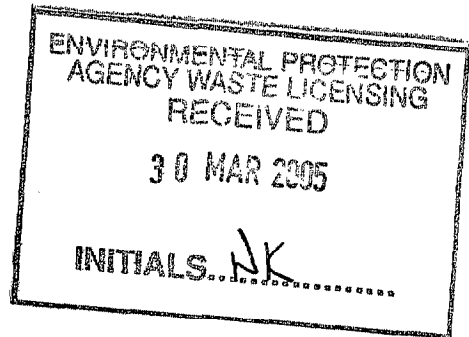


Midland Waste Disposal Company Ltd.,



Waste Licensing
Waste Recovery/Disposal Activities
(Other than Landfill Sites)

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Section H

Materials Handling

Midland Waste Disposal Company Ltd.,

**Waste Licensing
Waste Recovery/Disposal Activities
(Other than Landfill Sites)**

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Section H1

***Waste Types and Quantities
– Existing & Proposed***

H.1 WASTE TYPES AND QUANTITIES

Midland Waste Disposal Ltd. have been in operation at the facility in Proudstown since 1991. The waste collected includes domestic household waste, commercial waste, industrial waste and construction and demolition waste. Hazardous waste is not accepted at the facility. Given the nature of the waste (i.e. domestic and commercial) and the method of collection (i.e. sundry skips) small quantities of hazardous waste may inadvertently admitted to the site (these are predominantly batteries & florescence lamps). Waste is collected from the greater Navan area covering the towns of Kells, Bettystown, Laytown and the North County Dublin region.

A weighbridge has been in operation at the site and details of the waste tonnages are available for outgoing wastes for the recording periods 2001 to 2004. These are detailed in table H.1/1 below:.

Table H.1/1: INCOMING WASTE AT MIDLAND WASTE DISPOSAL LTD

Code	Waste Type	Tonnage			
		2001 (13/3 – 31/12)	2002	2003	2004
1	Industrial	5252	6602	7723	8566
2	Commercial	3038	5037	5482	9507
	Cardboard			2000	
	Glass			105	
	Timber			214	
3	Construction & Demolition	893	2546	5471	10565
4	Household	4450	16222	17878	21853
	Dry Recyclable			1839	
Total Incoming Waste		13,633 tonnes	30,407 tonnes	40,712 tonnes	50,491 tonnes

It is proposed to increase the tonnages of waste accepted at the facility to 95,000 tonnes/annum. This will be made up of 15% Industrial, 20% commercial, 25% Construction & Demolition and up to 40% Household.

CATEGORIES OF WASTE RECOVERED ON SITE (WITH ASSOCIATED EWC CODE)**15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED**

- 15 01 Packaging (including separately collected municipal packaging waste)**
15 01 01 Paper and Cardboard Packaging
15 01 02 Plastic Packaging
15 01 03 Wooden Packaging
15 01 04 Metallic Packaging
15 01 05 Composite Packaging
15 01 06 Mixed Packaging
15 01 07 Glass Packaging

16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST

- 16 01 End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
16 01 03 End-of-life Tyres
16 01 20 Glass
- 16 06 Batteries and accumulators**
16 06 01* Lead Batteries
16 06 02* Ni-Cd Batteries
16 06 03* Mercury-containing batteries
16 06 04 Alkaline batteries
16 06 05 Other batteries and accumulators

17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SIL FROM CONTAMINATED SITES)

- 17 01 Concrete, bricks, tiles and ceramics**
17 01 01 Concrete
17 01 02 Bricks
17 01 03 Tiles and Ceramics
17 01 07 Mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
- 17 02 Wood, glass and plastic**
17 02 01 Wood
17 02 02 Glass
17 02 03 Plastic
- 17 04 Metals (including their alloys)**
17 04 07 Mixed metals
- 17 09 Other construction and demolition wastes**
17 09 04 Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03.

- 19 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
- 19 02 Wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
- 19 02 06 Sludges from physico/chemical treatment other than those mentioned in 19 02 05
- 19 08 Wastes from waste water treatment plants not otherwise specified**
- 19 08 05 Sludges from treatment of urban waste water
- 19 08 12 Sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
- 19 08 14 Sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
- 19 12 Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
- 19 12 01 Paper and Cardboard
- 19 12 02 Ferrous metal
- 19 12 03 Non-ferrous metal
- 19 12 04 Plastic and Rubber
- 19 12 05 Glass
- 19 12 07 Wood other than that mentioned in 19 12 06
- 19 12 08 Textiles
- 19 12 09 Minerals (for example sand, stones)
- 19 12 12 Other waster (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

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20 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**20 01 Separately collected fractions (except 15 01)**

