

ATTACHMENT E  
WASTE ACCEPTANCE AND HANDLING

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## **E.1 Existing Waste Types and Quantities**

The facility will operate Monday – Saturday, 6am – 8pm

### **E.1.2 Hazardous Waste Types and Quantities**

No hazardous waste will be handled at the facility.

### **E.1.3 Non-Hazardous Waste Types**

#### *INERT OR INACTIVE WASTE*

The type of waste listed in E.1.3 is in the main inert C & D waste. The facility does not currently accept such waste, other than a small number of skips which would contain minimal quantities of the waste stream mentioned. However, it is expected that this will increase once Regulations regarding C & D waste are fully enforced. As to how this sector will expand will depend very much on the reaction of the building industry and how individual contractors decide on compliance, will they use the existing waste industry or will they put their own provision in place?

#### *BIODEGRADABLE WASTE*

The main source of biodegradable waste being handled at the facility is from domestic/commercial customers, which could include paper, vegetable matter, road sweepings, ash and cinder and foodstuffs.

Wood and wood products, such as packaging, are also salvaged from skips and may possibly in the future be collected separately from the commercial sector.

Paper and cardboard is currently collected from commercial customers, and these products also come in as part of the kerbside collection of dry recyclables.

Road sweepings have come in on a small number of occasions from Leitrim County Council, and now that a weighbridge has been installed at the facility it is expected that this waste stream will increase

### **E.1.4 Other Wastes**

Plasterboard and plaster are found in negligible amounts in private skips, coming in the main from private households.

Glass is currently being accepted at the facility in the main to allow the applicants commercial customers to be compliant with the packaging waste regulations. The current tonnage is low and is transferred for further processing to a facility in Cavan. It is expected that this waste stream will increase.

Plastic is recovered from skips and is collected from commercial customers as packaging waste. Again, current amounts are small but are expected to increase. Plastics also form part of the kerbside dry recyclable collection.

The amount of rubber waste is negligible. From time to time items such as rubber belts, etc may arise in skips collected from both the private and commercial sector.

Empty containers arise from time to time in skips from the commercial and industrial sector in the form of empty metal or plastic barrels. Only clean empty containers are accepted. No containers that contained hazardous materials will be accepted at the facility.

A distinction has been made here between plastic packaging and plastic containers, which also arise from the food industry and from kerbside collection.

MSW is currently the main waste stream and accounts for approximately 80% of all waste accepted. This includes household, and commercial waste. This waste has already been included above, as we have mentioned food waste, ash & cinders, paper, glass and plastics. This waste is immediately reloaded upon arrival and transferred to landfill. Nothing is or shall be salvaged from this waste stream.

## E.2 Proposed Waste Types and Quantities

### Table E.2.1 Waste Types and Quantities

This facility involves a considerable investment for the applicant. It is in his interest to increase the tonnage, of all waste streams being accepted, in order to ensure the economic viability of the facility into the future.

Opportunities may present themselves such as other waste contractors using the facility for the transfer of MSW and dry recyclables. The development of a picking line may also increase the amount of kerbside dry recyclables passing through the facility. It is not yet known if this waste stream can be attracted. It is also possible that Leitrim County Council will use the facility for all of their road sweepings, help to develop the applicants proposed civic amenity, or use the facility to service their current civic amenity and bring bank sites. The applicant would like to be in a position to offer these services if given the opportunity.

Any or all of these scenarios would increase the tonnage passing through the facility. However, none of these are definite, and current plans are being based on waste currently being handled by the applicant and how that tonnage might reasonably be expected to increase. It would not be possible to speculate with any accuracy with regards any of the above scenarios coming to fruition.

We have reproduced tables from B.8, shown below, in order to show the expected increase in tonnage.

