



ATTACHMENTS

WASTE LICENCE APPLICATION FOR WASTE RECOVERY FACILITY COOLATORE FERNS CO. WEXFORD

Prepared for:

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Abstract: Murray waste is applying to the Environmental Protection Agency for a waste licence to operate a waste recycling facility. This document comprises the waste licence application form and attachments.

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Section A Non-Technical Summary

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NON TECHNICAL SUMMARY OF THE WASTE LICENCE APPLICATION

This Waste Licence Application by Murray Waste Recycling Ltd. relates to the proposed extension to an existing waste recovery facility, currently operating under the Waste Management Acts 1996 to 2003 and Waste Management (Amendment) 2001 and The Permit Regulations 1998. The current waste permit for the facility was granted in January 2009 (WP/08/23).

The existing facility was constructed in 2005, having obtained planning permission and a waste permit from Wexford County Council. It is now proposed to extend the recycling building and associated site infrastructure. Accordingly the residual waste tonnages to landfill will exceed the 5,000 tonnes per annum disposal threshold and hence the application for a waste licence.

The site is located approximately 2 km south east of Ferns, Co. Wexford on the R745. The site is situated in a rural context and surrounding landuse is predominantly agricultural.

This non-technical summary has been prepared in accordance with Article 12(1)(u) of the Waste Management (Licensing) Regulations S.I. 395 of 2004. Sub-articles (a) to (t) of Article 12 are addressed below.

For clarity, the paragraph numbering is in accordance with the numbering of Article 12(1) (a) to (t).

Article 12(1)

(a) General Details

Murray Waste Recycling Ltd.,
Coolatore,
Ferns,
Co. Wexford

Tel.: 053-9366778
Fax: 053-9366860

(b) Planning Authority

The development is in the functional area of Wexford County Council.

(c) Sanitary Authority

Final effluent from the site is treated using an on-site wastewater treatment plant and raised percolation area. This is in the functional area of Wexford County Council, Spawell Road, Wexford (Ph: 053-9142211 Fax 053 9143406).

(d) Location

The facility is located in the townland of Coolatore, Ferns, Co. Wexford. The National Grid reference for the site is:

E 3040 N 1486

Drawing CE07-253-01-201 shows the location of the site.

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(e) Nature of the Development

Existing Development

The Murray Waste Recycling site comprises of a number of varying infrastructure including:

- Recycling building
- Weighbridge
- Administration office
- Construction and demolition (incl. timber processing area) waste recovery facility
- Surface water management system
- Waste water treatment plant

Current and Proposed Development

Murray Waste Recycling Ltd. is in operation since 2005 and consists of an existing recycling building and associated site infrastructure. The site itself occupies a total area of c.2.4 ha. The main activities at Murray Waste Recycling Ltd. is the recycling of material associated with the skip hire business. Residual waste is then bulked up of prior to transporting off site for disposal to a licensed facility. Mixed dry recyclable and municipal solid waste streams are also accepted at the site, prior to removal off site either for further recovery or disposal.

The proposed development which will include an extension to the existing recycling building will have a maximum capacity of 24,500 tonnes per annum and will accept non-hazardous household and commercial waste only. Bulking up the waste will limit the number of vehicles transporting waste for final disposal to approximately one ejector trailer every day.

The type of plant proposed at Murray Waste Recycling Ltd. will include

- waste storage infrastructure
- weighbridge
- vehicle parking
- hardstanding areas
- waste inspection and quarantine areas
- refuse collection vehicles and skips
- front end loader
- forklift
- mechanical grab
- trommel and picking line
- timber shredder
- compactor/ejector trailers.