- 20 01 01 Paper and Cardboard
- 20 01 02 Glass
- 20 01 08 Biodegradable kitchen and canteen waste
- 20 01 10 Clothes
- 20 01 11 Textiles
- 20 01 38 Wood other than that mentioned in 20 01 37
- 20 01 39 Plastics
- 20 01 40 Metals
- 20 01 99 Other fractions not otherwise specified

20 02 Garden and park wastes (including cemetery waste)

- 20 02 01 Soil and stones

20 03 Other municipal wastes

- 20 03 01 Mixed municipal waste

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Midland Waste Disposal Company Ltd.,

**Waste Licensing
Waste Recovery/Disposal Activities
(Other than Landfill Sites)**

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Section H2

Waste Acceptance Procedures

Disposal agents for waste

Name of Facility	Address	Waste Licence/Permit
Coranure Landfill	Cavan County Council Cootehill Road, Cavan	EPA 77-1
Kyletalesha Landfill	Laois County Council	EPA Waste Licence 26-2
Padriag Thornton Waste Disposal Ltd	Kileen Road, Ballyfermot, D10	EPA Waste Licence 44-2
Failand Paper Services Ltd	11 Triangle South, Clifton, Bristol, UK	
Nurendale Ltd		
Drumgoon Recycling		
Organic Gold		
Navan Gas		
McCarthy Duigean site,		Meath County Council Permit WMP 2000/30
Jack Marry site		Meath County Council Permit WMP 2000/36
Owen Hoey		Meath County Council Permit WMP 2002/7
AES Ltd.,	Cappincur, Tullamore, Co. Offaly	EPA Waste Licence No. ??
Clearway Ltd	Portadown, Co. Armagh	984 510 Waste licence with Craigavon Borough Council dated 18 th May 1988
Whiteriver Landfill	Louth County Council Co. Louth	EPA Waste Licence No. 60-2
Gormley Metals	Monery, Crossdoney, County Cavan	Cavan County Council Permit: WP/00/1
Derryclure Landfill	Offaly County Council Tullamore, Co. Offaly	EPA Waste Licence No. 29-2
Kevin J. Kane	Williamstown, Navan, Co. Meath	Meath Co. Co. waste permit WMP2003/27
Crumb Rubber Ireland Ltd.,	Moortown, Dromiskin, Co. Louth	Louth Co. Co. Waste Permit WP 033/02
Panda Waste Services	Rathdrinagh Business Pk, Beauparc, Navan, Co. Meath	EPA Waste Licence No. 140- 1
Ballaghveny Landfill	Tipperary County Council Nenagh, Co. Tipperary	EPA Waste Licence No. 78-1
Doherty Quarries	Cruicetown, Slane, Co. Meath	Meath Co. Co. Waste Permit No. WMP 2001/34

Name of Facility	Address	Waste Licence/Permit
KTK	Kilcullen, Co. Kildare	EPA 81-2
Murphy concrete Manufacturing	The Naul, Co. Dublin	EPA 129-1
Murphy concrete Manufacturing	Sarsfieldtown, Gormanstown, Co. Meath	EPA 151-1
Bailey Waste Paper	Ballycoolin, Dublin 11	WPT1

All Batteries collected are taken by –

Returnbatt Ltd.

(Waste Permit: 97/2002)

Unit 35

Kildare Enterprise Centre

Melitta Road

Kildare

All Fluorescent tubing is taken by –

Irish Lamp Disposal

(Waste Permit: 02/2000a)

Kilkenny Road

Athy

Co. Kildare

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H.2 WASTE ACCEPTANCE PROCEDURES

Midland Waste Disposal Ltd., collect waste from the greater Navan area covering the towns of Kells, Bettystown, Laytown and the North County Dublin region. The facility will accept and handle waste between the hours of 06:00 and 20.00 hrs Monday to Saturday. The facility will not handle waste on Sundays or public holidays.

Upon collection of a waste skip at source, the vehicle driver will inspected the load visually to ensure all wastes are acceptable. In the event that unacceptable waste material is found, the material will not be accepted and the waste shall be returned to the source.

The current waste acceptance procedure involves the use of an Integrated Waste Software System. This software is linked to the on-site weighbridge and is used for recording the quantities of waste accepted on-site. All incoming waste is transferred by Midland Waste Disposal Company Limited and M&J Recycling Services Ltd vehicles unless otherwise reported on the weigh docket and environmental procedure form EPF2.1.