### Annual Quantities and Nature of Wastes

Year	Non-hazardous waste (tonnes per annum)	Hazardous waste (tonnes per annum)	Total annual quantity of waste (tonnes per annum)	Notes
2002	5,786.90	0.00	5,786.90	1
2003	6,946.90	0.00	6,946.90	2
2004	7,610.00	0.00	7,610.00	
2005	9,300.00	0.00	9,300.00	
2006	10,000.00	0.00	10,000.00	
2007	12,400.00	0.00	12,400.00	
2008	15,800.00	0.00	15,800.00	

These figures have been calculated as follows:

### Breakdown of Waste Arising 2002 – 2008

Year	MSW	Mixed Dry Rec / Kerbside	Packaging Waste (Commercial)	C & D	Scrap Metal
2002	5,786.90				
2003	6,901.89	45.70			
2004	7,000.00	520.00	40.00	0.00	50.00
2005	7,200.00	1,500.00	500.00	0.00	100.00
2006	7,000.00	2,000.00	700.00	100.00	200.00
2007	7,200.00	3,000.00	1,500.00	400.00	300.00
2008	7,300.00	3,500.00	2,000.00	2,000.00	1,000.00

1. The totals waste collected is calculated on average figures for the later six-month period of 2002, as records were not collated prior to this time.

2. Total waste collected is as per AER to relevant authority. These figures may include waste diverted directly to landfill.

### E.2.2 Hazardous Waste Types and Quantities

No hazardous waste will be handled at the facility.

### E.2.3 Non-Hazardous Waste Types

#### *INERT WASTE*

As can be seen from the table above no C & D waste for 2004 and 2005. However negligible amounts do appear from time to time. These skips are collected in the main as one off skips. We believe that this waste stream has the potential to increase dramatically with the enforcement of regulations over the next number of years. As to how this sector will expand will depend very much on the reaction of the building

industry and how individual contractors decide on compliance, will they use the existing waste industry or will they put their own provision in place?

### *BIODEGRADABLE WASTE*

It is expected that all the waste streams accepted in this section will increase due to segregated collection from households and commercial premises. A third bin may be introduced to households for the collection of biodegradable waste suitable for composting, i.e., food waste and vegetable matter. However, it is not expected that this extra collection will be put in place in the short term. If and when it is put in place the waste will be reloaded and sent directly to another facility for composting.

### **E.2.4 Other Wastes**

Packaging waste in the form of cardboard is collected separately from commercial customers. This waste stream is expected to increase. It is intended to extend this collection to the separate collection of plastic packaging and glass.

All research and indications are that WEEE goods stream is expanding rapidly and an increase in this stream has been allowed for in this application.

MSW is the main waste stream coming into the facility and accounts for approximately 80% of all waste accepted. This includes household, and commercial waste. As the facility develops the ratio between MSW and recyclables is expected to decrease. It is not expected that the amount of MSW will increase significantly, however the amount of recyclables collected is expected to increase. The introduction of a third bin (biodegradable collection) would possibly reduce the MSW stream, but this is not foreseen in the short to medium term. This waste will be reloaded upon arrival and transferred to landfill. Nothing is or shall be salvaged from this waste stream.

### **E3 Waste Acceptance Procedures**

The facility will be operate as follows:

Monday – Saturday                      6am – 8pm

The applicant operates a waste collection service as well as the proposed facility. The vehicles for this are parked on site overnight, and leave the premises at 6am each morning. These vehicles return, in the main, to the facility between 2.30pm and 4.30pm each evening. The opening hours of 6am have been put in place in order to facilitate the vehicles involved in the waste collection service which leave the facility at this time. However, the weighbridge and facility personnel will not commence work until 8am.

It is not envisaged that the facility will operate outside these hours in the normal course of events. This having been said the type of service being provided by the firm is of an essential nature and from time to time it is necessary to work outside of normal hours. It would be essential from a practical point of view to have access to

the facility outside normal working hours in order to facilitate customers who will require waste moved, as a matter of urgency, for whatever reasons. This could include the additional emptying of recycling banks for County Council over holiday periods such as Christmas and Bank Holidays.

The location of the facility, which is in a non-residential area, would allow work to be carried out there at any time without inconvenience to the general public. We wish to stress that there will not be ongoing activity at the facility over the time scales mentioned. The reason such opening hours is to cover the eventuality of having to enter the facility in times other than the times that normal activity would take place, to cover emergencies.

All waste entering the facility will enter via the main gate and travel over the weighbridge. The driver will report to the check in office. The load will be weighed and checked and the contents noted, e.g. MSW, cardboard, glass, etc. The following information will be recorded.

- Date
- Time
- Weight
- Type
- Origin
- Vehicle Registration
- Waste Collection Permit No (if applicable)

These details are recorded, and a docket is given to driver to take to waste handling area. *Sample Docket attached.*

The waste will then proceed to the waste handling area, where waste will be unloaded and checked in more detail. Any discrepancies that arise at this stage should be reported immediately to the check in office, e.g. contaminated recyclables. A decision will then be made as to whether accept or reject the load. All incidents will be recorded.

