NOISE & VIBRATION MANAGEMENT PLAN

Shaw Lane, Carlton, Barnsley, S71 3HJ

ASH Waste Services

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1 Introduction

1.1 Site background

1.1.1 Oaktree Environmental have been commissioned by ASH Waste Services to undertake an Noise & Vibration Management Plan for a site at Shaw Lane, Carlton, Barnsley, S71 3HJ.

1.1.2 This report is to be submitted in support of an application for a bespoke environmental permit.

1.1.3 This NVMP will therefore assess further risks arising from the section above and allow ASH Waste Services to provide mitigation measures. The measures outlined in this NVMP will be put in place by site management of ASH Waste Services to ensure noise and vibration is adequately controlled to ensure the receptors listed in Section 2.2 below are not affected by the above proposals.

1.2 Site location

1.2.1 The site is located at Shaw Lane, Carlton, Barnsley, S71 3HJ. Surrounding land uses comprise industrial, agricultural, and residential properties.

1.2.2 To the north and east comprise industrial and commercial land uses including scrap yards. To the south and west are open undeveloped land.

1.2.3 The nearest noise sensitive receptors comprise a residential dwelling off Shaw Lane, approximately 190m northeast and 275m west of the site.

1.3 Facility overview

1.3.1 This NVMP accompanies a Noise Impact Assessment (NIA) which has been produced by Oaktree Environmental. Recommendations from the NIA have been incorporated into this NVMP.

1.3.2 The site will operate a bespoke permit to accept, store and treat household, industrial and commercial (HIC) and Construction & Excavation (CDE) wastes.

1.3.3 The site operations include the removal of wastes from bins, skips and RCVs within the waste reception area located within the main building. The waste will then be initially sorted via a loader/excavator. Separated factions will be loaded into a HGV for removal from the site.

1.3.4 Additionally, a shredder may be sited within the building.

1.4 Hours of operation

1.4.1 The site will be open during the following hours for the delivery, receipt and processing of waste:

Monday to Friday	06.00 – 18.00
Saturday	Closed
Sundays, Bank/Public holidays	Closed

1.4.2 On rare occasions it may be required to operate on a Saturday, however this is likely to be very infrequent and to a much lower intensity than would be the case on a weekday. In addition, the site may be open public holidays (except Christmas and New Year), dependent on demand.

2 Sensitive Receptors

2.1 Sites receptors

2.1.1 Sensitive receptors located within 500m of the site boundary are detailed in the table below including approximate distances. Receptors which are over 500m are not included as it is considered that it is unlikely that they will be impacted by emissions arising from the site.

2.1.2 The primary receptors are considered to be the residential dwellings off Shaw Lane to the east and west.

Table 2.1 – Distances to Selected, Representative Sensitive Locations

Boundary	***Receptor***	**Approximate distance from boundary of site (m)**
North	Industrial properties off Boulders Bridge Lane and around the industrial site.	0- 500
Northeast	Residential properties on Shaw Lane.	200-250
West	Residential properties off a private road on Shaw Lane.	323-372
Northwest	Other industrial property.	60-150

2.2 Other noise sources

2.2.1 Other industrial / commercial land uses which will contribute to the background noise level are tabulated below in Table 1.4 below.

Table 2.2 – Other Noise Emitting Operators

Company	**Address**	**Type of Business**	**Approximate distance & location from site boundary (m)**
Carlton Car Breakers	Shaw Lane	Car breaker	20 / north
Milton Goughs	Shaw Lane	Car breaker	60 / southwest
W Conway & Sons	Shaw Lane	Car breaker	130 / southwest
Meynell Holdings	Shaw Lane	Concrete product supplier	50 / north
L Motor Spares	Shaw Lane / Boulder Bridge Lane	Car breaker	60 / northwest