The proposed hours for waste management operations are

- 06:30 to 21:00, Monday to Saturday and Bank Holidays

Proposed hours of waste acceptance/handling

The proposed hours for waste acceptance are

- 07:30 to 20:00, Monday to Saturday and Bank holidays

Proposed hours of any construction and development works at the facility and timeframes

The proposed hours for construction/maintenance operations are:

- 07:00 to 20:00, Monday to Friday
- 07:30 to 18:00, Saturday

(f) Class of Activity

In accordance with the Third and Fourth Schedules of the Waste Management Acts, 1996 to 2008, it is proposed to carry out the following classes of activity at the facility

THIRD SCHEDULE Waste Disposal Activities	Technical Description
11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.	This relates to mixing of waste on the floor of the recycling building prior to being placed into the ejection trailer pending removal off site to a licensed facility for disposal.
12. Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.	This activity refers to the waste which arrives on site in skips, trailers, and waste collection vehicles. This waste is inspected, and tipped onto the floor of the recycling building, with the recyclable fraction removed, or the incoming waste tumbled and the residual waste is repacked for disposal to a licensed facility.
13. Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.	This activity relates to the storage of waste material either on the floor of the recycling building in a designated bay or in the ejector trailer prior to removal off site to a licensed facility.
FOURTH SCHEDULE Waste Recovery Activities	
2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).	This activity relates to the recycling or reclamation of timber, green waste and other organic fractions, including paper and cardboard removed from domestic, commercial, industrial and construction and demolition wastes sorted on site, for shredding, bailing, stockpiling on site prior to removal off site.
3. Recycling or reclamation of metals and metal compounds.	This activity relates to the recycling or reclamation of metals removed from domestic, commercial, industrial and construction and demolition wastes sorted on site, bailed, or stockpiled in skips or waste trucks pending removal off site to a licensed or permitted facility.
4. Recycling or reclamation of other inorganic materials. (Principal Activity)	This activity relates to the recovery of plastics, glass, construction and demolition wastes, soil and stones, and other waste fractions not dealt with under classes 2 and 3 above from removal off site to a licensed or permitted facility.
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 relates to the storage of recyclable/recovered material removed from waste streams received at the site, either within the recycling building or in areas outside the recycling building for recovery/reclamation off site to licensed, permitted facilities or facilities suitable for the reuse of recovered materials. It is proposed to stored metals, wood, concrete aggregate, glass, baled plastics in the areas designated for C&D recovery/stockpiling prior to being removed off site for recovery.

(g) Quantity and Nature of Waste

A total of 24,500 tonnes per annum of waste is proposed to be accepted at the facility. The quantity of waste currently accepted and to be accepted at the facility in 2011 (maximum tonnage), is outlined below.

Waste Type	Tonnes per Annum	
	Present	2011
Metal waste	498	600
Plastic/rubber waste	50	84
Cardboard/paper waste	181	240
C&D waste/plasterboard	4,062	5,040
Biological compostable waste	117	1,680
Glass waste	17	60
Mixed dry recyclables	3,325	4,800
Mixed municipal waste and residual	6,571	9,600
Wood waste	2,075	2,400
Textiles	3	3

(h) Raw Materials

Electrical energy is used to power pumps, lighting and the administration building; Most of the plant is diesel powered; the amount used 2008-2009 is as follows:

PARAMETER	UNITS	08-09
Electricity	(kWh)	28,751
Diesel Fuel	(Litres)	147,379
Heating oil	(Litres)	2,000
Hydraulic engine oil	(litres)	1,904

Water is sourced from an on site groundwater well and is used in the administration building toilets, canteen and on site during the course of the business.

(i) Plant, Processes and Operating Procedures

The main operation at the proposed development will be the recovery of recyclable materials and the acceptance, handling and bulking of non-hazardous residual waste.

Loaded waste vehicles will arrive at the facility hardstanding area and will pass over a weighbridge before reversing into the recycling building. A system of lifting barriers and CCTV cameras at the weighbridge will control the movement and identification of vehicles arriving at the facility.

Details on the Site Plan and the internal layout of the recycling building are shown on Drawing CE07-253-01-206. It is proposed that the processing of mixed municipal waste will take place in the recycling building. Source separated waste (mixed dry recyclable) will be stockpiled on site pending further recovery using the picking line. The baling of plastics and metal recovery will take place within the recycling building. Waste skips will be tipped out onto the floor of the recycling building and recoverable materials mechanically removed. Residual waste from the skips will be shovelled into the articulated lorry for disposal to landfill. C&D recovery will take place on the proposed hardstanding area at the western side of the site, as shown in Drawing CE07-253-01-206.