All vehicles leaving the facility will travel over the weighbridge, except in cases where tare weight is recorded, i.e., applicants own vehicles.

#### **E.4. Waste Handling**

##### **Waste In**

##### *MSW*

The largest waste stream currently being handled at the facility is MSW. This waste arrives at the premises generally between 2.30pm and 4.30pm. This waste will be taken directly to the waste handling area, will be tipped, checked and immediately reloaded. When the bulker trailer is full it is currently taken directly to landfill as soon as is practical. When one bulker is full another will replace it immediately to ensure capacity at all times.

Large amounts of MSW are not and will not be stored in bulkers for long periods. It may be necessary over holiday periods to hold the MSW until the next working day. All MSW will be reloaded prior to the closure of the facility in the evening.

A loading bucket will be in situ to ensure that the loading area is kept clean at all times.

#### *Kerbside Dry Recyclables*

MSW and kerbside collection of dry recyclables are currently collected on alternative weeks, under By-law of Leitrim County Council. Only one type of waste will be handled at any given time in the waste handling area, i.e., MSW, kerbside recyclables or skips. Therefore it is not envisaged that kerbside recyclables will arrive at the same time as MSW. In the event of outside contractors bringing waste to the facility, they will be given designated times for clearing their loads at the facility. The acceptance of waste will be monitored to ensure that these waste streams are not mixed.

The same practice will apply to the kerbside collection of recyclables as is used in the handling of MSW. The recyclables will, after weighing, be taken to the waste handling area, tipped, examined and reloaded. Once the bulker trailer is full the load will be removed, as soon as is practical to an authorised facility for further processing.

A baler will be installed in the waste out area. This will be connected to the waste handling area via a conveyor belt. In the event of these types of recyclables having to be transported for long distances, or exported for further processing it may become necessary to bale them prior to dispatch. They will be fed from the waste handling area to the baler, via conveyor belt and hopper, baled, stored and transported by container or curtain sided truck once a full load has accumulated. Storage areas have been designated in the waste out area, and in three further sheds in the facility. However one of these sheds have been reserved for clean cardboard and plastic.

Further development may allow for the segregation of a kerbside collection and in this instance it will be fed to the baler from the waste handling area via the conveyor belt in separate waste streams, baled and stored prior to transportation.

#### *Skips*

The firm also operates a skip hire business. Skips will not be dealt with in the waste handling area while MSW or kerbside collected recyclables are being loaded or unloaded. The waste collection vehicles are expected on site between 2.30pm and 4.30pm. The waste handling area will be free for use by skip outside of these times. This area is large enough to accommodate the storage of a number of skips in the event of skips having to be stored overnight.

Skips will be emptied upon their arrival, if practical, and the salvaged recyclable sent to the designated areas, e.g. scrap metal to roll on/roll off skips, wood to roll on/roll off skips, cardboard and plastics to baler, with any residue not suitable for recovery or recycling will be removed immediately to bulker trailer for transfer to landfill.

### *Packaging Waste*

The commercial sector already has a separate collection in place for cardboard, and it is intended to extend this service to plastic packaging and glass. Where recyclables are segregated at source they will upon arrival be directed to designated storage areas. This collection is currently the source of the clean cardboard that is taken to shed, marked K on Map E, and baled. In the unlikely event of very large amounts of cardboard or plastic coming on stream these will be taken to the waste handling area and transferred to the larger baler via conveyor belt.

### *Proposed Civic Amenity Area*

Waste collected in this area will be segregated at source and will be moved to the facility proper, via the weighbridge. This waste will be checked into the facility proper in the same manner as all other wastes entering, with origin given as on-site civic amenity.

### **Waste Out**

All waste out will travel over the weighbridge and receive an origin and destination docket. Only permitted carriers will be allowed to carry waste out of the facility. Records will be kept of loads rejected at other facilities and returned to the applicant's facility. *Sample Docket Attached*

### **Personnel**

All personnel will be trained in procedures pertinent to their job description. All personnel will undertake Health & Safety training, and other statutory training as required.

### **E.5 Raw Materials and Energy**

Not Applicable

### **E.6 Plant**

Map E. shows the location of sheds and plant and has been labelled A – N.

