers to the recovery and temporary storage of cardboard and wood separated from waste accepted at the facility. It also refers to possible future composting of waste at the facility.

Class 3: This refers to the recovery and temporary storage of metal waste separated from waste accepted at the facility.

Class 4: This refers to the recycling of glass bottles on site. It also refers to possible future recovery and temporary storage of construction and demolition wastes.

Class 10 This refers to the proposal to spread the compost produced at the facility on land subject to the agreement of the Agency.

Class 13: This refers to the storage of materials on site prior to recovery at the facility or removal to a recovery facility off-site.

Activities recommended for licensing:

It is recommended that all the above activities, for which the applicant has applied for a waste licence, be licensed subject to the conditions contained in the Proposed Decision.

(3) Facility Location

Appendix 1 contains a location drawing and a layout drawing showing the significant features of the facility.

The facility is located at Luddenmore which is 10 miles outside Limerick City. The owners of the facility live adjacent (c. 50m) to the main transfer station. There are three residences within 500metres of the facility and a quarry (Ballyneety Roadstone) approximately 1km from the facility.

(4) Waste Types and Quantities

It is estimated that 15,000 tonnes of non-hazardous waste will be accepted at the facility in 1999. There will be no hazardous waste accepted at the facility.

(5) Activity Summary

This facility operates as a waste transfer station. Commercial, industrial and domestic non-hazardous wastes are accepted. Approximately 50% of the waste arriving is by Mr Binman's collections. The remainder is brought to the facility by the County Councils' collection vehicles since the closure of the landfill at Croom, Co. Limerick. Currently most of the waste is repackaged into large containers for transport to landfill. Some cardboard, glass bottles and metal wastes are recovered at the facility.

(6) Facility Operation/Management

• Waste Acceptance Procedures

Conditions 5.1 and 5.2 specify the waste types acceptable at the facility. Hazardous waste is not acceptable at the facility. Condition 3.11 specifies the record that must be maintained for each load of waste arriving at and being removed from the site.

A weighbridge and control room have recently been constructed at the facility.

• Waste Handling

Once the waste arrives at the transfer station it is loaded into the hopper. A hydraulic ram pushes the waste into the transfer trailer prior to disposal at an appropriate landfill facility. Waste destined for landfill, recovered and rejected materials are recorded (weight, destination, nature, etc.) prior to dispatch from the facility (Condition 3.11). Waste must only be accepted at the facility from known customers or new customers subject to initial waste characterisation off-site (Condition 5.4).

Bottles and cans are separated by hand into their respective colours. There are plans to upgrade this operation in the near future and planning has recently been approved for the erection of a bottle shed and bottle bays (175 sq m). Condition 4.11 requires the installation of this infrastructure within nine months of the date of grant of licence.

Processing of cardboard has not been practised in the past 12 months for economic reasons but there is planning permission to construct a small enclosed unit adjoining the present transfer station.

Condition 5.11 requires the licensee to submit proposals for new waste processing systems to the Agency for its agreement (e.g. composting, glass separation).

• Nuisance Control

Litter and vermin (rats, birds and flies) should not pose a major nuisance problem due to the fast turn-around of putrescible waste (Condition 6.1) and the fact that all handling of waste, other than baled cardboard storage and possibly waste at the Waste Quarantine Area (which is to be installed subject to agreement), is carried out indoors.

Conditions 6.3 and 6.4 will minimise the possibility of litter generation outside the Transfer Building.

Odour nuisance will be regulated through Conditions 6.2 and 6.8.

A vehicle washing facility will be installed (Condition 4.13.2). All traffic movements on site will be on concrete surfaces within six months of the date of grant of licence (Condition 4.12) and road vehicles do not pass over deposited waste. Furthermore, Conditions 6.5 and 6.6 provide for the protection of the public highway. Thus it is envisaged that the public highway will be protected from mud/waste deposition due to vehicles exiting the site.

- **Dust Emissions**

Dust emissions from waste handling activities within the Transfer Building and fugitive dust emissions from on-site traffic are the dust emission sources. Six locations were monitored in the vicinity of the facility. All sites were typical of rural background dustfall levels.

