

**DAY GROUP  
IBA (INCINERATOR BOTTOM ASH)  
AND  
HBM (HYDRAULICALLY BOUND MATERIAL) FACILITY  
AT  
OGEE BUSINESS PARK  
WELLINGBOROUGH  
NORTHAMPTONSHIRE**

**NOISE MANAGEMENT PLAN  
TO SUPPORT AN ENVIRONMENT AGENCY PERMIT APPLICATION**

Noise Management Plan  
to  
Control and Monitor the Impact of Noise  
from the Operation of an  
IBA (Incinerator Bottom Ash) and HBM (Hydraulically Bound Materials) Facility  
at  
Ogee Business Park  
Wellingborough  
Northamptonshire

**Plan submitted to:-**

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## **1. INTRODUCTION**

- 1.1 This Noise Management Plan (NMP) has been prepared for the proposed Incinerator Bottom Ash (IBA) processing plant and of a Hydraulically Bound Mixtures (HBM) plant at Ogee Business Park, off Finedon Road, Wellingborough.
- 1.2 The main objective of the operator in respect of noise generated by site operations at the facility is to ensure that the environmental impact of noise is minimised and controlled in accordance with company environmental and community policies (see appendices). This Noise Management Plan proposes the procedure to be adopted and outlines the measures to be taken in order to identify, control and monitor the environmental noise impacts from the site.
- 1.3 This Plan is provided as a supplement to the full environmental noise impact assessment which has been undertaken with regard to the assessment methods outlined in BS4142: 2014 and considering the requirements of current guidance on Environmental Permitting.
- 1.4 The nearest residential receptors to the facility which were considered in the noise impact assessment are Farm Cottage and Romadale, both are isolated properties on The Slips to the north of the site. Farm Cottage is the nearest dwelling to the site at a distance of at least 460 metres from the northern boundary of the site. Consequently, the impacts of noise from the operations associated with the facility will be mitigated by separation distance and the proposed structures on site.
- 1.5 The Plan proposes two way communication procedures to be established between the operator and the Environment Agency. This will enable the Plan to be regularly reviewed and any concerns of the local community to be addressed.
- 1.6 Monitoring procedures are all in accordance with current Central Government guidance and British Standards.
- 1.7 The Plan shall be reviewed as required.

## **2. ENVIRONMENTAL NOISE**

### **2.1 Background information & Normal Environment Agency Condition on Noise**

2.1.1 The Environment Agency's normal permit condition on noise is:-

*“Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorized officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimize the noise and vibration.*

*The operator shall:*

- a) If notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimizes the risks of pollution from noise and vibration;*
- b) Implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.”*

2.1.2 The Environment Agency do not define ‘pollution’ in their literature, but the noise impact assessment indicated that calculated site noise levels at the nearest dwelling, Farm Cottage would be 3 dB(A) below the representative daytime (07:00 to 23:00 hours) background sound level of 40 dB  $L_{A90,T}$  and equal to the representative night-time (23:00 to 07:00 hours) background sound level of 37 dB  $L_{A90,T}$ .

2.1.3 In the event that access cannot be obtained to undertake noise monitoring at the selected locations, measurements will be carried out at either another representative position or at a suitable location on the site boundary. Calculations will then be made in accordance with BS5228-1: 2009 + A1: 2014 ‘Code of practice for noise and vibration control on construction and open sites – Part 1: Noise’, to demonstrate compliance with the proposed permissible levels. Corrections will be made for any afforded topographical, ground / air absorption effects or barrier attenuation.