Mixed solid waste will be tipped on the floor of the MRF building from the refuse collection vehicle. The waste will be inspected for non conforming waste on the floor of the recycling building. The remainder of the material will then be transferred to a bag opener and screener (trommel) where it will be mechanically and manually sorted. The three waste outputs will be organic fines, dry recyclables and residual waste.

The organic fines and dry recyclables will be sent to permitted/licensed facility. Residual waste will be sent to licensed facility for disposal. The mixed municipal waste stream treatment process is described in the attached flow diagram. This material will be tipped onto the floor of the MRF building for inspection. The dry recyclables will be sorted either by mechanical and/or by manual means. The different fractions of dry recyclables will be sent to a baler to produce bales of dry recyclables or stockpiled for removal to a recovery facility. The process for treatment of dry recyclables is shown below.

C&D waste will be tipped onto a proposed designated concrete area inside the recycling building where it will be inspected and sorted to remove large items. Material such as plastics, metal, timber and plaster board will be manually removed while been run through the trommel and picking line. Plaster board will be removed and stockpiled indoors on site prior being sent to an authorised recovery facility. The wood fraction and will be sent to the shredder at the facility before being sent to an authorised recovery facility. The remaining material which will consist of concrete will then pass through a rental crusher and screener where fines and oversize will be extracted for reuse as fill material. The magnet will remove any surplus metal fraction and this will be sent onto an authorised recovery facility. Clean rubble will remain at the end of the process and this will be sold for reuse as engineering fill. It is intended that a mobile concrete crusher be utilised at the site on a monthly basis for approximately two days per month. This unit (Terex Mobile Jaw Crusher or similar) will be rented and brought to the site when required. Details will be forwarded to the Agency prior to operation of the crusher. Concrete for crushing will be stored outdoors in the area designated for C&D recovery. Crushed and screened concrete will be stored in this areas ending reuse.

(j) Regarding Paragraphs (a) to (g) of section 40 (4) of the Waste Management Act

The information contained within the waste licence application form and its attachments demonstrates that the proposed facility meets the above requirements of the Act.

(k) Emissions from the Site

Air

The recycling building is a fugitive odour emission point. The yard is a fugitive dust emission area. There is also a minor emission from the boiler used to heat the administration offices on site.

Proper management of the site and adhering to facility procedures will serve as successful abatement techniques. Handling of wastes which may lead to odours will be dealt with within the recycling building and recovery of some C&D material which will occur outdoors will be managed in such a manner as not to give rise to fugitive dust emissions.

Dust levels will be kept to a minimum on site as all areas leading into and around the waste recycling building are concreted or proposed to be concreted. Also a good standard of housekeeping around the recycling building and trommel and elsewhere on site will be adhered to.

Site roads and access roads may occasionally get dusty. However, because of the nature of the vehicles entering the site dust accumulation should be negligible. In the event that the roads do get dusty, roads and hardstanding areas will be cleaned regularly using a Rota multi-sweeper with water sprayer. Speed restrictions are in place to prevent dust generation.

Operations at the facility involve the collection of recyclable material and the compaction and transfer of solid waste. No liquids, agricultural or sewage sludges will be accepted at the site.

Waste accepted at the facility will have generally undergone relatively little decomposition and so will have little potential for odour generation.

For the fraction of domestic/municipal waste that is accepted on site which does have odour generation potential, odour is actively controlled at the waste recycling building with odour neutralising spray mist. Residual waste is stored in the recycling building at all times and is removed from site every two days to minimise potential for odour generation.

Noise

During the operation of the material recovery facility, the principal noise sources will include:

- the deliveries of material to the site
- the unloading and loading of waste within the recycling building
- material handling within the processing building
- mobile plant within the building

On-site machinery is specified and maintained to manufacturers' standards. This standard extends to hired-in plant.

Noise from delivery vehicles is mitigated by speed control and also by the presence and continuing development of screening mounds. As the onsite tree planting grows, it too will mitigate noise.

Surface water

All surface water generated on site (with the exception of the roof water from the recycling building) is routed through an oil-water interceptor.

The leachate drainage system in the recycling building will be completely isolated from the surface water drainage network and will be routed to a leachate collection tank.

Sewer

There is no sewer connection therefore no discharge to sewer.

Groundwater

A raised percolation area is located at the northern western corner of the site.