Company	Address	Type of Business	Approximate distance & location from site boundary (m)
Alan Hardwick	Shaw Lane / Boulder Bridge Lane	Truck Dealer	80 / northwest
P.V.S Barnsley	Shaw Lane / Boulder Bridge Lane	Salvage Dealer	200 / north
Welbourne's Car Dismantler	Shaw Lane / Boulder Bridge Lane	Car Breaker	200 / north
Trevor Wigley & Sons	Shaw Lane / Boulder Bridge Lane	Car Breaker	250 / north
Sims Metal Barnsley	Shaw Lane / Boulder Bridge Lane	Scrap Metal Dealer	300 / north
Geoff Ripley & Sons Ltd	Shaw Lane /Boulder Bridge Lane	Bus and coach company	400 / north
CK Beckett	Shaw Lane / Boulder Bridge Lane	Scrap Yard	500 / northwest
Motorbing Car Parts	Shaw Lane / Boulder Bridge Lane	Car Breaker	500 / northeast
Heeley Skips	Shaw Lane	Waste management service	250 / west

2.2.2 Other noise sources contributing to the existing noise climate include birdsong, movements associated with local residents and courier deliveries and noise generated by other vehicle movements on the A road (Shaw Lane) to the north and other nearby road networks, distant industrial noise surrounding the site including audible crashes and bangs originating of the scrap metal recycling yards.

2.2.3 Road traffic within the vicinity of the site were observed to comprise a mixture of; HGVs, LGVs, agricultural vehicles and smaller private vehicles.

3 Site Operations

3.1 Waste deliveries

3.1.1 Waste is delivered and removed from the site via the existing access to the east of the site. Upon arrival, an operative will direct the driver to the weighbridge, whereby the contents of the vehicle and waste transfer/consignment note are inspected.

3.1.2 Deliveries/removals from the site primarily consisting of ASH Waste Services own vehicles/contracts, however there may be additional third party vehicles.

3.2 Site Processes

3.2.1 Once a load has been accepted by the operator the contents of the delivery vehicles will be discharged the material into the 'tipping area' inside the transfer building "in the case of mixed waste, or externally for source-segregated recyclables where it will be subject to the following procedures:

a) Following initial tipping, the waste is inspected in line with WM3 for signs of any contamination.
b) Once the waste is deemed suitable, the bulkier items of waste be removed using the mechanical loader/excavator.
c) Additional recyclable materials will be removed by either the excavator or by hand and taken to the relevant onsite bay.
d) Other items which can be sorted by hand or plant will be taken to one of the overflow storage bays at the site.
e) The remaining waste moved where it is bulked prior to being loaded for removal from the site.

3.3 Plant and equipment

3.3.1 Plant and material onsite will only be used by competent operators.

3.3.2 All plant on site is subject to appropriate manufacturer maintenance to ensure proper working order in the form of service contracts.

3.3.3 Site management will undertake or delegate additional preventative maintenance checks on a more frequent basis i.e. daily, before, during and 1 hour at the end of each working day checking for:

- Plant and machinery are mechanically sound for use and no presence of black fumes or trailing liquids visible prior to use or following shutoff of plant/equipment.
- Mobile plant will be stored at least 6m form any stored combustible wastes on site or other potentially flammable materials (e.g., any fuel tanks onsite) following the cessation of daily waste management activities.
- In the building, all plant will be powered down and completely shut off prior to cessation of operations on any given day.
- Plant which is not in use for any extended period is stored at least 6 metres from combustible or flammable material.

3.3.4 In addition to the above, fleet lorries are brake checked every 6 weeks along with routine serving as per compliance with the Traffic Commissioner.

4 Noise Management and Controls

4.1 Noise Sensitive Receptors

4.1.1 The site lies within a mixture industrial setting with the nearest noise sensitive residential receptors located 190m and 275m north and northeast of the site. The layout of the site has been planned in order to contain all the required operations and activities within the site, thus limiting the impacts from noise on the above receptors.

4.1.2 In terms of potential noise impact, whilst the development proposed will be operated using the Best Practicable Means at all times, this site-specific NVMP has been prepared in order to ensure the noise levels at the site can be managed appropriately and reduce any impact on the surrounding receptors.