- *Entrance to Facility*

Entry to the site is through the entrance along the northern boundary of the site at the weighbridge. Entry to the site will be monitored by the site manager (or his/her deputy) who is on-site at all times during opening hours of the facility. Upon entry to the facility, waste is weighed at the entrance weighbridge and the driver enters the vehicle registration number into the system. The driver then prints an individual weigh docket for each waste load. All weigh dockets are filed by an office staff member in the Weight Docket File in the General Manager's Office.

- *Records*

A waste description form is completed by the weigh bridge operator. Information recorded is detailed hereunder:

- i. Registration number of vehicle.
- ii. Name of producer/collector of waste.
- iii. Name of person
- iv. Waste type or category in accordance with Schedule H of the Waste Licence.
- v. EWC Code
- vi. Quantity of waste accepted.
- vii. Transaction Number.
- viii. Date of receipt.

- *Acceptance/Inspection of Waste*

After weighing, each waste load is brought to the enclosed Recycle Plant Building, where it is deposited on the floor for visual inspection. The Waste Segregation Manager (Mr. Bernard Kelly) is responsible for carrying out the waste visual inspections and for maintaining a written record of all inspections. Written records of these waste inspections are conducted each working day on the waste inspection form EPF2.3: Incoming Waste Inspection Audit Sheet, which is generated through the waste software system. (refer to attachment C.2) Only after visual inspection can the waste be processed for disposal or recovery. Once the waste is recorded, the driver is directed to the waste inspection areas to offload the waste load by the yard supervisor. If any waste is deemed unacceptable it is placed in the waste quarantine area and removed off-site, to the source if possible, or to an appropriately licence waste facility. Hazardous waste is not accepted at the facility, however due to the nature of the waste and waste collection, small quantities of waste of a hazardous nature may be inadvertently accepted at the facility. Hazardous waste in the form of batteries, and fluorescent tubing are segregated into designated storage units and subsequently forwarded for authorised disposal. All acceptable wastes are processed at the facility.

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Midland Waste Disposal Company Ltd.,

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Waste Recovery/Disposal Activities
(Other than Landfill Sites)**

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Section H3

Waste Handling

H.3 WASTE HANDLING

Once the waste load has been accepted at the facility, and recorded at the weighbridge, it is directed into the Recycling Plant Building for processing. The waste is inspected for hazardous waste in the form of fluorescent lights, batteries, paints and other unacceptable wastes. These hazardous waste fractions will be segregated and stored in the designated storage units, and removed by authorised disposal agents. Any other waste that is deemed not acceptable at the facility (i.e. hazardous waste) will be directed to and stored in the waste quarantine area. Where possible unacceptable waste will be returned to source, or will be disposed off-site by an authorised disposal agent.

When all hazardous material has been removed, the remaining waste material is sorted according to recycling potential and is either deemed suitable for recycling/recovery or segregated for final authorised disposal.

The categories of waste deemed suitable for segregation and recycling is dependent on available markets for such materials. Materials commonly accepted for recycling include Cardboard/ Newsprint, Timber, Construction & Demolition waste (suitable for land reclamation), Glass, Steel, Green Waste and Plastic and on occasion empty gas cylinders and tyres. Steel/Iron and green waste await approved outlets from the agency.

Cardboard and newsprint is separated, baled or compacted, and forwarded to appropriate outlets for recycling. Recovered timber (including timber pallets) is either shredded on-site for use within the composting system or is forwarded off-site for recycling. Glass from the Co. Meath catchment area is accepted at the Clonmaggadan site in recycling storage containers. Glass is stored on the facility within the Bottle Bank area. The Bottle Bank is divided into 3 compartments, used for the segregation of green, clear and brown coloured glass respectively. The glass is collected and taken off-site for recycling. Steel and plastic is segregated and forwarded off-site to an approved licence facility for recovery.

Pre-sorted dry recyclable municipal waste is accepted at the facility through the blue-bin system. This waste includes Newspaper, Aluminium Cans, Plastic Bottles, Magazines, Steel-Tin Cans, Cardboard Packaging, and Tetra pak. The dry recyclable waste is deposited on the floor for visual inspection and put through the in-floor baler system. The material is directed off-site for further treatment within an appropriately licensed facility.

Clean Topsoil and Clean Construction and Demolition Waste is accepted at the facility. This material is directed to appropriately permitted/licensed facilities for land reclamation.

Green waste accepted and recovered at the facility is either forwarded off-site for composting or directed to the VCU unit for composting on-site. Waste to be composted at the facility include the fines generated during the trommelling of household black bins and green waste accepted at the facility and shredded timber (as per waste acceptance and handling procedure EP 2.0). The composting unit operates on a 7 day process with the material harvested prior to additional feed stock being supplied to the composting unit. The compost is made up of 1 part organic material (made up of the trommell fines) and 2 parts bulking agent (shredded timber), which is blended prior to being put into the composting unit. Blended material is fed into the composting units by an open conveyor belt. The material is checked on the conveyor belt and any non-organic matter is removed manually. This material is removed off-site for disposal.