- **Hours for Waste Acceptance**

Condition 5.9 lays down the following operating hours, as specified in the licence application, subject to change agreed by the Agency:

Monday to Friday 8a.m. to 6p.m. Saturday from 8.00a.m. until 2.00p.m.

(7) Facility Design

- **Infrastructure;**

At present there is a transfer station building, partially covered recycling bays for cans and glass. Planning permission has recently been approved for an extension to the transfer station (300 sq m) and compactor unit, provision of storage sheds for cardboard and bottles, installation of foul water treatment plant and oil-interceptor.

The timeframe for the installation of these is outlined in Condition 4 of the proposed decision.

(8) Restoration and Aftercare

Mr Binman Ltd. propose to remove all plant, waste, raw materials and substances from the site upon cessation of activities, thereby removing all potential sources of environmental pollution and returning the facility back to agriculture in the event of closure. Furthermore, Condition 11.2.1 provides for a costed Environmental Liabilities Risk Assessment in advance of facility closure. It is envisaged that no aftercare will be required for this site following this clean-up due to the nature of

the activities undertaken at this site. However, Condition 8.1 allows for a review of the decommissioning and aftercare plans at the instigation of the Agency. Condition 11.2 will generate a financial provision for the closure of the site.

(9) Hydrogeology

Foul water will be treated using a aerated biofilter and polished using a sand filter to 10mg/l BOD and 10mg/l SS prior to percolation to groundwater. Condition 7.6 requires a study of the on-site soil conditions by a qualified engineer prior to commencement of the treatment plant and percolation system.

Condition 4.12 requires the provision of an impermeable surface for truck movements and parking in order to protect groundwater from indirect fuel and oil discharges and this must discharge via an oil separator to soakway. The existing fuel storage tank will be relocated and properly bunded within four months of the date of grant of licence (Condition 4.4.). Drainage from the fuel dispensing area, unless contained within the bund, shall be directed through an oil separator (Condition 4.4). Condition 10.2 specifies the provision of spill abatement material.

(10) Emissions to Air

The potential emissions to air at this site are dust from the Transfer Building and fugitive dust from on-site traffic. Dust will be controlled under Condition 9.1 of the PD with the dust deposition limit given in Schedule G.

(11) Noise Emissions

The sources of noise emissions are a bulldozer, an excavator, site traffic and a cardboard compactor/baler. The facility is located in a rural area and the noise monitoring results indicated values typical of rural background levels.

Annual noise monitoring is required at the locations outlined in Schedule F.2 while noise emission limits are set in Schedule G.1.

(12) Emissions to Sewer

There are no emissions to sewer.

(13) Emissions to Surface Water

There are no nearby water courses. All surface water run-off will be discharged via an oil separator to an on-site soakpit.

(14) Other Significant Environmental Impacts of the Development

None.

(15) Waste Management, Air Quality and Water Quality Plans

None

(16) Submissions/Complaints

Limerick County Council made a submission in which they expressed their concern in respect of discharge of treated effluent to groundwaters. The proposed location is described as LM/E that is a moderately productive aquifer of local importance that is extremely vulnerable.

Response:

In the Agency Draft Document (18/2/1999) entitled: "Groundwater Protection Responses for On-site Systems for Single Houses" a LM/E groundwater vulnerability rating relating to on-site treatment systems is determined to be "Probably Acceptable, subject to normal good practice".

Condition 13 of their waste permit (from Limerick Co. Co) states: "*All washings and leachate arising from the operation of the plant shall be disposed of in an approved effluent disposal system*". Past practice at this facility had been to store this foul water with cattle slurry followed by landspreading. The proposed decision requires separation of these waste streams, storage in a dedicated pre-cast concrete tank and on-site treatment using a aerated biofilter and polished using a sand filter to 10mg/l BOD and 10mg/l SS prior to percolation to groundwater.

Condition 7.6 requires a study of the on-site soil conditions by a qualified engineer prior to commencement of the treatment plant and percolation system. Condition 7.5 deals with the removal of foul water off-site prior to commissioning of the treatment plant or in the event of breakdown of the plant.

Treatment to tertiary standards allied with suitable on-site soil conditions should ensure protection of groundwaters.

Signed: _____

Dated: _____

Brian Donlon, Inspector I,
Environmental Management and Planning.

APPENDIX 1
LOCATION PLANS