



Acorn Recycling

Waste Management for the next generation

Archerstown Industrial Estate,
Thurles,
Co. Tipperary

Administration
Licensing Unit
Office of Climate, Licensing and Resource Use
Environmental Protection Agency, Headquarters
PO Box 3000
Johnstown Castle Estate
County Wexford

26 January 2008

WASTE LICENC APPLICATION - W0249-01

Re: Article 12 compliance requirements

Dear Sir/Madam,

I refer to the information requested in accordance with Article 14(2)(b)(ii) of the regulations, requesting information relating to four areas of interest.

1. The total average rate of energy usage at the facility will be approx. 75kw at any give time (i.e 75,000 joules of energy per second).
On an annual consumption basis this equates to 657,000 kwh per year (75kwh * 8760 hrs/year). The Daily consumption is 1800 kwh.
2. Water abstracted on site for use at the facility will be for the following uses.
 - Steam cleaning of rear of vehicles and vehicle wheels
 - Steam cleaning of waste acceptance area
 - Hand washing facilities, toilets and sinks.The power cleaner will utilise 11 litres per min of operation and will be operated on average 60 - 90 minutes per day. This gives a daily usage of 660 - 990 litres per day. This includes a weekly wash down of the waste acceptance area as required by DAFF guidance. Water usage from toilets and washing facilities will be in the region of 100 litres per day. The daily water usage will therefore be in the region of 760 – 1090 litres per day.
3. One of the main attributes of the proposed facility that will enable it to be economically viable is the ability of the facility to be flexible in terms of the varying types of wastes that it accepts. This includes, for example, once off deliveries of e.g. food production waste as well as ongoing contract waste streams. Another example that is particularly important at this time arises from the uncertainty with regard the type treatment procedure that will commonly be employed for the diversion of biological municipal waste (BMW) from landfill in Ireland.

There are two main options by which this waste can be diverted from landfill;

- A. The waste is segregated at source and collected as a separate waste stream in 'brown bins'. This waste can then be composted to create high quantity compost that can be managed without

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Managing Director: Rónán Beasley. Acorn Recycling is a member of the Arlo Group.

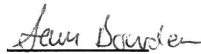
restriction as a valuable product with many uses. From an environmental perspective this is the most favourable method although there are significant logistic and economic challenges. Acorn sees this as the most beneficial option for the management of BMW.

- B. The biological fraction of municipal waste can be extracted using a system of mechanical treatments. The fine material that results is high in biodegradable matter and suitable for biological treatment. The product from this is biologically stable but must continue to be managed as a waste because of the levels of contaminants. Outlets for this product include use for landfill cover and capping, brownfield site remediation, and mine tailings remediation. All outlets for the use of this material will need to be approved by the EPA.

Because of this uncertainty it is vital that the proposed facility be in a position to service both of these biological treatment procedures. It is most likely that both source segregation and MBT procedures will run in parallel within different local authority areas. It is envisaged however that no more than 25,000 t capacity of the facility would be used for this material as there will continue to be a need for the composting of clean biological wastes such as food industry and sewage sludges even if MBT becomes the favoured procedure for the diversion of biodegradable waste from landfill.

The environmental impacts on the surrounding environs of treating MBT 'organic fines' material in this way are no different to the composting of 'clean' biological wastes.

4. The EIS stated that the 'Nearest residents live further than 250 meters away'. The exact distance from the edge of the composting facility and the nearest dwelling is 303 meters (0.303 km). Please see revised site layout drawing WL-02 REV C attached showing distance lines.



Sam Bowden
Environmental Scientist
Acorn Recycling

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