Environmental Nuisances

Environmental nuisances such as bird, flies, dust, litter and fire have the potential to occur if not controlled. A number of mitigation measures have been incorporated into the design and operation of the facility to minimise nuisances. These include:

- All waste vehicles are fully enclosed or covered to prevent any litter entering the environment.
- The access road and hardstanding areas will be fully paved and therefore traffic generated dust will be minimal.
- The majority of waste activities will be conducted indoors, thus will minimise the fugitive dust and odour emissions, litter etc from the facility.

The building will be fitted with fire extinguishers and a fire water supply tank suitably sized will be maintained on site. Any fire water run-off generated will be collected and contained within the recycling building. This will prevent any environmental impacts on the receiving environment due to a fire.

(l) Effects of Emissions

An assessment of the effects of the above listed emissions on the environment has been carried out and it has been concluded that the proposed development will not significantly effects the environment. Further details on emissions can be found in Attachment E and Attachment I of the Waste Licence Application. The facility has been designed to minimise the emission of pollutants and operational procedures will be implemented to reinforce these design features.

(m) Monitoring and Sampling Points

Environmental monitoring is conducted at the facility under the waste permit WP/08/23. In accordance with the waste licence environmental monitoring will be undertaken at the proposed facility for surface water, groundwater, air (dust) and noise emissions. Monitoring points are indicated on drawing CE07-253-01-208 –Monitoring Location Map. Any additional monitoring points will be agreed with the Agency.

All environmental monitoring will be carried out by qualified persons and any laboratory analysis that is required will be carried out by an accredited laboratory. All monitoring will be carried out according to established procedures, approved by the Environmental Protection Agency.

(n) Arrangements for Waste Arising from Activity

Staff employed at the facility will use the existing administration office, canteen and welfare facilities which will result in the generation of small quantities of municipal waste. This waste is recovered onsite at the facility as far as possible and the remaining waste will be incorporated into the waste collected at the site and transported office site for disposal.

Leachate generated within the recycling building will be collected in the leachate collection system and conveyed to an off site waste water treatment plant in agreement with the Agency and Wexford County Council.

(o) Arrangements for Off-Site Treatment or Disposal of Wastes

The bulked up waste/residual waste from the waste transfer station will be transported to an appropriate licensed facility for disposal.

Leachate generated at the facility will be collected in the leachate collection system and conveyed to an off site waste water treatment plant in agreement with the Agency and Wexford County Council.

(p) Unauthorised or Unexpected Emissions

The material delivered to the facility will be inspected and only acceptable waste will be accepted at the facility. Any unsuitable material will be rejected.

Staff will be present onsite at all times during opening hours to supervise and carry out operations and to deal with any emergencies. A CCTV security system will be installed onsite. Key staff will be on-call to respond to any emergency situation outside of normal working hours e.g. night-time, weekends and public holidays.

An emergency response procedure has been prepared and implemented at the facility to prevent accidents and minimise any effects on the environment from accidental emissions or emergency situations. All of these existing procedures will apply to the facility.

(q) Closure and Restoration

It is anticipated that the facility will be operated indefinitely. However if the facility should close for some unforeseen reason all waste and all equipment will be removed from the facility. Waste would be removed to authorised facilities. Equipment will be recycled where possible. The building where waste activities occur would, (if permissible) remain and would likely be used for another purpose.

If a decision is taken to decommission the facility, the Agency will be notified at least six months in advance of the closure and an aftercare management plan will be prepared and submitted to the Agency within this time period.

Activities at the site are unlikely to result in either groundwater or land contamination as the majority of the site will be made up of concrete hardstandings and there is no permanent storage of waste on site. The nature of activities that occur at the site will ensure that no remediation of the site will be necessary in the event of closure of the facility.

(r) Financial Provisions

Murray Waste Recycling Ltd. will meet any financial provision requested by them from the Agency in accordance with the provisions of the waste licence.

(s) European Communities (Control of Major Accident Hazards Involving Dangerous Substances) Regulation 2000

The above Regulations do not apply to the proposed development.

(t) Geological and Hydrogeological Nature of the Lands

With the exception of the onsite foul water treatment system; there will be no direct discharges to groundwater from the facility.

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