4.2 Noise Sources

4.2.1 The main sources of noise which could arise from the site operations are as follows:

a) Skip lorries/HGVs travelling to and from the site for delivery / collection of vehicle waste in loose and skip form,
b) Tipping and loading of waste into tipping areas, storage bays at the site including their loading and unloading,
c) Loading of waste into the shredder,
d) Use of plant and equipment for bailing,
e) Loading of waste into containers for storage on site and into articulated vehicles for removal off site,
f) Manoeuvring of mobile plant around external areas of the site,
g) Small vehicles travelling to and from the site (e.g. staff and visitor's cars, courier van deliveries etc.),
h) Repairs

4.3 Noise Management Table

4.3.1 A site-specific NVMP table overleaf details the above noise sources and how the current and proposed infrastructure on site will reduce the impact of noise to surrounding properties.

4.3.2 In addition to the existing controls in this NVMP, the complaints procedure further discussed in section 5 will be used in the event that any noise complaints are received. If a noise complaint is received and the applicant has been made aware, immediate action will take place reviewing and identifying whether any changes to existing procedures are required or if new procedures need to be put in place. Any changes which may be required will be implemented immediately.

Source(s)	Receptor(s)	Consequence	Magnitude of noise source	Characteristic of noise source	Probability of noise disturbance	Remedial Action / Recommendations / Comments	Assessment Outcome following actions / recommendations
Skip lorries/HGVs travelling to and from the site for delivery / collection of vehicle waste in loose and skip form	See Section 2	Noise pollution	Medium	Continuous (Low Pitch)	Medium	Engines will be switched off when the vehicles are not being used. Waste deliveries and collections will only be permitted during the hours of 06:00 – 18:00 Monday – Friday and no works on Saturdays and Sundays. These hours are considered 'normal' working operational hours in an area dominated by industry. On rare occasions it may be required to operate on a Saturday, however this is likely to be very infrequent and to a much lower intensity than would be the case on a weekday. The existing access road to the operational area site will be maintained in good state of repair to prevent unnecessary noise being generated. All skip lorries operated by ASH Waste Services be fitted with chain socks in order to reduce the noise produced by the loose chains banging on the side of the skip. Implementation of a 5mph speed limit onsite. Drivers must lower the tipper body before driving away from the tipping area. All drivers are required to enter and exit the site with due consideration for neighbours. Drop heights will be a maximum 1m from the ground to allow for clearance of the relevant vehicle. Management will ensure that all vehicles involved in the tipping of waste operated by ASH Waste Services are functioning suitable i.e. vehicles must be well maintained and operated with silencers and moving parts to be regularly lubricated. All mobile plant and other vehicles used will benefit from white noise reverse alarms. A no idling policy will be in place and staff/third party drivers will be told not to rev engines.	Low due to background noise levels being high

Source(s)	Receptor(s)	Consequence	Magnitude of noise source	Characteristic of noise source	Probability of noise disturbance	Remedial Action / Recommendations / Comments	Assessment Outcome following actions / recommendations
Tipping and loading of waste into tipping areas, storage bays at the site including their loading and unloading	See Section 2	Noise pollution	Medium	Impulsive bangs/crashes	High	Refer to the above actions shown in A and additional actions/proposals are shown below. This activity will take place approximately 190m from the nearest residential receptors and will be done so inside a secure bay or inside a transfer building. When necessary, the roller shutter doors will be closed as much as possible with operations inside the building.	Low due to background noises being high
Loading of waste into shredder	See Section 2	Noise pollution	Medium	Continuous (Low Pitch)	High	Additional actions/proposals to those mentioned previously are shown below. The shredder is likely to operate between 2-3 hours a day, dependent on demand. Where possible, site management will ensure the shredder is operated between 10:00-14:00 in order to ensure minimal disturbance to local receptors. Except for abnormal conditions, the loading of waste into the shredder is done using a 360^0 grab/crane as opposed to a loading shovel meaning the material can be inserted into the plant with minimal drop height to prevent any crashing, banging or vibration. It is proposed to operate this machinery between the hours of 06:00 – 18:00 Monday – Friday only which are not considered unsociable hours. Management will ensure that all loading plant operated by ASH Waste Services is functioning suitably i.e. moving parts to be regularly lubricated. Operatives will be informed to turn off engines of the mobile plant when it is not in use and no revving of engines will be permitted at the site. Any malfunctions in plant i.e. missing screws/bolts which result in excessive noise will be de-commissioned until an alternative loading plant sourced or repairs made.	Low