## 2.2 Monitoring procedures

- 2.2.1 It is suggested that attended sample noise monitoring takes place within three months of commissioning, then after six months from commissioning, during permitted daytime and night-time periods at the nearest residences to the site, namely Farm Cottage and Romadale (as shown on the plan in Appendix 1).
- 2.2.2 It is expected that once the IBA/HBM Facility is commissioned and running fully that the overall noise output levels would not vary to any significant degree over time. The noise level due to operation of the facility would depend on a number of factors such as the particular assessment location, weather conditions for example wind direction, what activities are taking place.
- 2.2.3 Additionally site staff will note in the site diary abnormal noise from other nearby noise sources to assist in determination of source if complaints are received..
- 2.2.4 The instrumentation used to monitor the noise levels will meet the Class 1 standard specified in BS EN 61672: Part 1 2013.
- 2.2.5 The monitoring will be undertaken with reference to the methods and procedures provided specifically in clauses 5.1, 6.2 and 6.4 of BS 4142: 2014 + A1: 2019, *'methods for rating and assessing industrial and commercial sound'* (British Standards Institution 31.10.14) and BS5228-1: 2009 + A1: 2014 Annex G, at times when it is known that the site is fully operational. In summary, measurements will be made in accordance with the procedure below:-
- the instrumentation will be calibrated on site both before and after use in accordance with the manufacturer instructions using a UKAS certified acoustic calibrator;
  - measurement height between 1.2 to 1.5 metres above the ground;
  - instrument setting - fast time response and A weighted;

- 15 minute measurement periods; and
- recorded measurement parameters -  $L_{A10}$ ,  $L_{A90}$  and  $L_{Aeq}$ ;

2.2.6 Monitoring will not be undertaken if it is considered that the prevailing weather conditions could detrimentally affect the measurements either by generating extraneous noise or by influencing sound propagation. Such weather includes wind speeds which are greater than  $5\text{ms}^{-1}$ , low ambient temperatures or rain.

2.2.7 So far as is reasonably practicable, monitoring shall be undertaken to ensure that the all site operations are representatively assessed and in the event of steady noise conditions a minimum fifteen minute measurement period shall be adopted at each agreed location. This will include both manned and unmanned measurements being carried out.

2.2.8 Within six weeks of each monitoring exercise site management will ensure that a report is prepared detailing the monitoring results. The report shall include the following information:-

- the aims of the assessment;
- monitoring locations and measurement position;
- influencing factors upon the noise environment;
- monitoring procedures including any deviation from the procedures detailed in this Plan;
- meteorological conditions including weather, wind speed/direction, cloud cover and ambient temperature;
- monitoring instrumentation used;
- measurement duration;
- site activities taking place during the measurement periods;
- measurement results; and
- discussion of results.

2.2.9 All relevant records pertaining to the measurement and recording of noise will be retained by site management for a period of three years and will be available for inspection by authorised officers of the Environment Agency.

2.2.10 The operator shall supply copies of the noise monitoring report to the Environment Agency, if requested.

### **2.3 Suppression measures**

2.3.1 The operator shall ensure that static and mobile plant is suitably noise attenuated and maintained. Checks of mobile plant, including inspection of the vehicles transmission, exhaust and hydraulic systems, will be carried out as part of the site's planned preventative maintenance programme.

2.3.2 If site conditions dictate that ancillary diesel driven equipment be employed eg. additional mobile plant, water pumps etc. the equipment will be suitably silenced to ensure that noise generated by such equipment does not give rise to an increase above the agreed permissible noise levels.

### **2.4 Procedure to be followed in the event of the noise levels exceeding acceptable levels.**

2.5.1 Following the undertaking of any noise measurement surveys, in the event that the proposed noise levels associated with the Permitted activity exceed acceptable levels, the operator will inform the Environment Agency within 5 working days of the occurrence and of any mitigating measures taken to reduce the impact.



### **3. DETAILS RELATING TO THE NOISE MANAGEMENT PLAN**

#### **3.1 Operating Hours**

3.1.1 The facility will be operated in accordance with the hours noted in the planning permission, if conditioned.

#### **3.2 Vehicle Movements and Reversing Alarms**

3.2.1 The imposition of a speed limit on site will have the effect of minimizing noise from vehicle movements and is a key feature for the safety of all facility staff. Company vehicle drivers will be obliged to comply with the site speed limit as part of the terms of their employment and all facility staff will be instructed to report any observed speeding offence. Any non-company vehicle driver that repeats a speeding offence will be refused access to the site.

3.2.2 Upon entering the site, at the weighbridge, drivers will be supplied with a map clearly showing the vehicle routes which minimise the need for reversing alarms. The weighbridge operator and other facility staff will be instructed to report non-observance. Any non-company vehicle driver that does not follow the vehicle routes will be refused access to the site.