**A: Weighbridge:** The type of weighbridge installed is a Globeweight Weighbridge, Model CSPM, with capacity 60,000 X 20kg minor weighing increments, with a length of 18m X 3m. This is a surface mounted weighbridge, and fitted with D800 indicator and TM295 ticket printer.

**B: Store:** Currently being used as a spray shed. It is intended that this store will be used in the future for the storage of clean dry recyclables.

**C: Waste Quarantine Area:** This area will only be used in the event of waste arising that has to be isolated for whatever reason. The waste will be kept at this location until such time as it can be dealt with in a prescribed manner.



**D: Waste Handling Area:** All waste coming to the facility will come to this area. Loading shovel will be operational to reload municipal waste immediately on its arrival, into the bulker parked at the lower level. Kerbside dry recyclables will also be reloaded in the same manner at different times. This area will also be used as a skip handling area.

**E: Roll on/Roll off Skips:** These skips will be used for the storage of dry recyclables, scrap metal, wood, etc, that will be salvaged from skips.

**F: Wood Shredder/Grinder (Proposed):** In the event of large quantities of wood waste streams becoming available a shredder will be used to decrease the bulk.

**G: Conveyer Belt:** This conveyer belt will be used to carry dry recyclables from the waste handling area to baler at lower level.

**H: Baler:** An Excel -2R10/2R10D Baler, 54HP, with fluffer, hopper, extension and photoeyes. It is fed from the conveyer belt directly to the hopper and will produce bales of up to 1 tonne weight.

**I: Storage Area:** The area marked I is reserved for the storage of dry recyclables prior to transportation.

**J: Bulker Trailer:** A trailer will be in situ at all times to receive MSW on its arrival or mixed dry recyclables collected at kerbside, as the case may be. Only one or other of these waste types will be handled at the one time.

**K: Storage Area:** This area is for the storage of high grade cardboard, collected separately from commercial customers and baled in this area.

**L: Baler:** This is a ½ tonne baler which is fed and operated manually and is reserved for the use of clean cardboard collected from commercial premises. Prior to the collection being put in place the applicant used this baler to bale cardboard which arose in his own retail business. He intends to retain this baler to handle higher grade cardboard in order to maximise value added.

**M: Storage Area:** This area is to the rear of the administration area that will be used for general storage or dry clean recyclables as required.

**N: Wash Bay Area:** A power wash will be used in this area for the cleaning of vehicles, receptacles, i.e., wheelie bins and skips.

**Other Plant:** A loading shovel and grab will operate within the waste handling area (D). A forklift will operate as required within the facility. A mechanical road sweeper will be used as and when required within the facility, and the approach road if necessary. A trommel may be introduced for C & D waste in the event of a significant increase in this waste stream. Consideration will also be given to the introduction of a grinder for the breaking down of glass. However, a market is currently available to the applicant and it is not intended to introduce such plant in the medium term. The Agency will be advised prior to the introduction of any addition plant, and as to plant method to be employed.

Sample Waste In Docket - Triplicate Book

<b>Joe McLoughlin Waste Disposal</b> Ardcolumn Drumshanbo Co Leitrim Tel: 071 9641103 * Fax: 071 9641184		Docket No: _____			
Origin:	Vehicle Registration:				
Haulier:	Date:	Time:			
WCP No: Delivery Note No:	Weight In:				
Description of Goods:	Weight Out:				
Net Weight:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Waste:</td> <td style="width: 35%; text-align: center;">Accept</td> <td style="width: 35%; text-align: center;">Reject</td> </tr> </table>		Waste:	Accept	Reject
Waste:	Accept	Reject			
Signed: _____ For Joe McLoughlin	Signed: _____ For Customer				
Comments					

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Sample Waste Out Docket - Duplicate Book

<b>Joe McLoughlin Waste Disposal</b> Ardcolumn Drumshanbo Co Leitrim Tel: 071 9641103 * Fax: 071 9641184			Docket No: _____		
Vehicle Registration:		Date:	Time:		
Weight Unladen:		Description of Goods:			
Weight Laden:		Consent of copyright owner required for any other use.			
Net Weight:					
Destination:		Waste:	Accepted	Rejected	
		Comments			
Signed: _____ For Joe McLoughlin					

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**Application Form-Map-19**

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