Source(s)	Receptor(s)	Consequence	Magnitude of noise source	Characteristic of noise source	Probability of noise disturbance	Remedial Action / Recommendations / Comments	Assessment Outcome following actions / recommendations
Loading of waste into containers for storage on site and into articulated vehicles for removal off site	See Section 2	Noise pollution	Medium	Impulsive bangs/crashes associated with falling material	High	Additional actions/proposals to those mentioned previously are shown below. The plant grabs can go inside the containers and site management have instructed the grab operators to load the containers by placing the material in them rather than dropping it where possible. Site management also closely monitoring the staff loading the material continuously (in addition to the daily monitoring) to make sure that the revised loading operations are carried out. Management will ensure that all loading plant operated by ASH Waste Services is functioning suitably i.e. moving parts to be regularly lubricated. Operatives will be informed to turn off engines when the plant is not in use and no revving of engines will be permitted at the site. Any malfunctions in loading plant i.e. missing screws/bolts which result in excessive noise will be de-commissioned until an alternative loading plant sourced.	Low
Manoeuvring of mobile plant around external areas of the site	See Section 2	Noise pollution	Low	Intermittent (Low Pitch)	Med	Additional actions/proposals to those mentioned previously are shown below. Management will ensure that all site vehicles operated by ASH Waste Services are functioning suitable i.e. vehicles must be well maintained and operated with silencers and moving parts to be regularly lubricated. All manoeuvring areas using mobile plant are surfaced with impermeable concrete which is generally flat and well maintained to prevent unnecessary banging of vehicles on uneven ground leading to excessive vibration.	Low
Small vehicles travelling to and from the site (e.g. staff and visitor's cars, courier van deliveries etc.)	See Section 2	Noise pollution	Low – Very Low	Intermittent (Low Pitch)	Low	All those working on and visiting the site to be made aware of need for considerate driving and keeping vehicles well maintained. Small vehicles are not considered to be an issue in relation to excessive noise which could cause a complaint. Implementation of a 5mph speed limit onsite. All drivers are required to enter and exit the site with due consideration for neighbours.	Very Low / Negligible

Source(s)	Receptor(s)	Consequence	Magnitude of noise source	Characteristic of noise source	Probability of noise disturbance	Remedial Action / Recommendations / Comments	Assessment Outcome following actions / recommendations
Repairs	See Section 2	Noise pollution	Very Low	Variable dependent on the nature of work being undertaken	Low	If repairs to the site are required, the work is to be undertaken with due regard for the possible noise nuisance unless it is not possible to do so. In the event of major repair work being undertaken which is likely to cause significant noise and disruption, neighbouring residents and the Environment Agency will be notified in advance.	Very Low / Negligible

4.4 Monitoring

4.4.1 It is proposed that any offsite monitoring would primarily comprise the subjective onsite observations by site management. Given that the noise assessment has determined that proposed noise levels associated with the proposed operations are unlikely to significantly exceed the background level it is difficult to justify the requirement to undertake routine pro-active offsite monitoring.

4.4.2 The background measurements taken indicated, the main contributor to background noise levels comprised of constant road traffic from Shaw Lane to the north. Additional contributors also include birdsong, movements associated with local residents and noise arising from the industrial noise to the north and south.

4.4.3 To have any certainty in evaluating the true noise level as a result of the operations at the receptor measurements would have to be made during time of inactivity at neighbouring sites. This would introduce a great level of difficulty and eradicates the opportunity to arrange for a routine, weekly time for noise monitoring.

