

# NOISE MANAGEMENT PLAN

FOR Glamorgan Recycling Limited

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## **1.0 INTRODUCTION**

The site currently receives wood wastes for storage and handling and is Licensed to take in up to 10,000 tonnes per annum of source segregated, civic amenity and commercial wood wastes to produce a biomass product, as well as source segregated metals / glass / plasterboard.

### **1.1 Site Description**

Glamorgan Recycling Limited is a working waste handling facility and the site is a permitted wood facility for the handling of wood waste. The facility is situated just East of Barry town centre and north west of No. 2 Docks at Berth 31. Wood waste processing will be carried out on an area of the existing site and all operations will be carried out on impermeable hard standing.

It is anticipated that the total amount of wood waste grade B and C and oversize material to be handled will not exceed 75,000 tonnes per annum. The storage requirements for this material will be 4,000 tonnes to provide sufficient buffer during the winter periods when the demand for supply is expected to increase.

### **1.2 Aims**

The Noise Management Plan is a working document with the specific aim of ensuring that:

- a) Noise impact is considered as part of routine inspections.
- b) Noise is primarily controlled at source by good operational practices.
- c) All appropriate measures are taken to prevent or, where that is not reasonably practicable, to reduce noise emissions from the facility at nearby receptors.
- d) Investigate incidents of unusual noise emissions, impacts of complaints and implement measures to prevent further occurrences and
- e) Inform continuing improvements to noise control and site management at the facility and update the Noise Management Plan detailing such improvements.

## **2.0 NOISE CONTROL MEASURES and MANAGEMENT**

The following section outlines the control measures that will be undertaken on site to mitigate noise emissions from the identified sources of generation.

### **2.1 Noise Generating Activities**

Sources of noise generated at the site are limited to the following activities:

- Vehicle movements in/out of the site
- Tipping operations
- Handling and movement of stockpiles
- Processing – Screening, Shredding, bulking up

### **2.2 Means of Prevention**

As not all of the sources of noise mentioned above are continuous, the sources of noise will vary throughout the day. In order to minimise potential generation of noise from the site, the following preventative control measures using best practicable means, shall be implemented by the site manager.

#### **2.2.1 Vehicle Movements In/Out of Site**

- A) Noise from onsite vehicle movements will occur 6 days a week when the biomass plant is up to full capacity. Noise will be intermittent and generated by vehicle movements both to the site and within the site for unloading, loading, mobile plant movements and site activities.
- B) A site speed limit of 10mph will be enforced for all vehicles to minimise the potential generation of noise emitted.

#### **2.2.2 Tipping Operations**

- E) All material handled on site shall be done so in a controlled manner, with consideration given to the potential for noise generation at all times.
- F) Tipping heights will be minimised to avoid uncontrolled noise emissions.

### **2.2.3 Site Management**

- G) Plant Engines will be switched off when not in continuous use
- H) Plant will be maintained/serviced and use appropriate fuel and lubricants
- I) Plant used on site will be fully silenced to the manufacturer's specification including muffled exhaust systems and acoustic panels to engine compartments.
- J) The implementation of the mitigation measures as a part of the site operations, indicates the noise levels likely to be generated by the site will not have an adverse impact to affect adjacent properties.
- K) The site manager or site supervisor shall ensure that a visual inspection of the activities is carried out at regular intervals during operational hours to assess the extent of noise being generated. In circumstances where inspection identifies a significant noise source, the site manager / site supervisor shall adopt appropriate measures to prevent or minimise the noise being generated.
- L) On site noise monitoring of plant will be carried out once a year (when fully operation) using a hand-held noise meter by a competent person.

In the event that noise nuisance is caused to a nearby receptor and a complaint is received by the site management, the 'Noise Action Plan' will be implemented.

## **3.0 NOISE ACTION PLAN**

If an activity at the site results in unacceptable levels of noise being generated, then that activity shall be closely monitored until sufficient measures using best practicable means are adopted which prevent or minimises the noise nuisance. The implementation of such measures will be the responsibility of the site manager.

The designated competent person will be responsible for monitoring noise levels associated with the conditions and activities identified above. The site manager shall implement adequate measures to control noise from any activity which causes noise nuisance.