3.2.3 For mobile plant and all of the Permit Holder's road going vehicles on site white noise reversing alarms will be specified, rather than standard reversing beepers. Additionally white noise alarms will be requested on any hired plant or vehicles.

#### **3.3 Summary of Measures to Minimise Normal Operational Noise**

3.3.1 In summary, measures to minimise material handling, processing and vehicle noise include:-

- Plant orientation designed such that as far as reasonably practicable vehicle movements and loading in the IBA/HBM storage area is as far away as possible from the dwelling at Farm Cottage and Romadale on The Slips;
- Enclosure of IBA/HBM material handling and processing;
- Utilisation of the latest wheeled loading shovels and excavators operated by Vocational Qualification trained staff with maintenance functions performed by supplier engineers;
- Installation of white noise reversing indicators on trucks and wheeled loading shovels; and
- Training for operators with reference to revving of engines and generation of unnecessary noise, i.e. use of horns.

### **3.4 Abnormal Operating Scenarios**

- 3.4.1 By definition an abnormal situation is one that deviates from the usual or typical and therefore an abnormal operating scenario would be apparent to the site manager.
- 3.4.2 Abnormal scenarios that may give rise peak noise levels during operation of the plant are listed below with a description of actions and timescales to minimise the potential noise emissions. Consumables will be kept in stock on site so that any necessary repair work can be carried out without undue delay.

#### **4. COMPLAINTS PROCEDURE**

- 4.1 If noise complaints regarding the site are received by The operator and/or the Environment Agency, following full commissioning of the facility, for periods when the facility was handling or processing material at the time of the noise complaint, then the following actions would take place:
- 4.2 If received directly by the operator for current operations, the site manager or nominated representative would listen at a point on publicly accessible land in the vicinity of the nearest dwellings to the site for 15 minutes, within 4 working hours of receiving the noise complaint.
- 4.3 The site manager or nominated representative would complete a noise complaint report form (an example form is included in Appendix 2 at the end of this Noise Management Plan).
- 4.4 If the noise complaint was made to the Environment Agency, the actions taken by the operator are dependent on when the noise complaint is made known to them and what information is made available by the Environment Agency.
- 4.5 If it can be determined that the site noise is clearly audible and the complaint is deemed by the operator to be substantiated, then any specific action taken to rectify or address the situation will be recorded in writing and advised to the complainant if they have asked to be updated, within 5 working days of receiving the noise complaint.
- 4.6 If no noise monitoring has taken place within 3 months prior to the time of the noise complaint, then noise monitoring shall take place within two weeks of the complaint as detailed above, subject to suitable weather for the noise monitoring. If practicable, and by agreement with the complainant in the timescale indicated, the monitoring shall take place at the complainant's property. Otherwise, the noise monitoring shall take place at one of the two suggested noise monitoring locations.

- 4.7 In the event that the acceptable levels are exceeded, the operator will inform the Environment Agency of the occurrence and of any mitigating measures taken to reduce the impact..
- 4.8 All complaints received by the operator concerning any of the environmental noise impacts detailed in the noise management Plan will be recorded in the site complaint log, which will be available for inspection by authorised officers of the Environment Agency upon request.

## **APPENDICES**

## Appendix 1

### Noise Monitoring Locations

Suggested noise monitoring locations

Pos 1          Farm Cottage

Pos 2          Romadale



**Appendix 2**  
**Example of Noise Complaint Report Form**

<b>Noise complaint report form</b>	Date:	Ref. No.
Name and address of complainant		
Tel no. of complainant		
Time and date of complaint		
Date, time and duration of offending noise		
Weather conditions (e.g., dry, rain, fog, snow)		
Wind strength and direction (e.g., light, steady, strong, gusting)		
Complainant's description of noise (e.g., hiss, hum, rumble, continuous, intermittent)		
Has complainant any other comments about the offending noise?		
Any other previous known complaints relating to installation (all aspects, not just noise)		
Any other relevant information		
Potential noise sources that could give rise to the complaint		
Operating conditions at the time offending noise occurred (e.g., flow rate, pressure at inlet and pressure at outlet)		
Action taken:		
Final outcome:		
Form completed by		Signed