4.4.4 It would seem reasonable to propose that noise levels are subjectively monitored by site management. Site management will be able to monitor noise levels throughout the day whilst onsite and would notice a rise in noise levels because of plant failure, staff negligence, incompatible loads or other extenuating circumstances. If site management identify these issues, the operator can then take steps to remedy the situation (i.e. cease the activity if needed). Should a noise a complaint be received, site management would review the nature of the complaint, and should it be deemed necessary (i.e. numerous complaints relating to a particular item of plant) then an investigation may be commenced and advice sought from a professional acoustician.

4.5 Recording

4.5.1 Site management will record complaints in the site diary or complaints report from in Appendix I.

4.5.2 Site management will be required to make a note of any unavoidable events such as plant failure, in the site diary, rather than just actual complaints received. This will ensure that if complaints are received retrospectively from either the EA or directly, any circumstances which led to that complaint as a result of elements outside of the operator's control would be able to be attributed (or, at least, in part) to the cause of the complaint. Where all appropriate measures fail to prevent an activity causing unacceptable levels of noise pollution, the activity will be stopped.

4.6 Emergencies

4.6.1 In the event of any unforeseen circumstances i.e. faulty equipment, the site manager will make an assessment of whether to cease activities/all operations with the main emphasis on site will be to reduce any noise impacts.

5 Actions when complaints are received

5.1 Complaints procedure

5.1.1 If any noise complaints are received, site management will complete a 'complaints and events log' and detailed individually on the complaints form (in Appendix I), both of which will be kept for inspection on request by the LA or EA. Details of information to be completed are dates, nature of complaint, weather conditions at the time of the complaint, investigation details, action taken and a signature (as a minimum).

5.1.2 Noise complaints will be prioritised and investigated without delay or by end of working day only in extenuating circumstances. This will also apply to complaints received both directly and via other sources (e.g. EA or local authority). Where investigation substantiates the complaint, fully or partially, then remedial action will be taken immediately and if measures taken fail to stop the pollution, then the activity must be stopped and not restarted unless and until additional measures have been implemented to prevent the emission causing pollution. The EA will be contacted in the event the complaint cannot be escalated. Following a complaint and if it is deemed correct following investigation, the appropriate action will be taken to prevent the issue from reoccurring i.e. evaluation of current abatement measures, site operations, additional abatement measures and re-training of staff via toolbox talks.

5.1.3 The operator will make a note of any unavoidable events plant/equipment malfunctions in the site diary, rather than just actual complaints received. This will ensure that if complaints are received retrospectively from either the Council/EA or third parties, any circumstances which led to that complaint as a result of elements outside of the operator’s control would be able to be attributed to the cause of the complaint.

5.1.4 It must be noted that the site lies adjacent to a noisy property to the north, so in the event of a complaint, the operator will substantiate the complaint by carrying out noise monitoring to identify whether the complaint is valid. If the complaint is valid, the site

will implement the complaint procedures check and if required, amend site operations and provide additional attenuation around the site.

5.1.5 If the source cannot be ascertained with 100% confidence, site management will either suspend or reduce the likely noise generating activities, i.e. mechanical treatment plant comprising shredder, screener, crusher etc.. .

5.1.6 If the source is within the site's control, site management will take appropriate action to ensure the issue has been rectified. This may take the form of the following:

a) Investigating the source to prevent a re-occurrence.
b) Suspending operations which are giving rise to excessive noise due to potential plant malfunction
c) Investigate noise mitigation measures
d) Logging findings of a – c in the site diary / complaints form and also in the reporting template within the EP.
e) Report actions to the complainant and/or EA within 24 hours should it be determined to be having substantial environmental harm.
f) If following the above complaints are still received, the site will cease operations until the issues have been rectified.

5.2 Complaints recording

5.2.1 Any complaints received in relation to noise and vibration will be recorded on the form shown in Appendix I. This form will normally be completed, signed and dated by site management, if they are not available, another suitably trained staff member.