### **3.1 Noise Monitoring**

Upon receipt of a noise complaint the site manager shall be immediately notified. The site manager will record the details of the complaint on a Noise Complaints Form (see Annex A). This will trigger a levelled response;

- Level 1 – identify the source(s) / cause(s) of the excess noise, through investigative measurements off and on-site
- Level 2 – Identify measures to reduce the identified source
- Level 3 – Implement noise control measures
- Level 4 – Re-test at off-site monitoring location(s)

#### **3.1.1 Review of Techniques**

In circumstances where the complaint is related to a previous period of working, the site manager shall meet with the Senior Manager, Health Safety and Environment Manager and site staff to establish the activities carried out during the previous working period. The activity identified as the potential noise source will then be monitored by the site manager. The manager will ensure that a review of noise measures is carried out for any activity suspected of causing a noise complaint.

Where the site walkover by the site manager is able to identify the noise nuisance which caused complaint, appropriate measures are to be adopted to reduce the level of noise. The details of the noise source and the control measures adopted shall be recorded on the Noise Complaints Form.

#### **3.1.2 Monitoring Points**

If the noise source that led to a complaint cannot be established the site manager will arrange for a noise monitoring to be undertaken.

The noise monitoring will be conducted in the working period and personnel conducting the monitoring will remain with the measuring instrumentation in order to note the sounds detected at the time, their origin and any significant extraneous noise as necessary.

The measuring instrument is a handheld YFE YF-20 with High / Low value levels.

With the sound meter operating, the overall (ambient)  $L_{Aeq}$  sound level will be sampled for intervals of 5 minutes for 30 minutes' duration. This will be recorded on the off-site monitoring sheet JMRF54 (Appendix B).

Details of noise control and mitigation measures will be reported by the site manager. The nature of the complaint, the findings of any investigation, and mitigation measures adopted, will be recorded on the Noise Complaint Form, and then signed by the site manager.

#### **4.0 CONCLUSION**

The operations on site should be a minimal issue with regards to noise as control measures will be used.

If the control measures stated are implemented at the site, it is considered that noise generation should be kept to a minimum and that nuisance to nearby receptors should be avoided in normal circumstances.

In the event that noise nuisance is caused to a nearby and a complaint is received regarding noise migrating from the site, the noise action plan shall be implemented. This may require a period of monitoring to be implemented to inform operations and establish noise levels with targets for improvements.



## APPENDIX A – NOISE COMPLAINTS FORM

NOISE COMPLAINTS FORM		
<b>Complaint Received From:</b>	<b>Date of Event</b>	
<div style="text-align: center; padding: 5px;"><b>Time of Event</b></div> <div style="text-align: center; padding: 5px;"><b>Direction from Site</b></div>		
<b>Investigation</b>		
<b>Wind Direction During Event</b>	<b>Complaint Substantiated</b>	
	YES	NO
<b>Activities at Time of Event</b>	<b>Excessive Noise Identified</b>	
	YES	NO
<b>Actions/Mitigation Measures</b>		
<b>Measures Implemented Date</b>		
<b>Feedback to Complainant (Date)</b>		
<b>Investigation Complete (Date)</b>		
<b>Review</b>		
<b>Signed Off</b>  <b>(Site Manager)</b>		

## APPENDIX B – NOISE MONITORING FORM

Jack Moody LCE Ltd

### ENVIRONMENTAL MONITORING DATA RECORDING SHEETS

#### JMRF 54 Off Site Noise Monitoring Record Sheet

Monitoring Location									
Date of Monitoring									
Measurement Start Time									
Weather Conditions	Fine / Sunny / Cloudy / Rainy								
Wind Direction	All the time/ Light/ Gusting								
Noise Meter Model/Identification	YF-20								
Calibration After Measurement (dB(A))	70 Db								
Measurement Time	1-15	2-15	3-15	4-15					
Measurement Result Lo dBA									
Measurement Result Hi Dba									
Major Noise Source(s) During Monitoring									
Other Noise Source(s) During Monitoring									
Remarks									
Operations on Site									