Harvesting of material. Harvesting of material takes place twice daily (am/pm). The quantities of compost harvested is controlled manually from within the control room of the VCU unit. 9% of each cell is harvested during each harvesting programme. The material is removed from the front of the unit (by a loading shovel with dedicated bucket) on a continual basis, during the harvesting, to ensure no accumulation of composted material occurs.

The composted material is sent through a trommel to remove the bulking agent (timber) and any large non-biowastes present. The composted material is stockpiled behind the trommel and further removal of non-biowastes present is undertaken manually. The timber and non-biowastes, removed during the trommelling process, are fed directly from the trommel into a skip. Currently, the finished compost is directed off-site for disposal. It is proposed to use the product in future for landfill cover and/or forward off-site for further maturation. Any non-biowastes (bulking agent & debris) removed during the process are removed off site for disposal.

Organic matter entails the fines generated for the trommelling of household waste at the facility. These fines are stock piled adjacent to the trommell on the floor of the recycling plant building. When required the organic fines are forwarded to the composting unit. There will be no storage of organic matter within the immediate vicinity of the composting unit. The bulking agent will consist of shredded timber generated at the facility. This material will be held within the Recycling Plant Building and forwarded to the composting unit when required. If permissible recycled bulking agent will be used in the process. This material will be held within a dedicate skip adjacent to the composting unit.

Empty gas cylinders and tyres can be inadvertently accepted at the facility in household and commercial skips. Both the empty gas cylinders and tyres are segregated and stored into dedicated skips. These skip are held outside of the recycling plant during working hours and brought into the Recycling plant at the end of business each day for overnight hours. The dedicated skip is stored overnight beneath the conveyor belt in the Recycling plant. The empty gas cylinders are collected and taken off-site by Navan Gas (ph. 046 21755) while the tyres are directed off-site for recovery.

All waste not deemed suitable for recycling/ recovery is loaded into designated Ro-Ro Bins/open top ejector trailers or is compacted within one of two compactors on-site. All compacted wastes are sealed within specialised containers and are subsequently transported for authorised disposal.

Disposal agents for waste

Name of Facility	Address	Waste Licence/Permit
Coranure Landfill	Cavan County Council Cootehill Road, Cavan	EPA 77-1
Kyletalesha Landfill	Laois County Council	EPA Waste Licence 26-2
Padriag Thornton Waste Disposal Ltd	Kileen Road, Ballyfermot, D10	EPA Waste Licence 44-2
Failand Paper Services Ltd	11 Triangle South, Clifton, Bristol, UK	
Nurendale Ltd		EPA Waste Licence 140-1
Drumgoon Recycling	Cavan	Cavan County Council Permit 02/6
Organic Gold		Meath County Council Permit WMP 2002-26
Navan Gas	Navan, County Meath	-
McCarthy Duigean site,	Proudstown, Navan, Co. Meath	Meath County Council Permit WMP 2000/30
Jack Marry site	Tullyallen, Drogheda, Co. Louth	Meath County Council Permit WMP 2000/36
Owen Hoey	Baldara, Trim, Co.Meath	Meath County Council Permit WMP 2002/7
AES Ltd.,	Cappincur, Tullamore, Co. Offaly	EPA Waste Licence No. 140- 1
Clearway Ltd	Portadown, Co. Armagh	Waste licence with Craigavon Borough Council dated 18 th May 1988
Whiteriver Landfill	Louth County Council Co. Louth	EPA Waste Licence No. 60-2
Gormley Metals	Monery, Crossdoney, County Cavan	Cavan County Council Permit: WP/00/1
Derryclure Landfill	Offaly County Council Tullamore, Co. Offaly	EPA Waste Licence No. 29-2
Kevin J. Kane	Williamstown, Navan, Co. Meath	Meath Co. Co. waste permit WMP2003/27
Crumb Rubber Ireland Ltd.,	Moortown, Dromiskin, Co. Louth	Louth Co. Co. Waste Permit WP 033/02
Panda Waste Services	Rathdrinagh Business Pk, Beauparc, Navan, Co. Meath	EPA Waste Licence No. 140- 1
Ballaghveny Landfill	Tipperary County Council Nenagh, Co. Tipperary	EPA Waste Licence No. 78-1
Doherty Quarries	Cruicetown, Slane, Co. Meath	Meath Co. Co. Waste Permit No. WMP 2001/34

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