5.2.2 The following details as a minimum will be completed on the form:

a) The name, address and telephone number of the caller will be requested.

b) Each complaint will be given a reference number.

c) The caller will be asked to give details of:

- the nature of the complaint;
- the time;
- how long it lasted;

d) The person completing the form will then, if possible, make a note of:

- the weather conditions at the time of the problem (rain snow fog etc.)
- strength and direction of the wind; and,
- the activity on the installation at the time the noise, dust or odour was detected, particularly anything unusual.

e) The reason for the complaint will be investigated and a note of the findings added to the report.

f) The caller will then be contacted with an explanation of the source of the complaint if identified and the action taken to prevent a recurrence of the problem in future.

g) Following any complaint, the complaints procedure will be reviewed to see if any changes are required or if new procedures need to be put in place.

6 Training

6.1 Training regime

6.1.1 All employees and sub-contractors of ASH Waste Services involved with potentially noisy operations will receive training in noise and vibration management.

6.1.2 Training will be given to all relevant persons to make sure they are competent in completing noise and vibration survey forms, noise and vibration complaint report forms and the site diary to ensure sufficient monitoring of noise and vibration can be carried out and any problems addressed correctly.

6.1.3 When selecting new plant and equipment, consideration shall be given to the need to meet all legislation and statutory guidance on noise levels and to minimise levels of noise from selected equipment.

6.2 Vehicle / plant preventative maintenance training

6.2.1 This training is provided specifically for the vehicle and plant operators in order to ensure that all plant and machinery is checked regularly to prevent any occurrences which may lead to any adverse impacts on the environment or human health.

6.2.2 Training will be based on the preventative maintenance schedule supplied by the plant/equipment manufacturer.

6.2.3 The same training will be provided to senior management enabling a dual-level maintenance programme.

6.3 Liaison with Neighbours

6.3.1 In the extreme event of a significant, but temporary, increase in noise and vibration from the site, neighbours will be contacted to advise them of the occurrence and action being taken to remediate the issue on site.

6.3.2 An open-door policy will be encouraged by the operator to enable any complaints from neighbouring premises (if received) to be dealt with immediately. The complainant will then be supplied with remedial actions taken and any procedures or measures put in place by the operator to reduce or ideally eradicate the likelihood of a subsequent complaint.

Appendix I

Complaints Report Form

COMPLAINTS PROCEDURE

1) Any complaints received in relation to noise and vibration will be recorded on the form below. This form will normally be completed, signed and dated by the site manager, if they are not available, an alternative member of staff will complete the form.

2) The name, address and telephone number of the caller will be requested.

3) Each complaint will be given a reference number.

4) The caller will be asked to give details of:
   - the nature of the complaint;
   - the time;
   - how long it lasted;

5) The person completing the form will then, if possible, make a note of:
   - the weather conditions at the time of the problem (rain snow fog etc.)
   - strength and direction of the wind; and,
   - the activity on the site at the time the noise was detected, particularly anything unusual.

6) The reason for the complaint will be investigated and a note of the findings added to the report.

7) The caller will then be contacted with an explanation of the source of the complaint if identified and the action taken to prevent a recurrence of the problem in future.

8) Following any complaint, the complaints procedure will be reviewed to see if any changes are required or if new procedures need to be put in place.

Complaints Report Form	
Date Recorded	Reference Number
Name and address of caller	
Telephone number of caller	
Time and Date of call	
Nature of complaint (noise, vibration) (date, time, duration)	
Weather at the time of complaint (rain, snow, fog, etc.)	
Wind (strength, direction)	
Any other complaints relating to this report	
Any other relevant information	
Potential reasons for complaint	
The operations being carried out on site at the time of the complaint	
Follow Up	
Actions taken	
Date of call back to complainant	
Summary of call back conversation	
Recommendations	
Change in procedures	
Changes to Noise & Vibration Management Plan	
Date changes implemented	
Form completed by	
Signed	
Date completed	