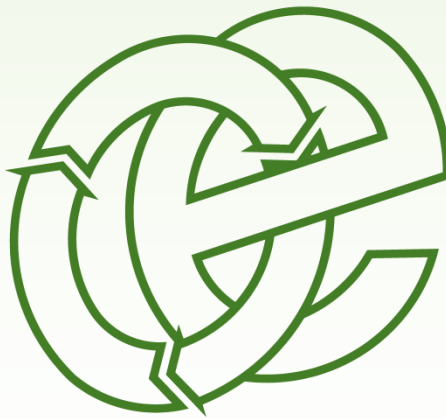


NOISE & VIBRATION MANAGEMENT PLAN

Moss Lane, Worsley, Manchester M28 3LY

UBU Environmental Limited

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1 Introduction

1.1 Site history / background

1.1.1 Oaktree Environmental Ltd have been instructed by UBU Environmental Limited to prepare a Noise & Vibration Management Plan (NVMP) which will outline the methods by which UBU Environmental Limited will assess and minimise the potential impacts of noise generated through the operation of the site situated at Moss Lane, Worsley, Manchester M28 3LY.

1.1.2 Reference should be made to the accompanying Noise Impact Assessment (NIA) as per BS4142:2014+A1:2019 with specific mitigation and good practice measures derived from this assessment used to inform the Subsequent Noise & Vibration Management Plan (NVMP). These mitigation measures will be put in place by the management of UBU Environmental Limited facility.

1.1.3 UBU Environmental Limited currently operate Environmental Permit (EP) reference EPR/RP3498CT which is listed as an A16 physical treatment of non-hazardous waste comprising the reception, storage, sorting and treatment of construction demolition and excavation (CDE) waste in the form of subsoils and topsoils and municipal wastes in the form street sweepings. The current treatment operations listed under the EP; extracted from Tables S1.1 and S1.2 are shown below:

- The total quantity of waste accepted at the site for the above activity shall be less than 110,000 tonnes a year.
- Treatment consisting only of dewatering, settlement, physical sorting or separation of non-hazardous waste into different

1.2 Application proposals

1.2.1 Specifically, the purpose of this NIA is to accompany an EP variation, the EP variation seeks to vary the EP to:

- Include blending, crushing and screening in the list of activities authorised under the physical treatment of non-hazardous waste activity ref. 1.16.12.
- Add new physical and chemical treatment of waste activity ref. 1.16.14 and the following treatment activities:
 - Washing
 - Centrifuging
 - De-watering
- The throughput of the 1.16.14 activity will be less than 75,000 tonnes per annum
- The total combined throughput will be 185,000 tonnes for the two activities combined

1.3 **Site location**

1.3.1 The site layout of the site including the permitted boundary is shown on Drawing No. MOSS/3448/03. All references to 'the site' shall mean the operations taking place inside the permit boundary.

1.3.2 The site is in the centre of Linnyshaw Industrial Estate just north off Moss Lane in the borough of Walkden. It has long been established for the physical treatment of waste facility with the site operating the CDE Enviro wash plant since 2017. The site is located within an industrial area with residential dwellings located south of the site. The nearest noise sensitive premises are as follows:

- Residential properties 18m south of the site, south of Moss Lane/north off Stoneyside Avenue.
- Residential properties 70m to the south-west of the site off Meadowside Avenue.

1.4 **Hours of Operation**

1.4.1 The operational hours of the facility have been restricted by planning permission issued by Salford City Council (latest variation 2017). Current operating hours are:

- 07:00am – 22:00pm (Monday – Friday)
- 07:00am – 17:00pm (Saturday)
- 07:00am – 13:00pm (Sunday and bank holidays)

1.4.2 In terms of the fixed plant and machinery, comprising the mechanical treatment of waste, operating hours for this are also restricted by the planning permission and are as follows:

- 07:00am – 21:00pm (Monday – Friday)
- 07:00am – 16:00pm (Saturday)
- No operations (Sunday and bank holidays)

1.4.3 Note there is also a 24-hour emergency provision which is utilised on a regular basis (typically once per month) and relates mostly to road traffic incidents.

1.4.4 It is proposed there will no change to the operational hours of the site.

2 **Sensitive Receptors**

2.1 **List of receptors**

2.1.1 The receptors listed from the SRP are also shown in the table below with approximate distances to these residential properties.

Table 2.1 – Distances to Selected, Representative Sensitive Locations

Boundary	Receptor	Approximate distance from site boundary (m)
South	Moss Lane/north off Stoneyside Avenue	18
South-west	Meadowside Avenue	70

2.1.2 For full details of the existing noise level at these locations as well as a subjective assessment of the existing noise climate, reference should be made to the accompanying NIA.

2.2 **Other noise sources**

2.2.1 The site is located within an industrial estate with numerous surrounding commercial/industrial uses. Other land uses which will contribute to the background noise level are tabulated below in Table 2.2.

Table 2.2 – Other Noise Emitting Operators

Company	Address	Type of Business	Approximate distance from site boundary (m)
Courier Express Refrigerated Transport	Linnyslaw Industrial Estate, Sharp St, Walkden, Worsley, Manchester M28 3LY	Courier Service	Adjacent
Service ubu	Walkden, Worsley, Manchester M28 3LY	Vehicle Repair	Adjacent

Company	Address	Type of Business	Approximate distance from site boundary (m)
North West Timber Manchester	Linnyslaw Industrial Estate, Sharp St, Walkden, Worsley, Manchester M28 3LY	Building Material supplier	Adjacent
Chester Coaches	The Coach Station, Sharp St, Walkden, Worsley, Manchester M28 3LX	Coach and minibus hire	120m east
Essential Access Platform	Linnyslaw Industrial Estate, Kane House, Moss Ln, Walkden M28 3LY	Plant and Machinery Hire	80m north west
Quin Civil Engineering	Walkden, Worsley, Manchester M28 3LY	Civil Engineering	80m north west

2.2.2 Additional noise emitting sources include the A666 motorway and the M61 motorway located approximately 460m north of the site. Other noises comprise noise arising from local residents including use of the road networks surrounding the houses off Moss Lane.

3 Noise Management and Controls

3.1 Noise Sensitive Receptors

3.1.1 As discussed previously, the site lies within an industrial / residential setting with the nearest noise sensitive residential receptors located adjacent to the south just off Moss Lane.

3.1.2 The proposed operation and layout of the site has been planned in order to contain all the required operations and activities within the site including proposed construction of the bays for storage and washdown/dewatering. With a concrete acoustic barrier in the northwest yard, thus limiting the impacts from noise on the above receptors.

3.1.3 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.

3.2 Appropriate measures / Best available techniques (BAT)

3.2.1 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.

3.2.2 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.

Table 3.1 – Noise Management Table

Source(s)	Receptor(s)	Consequences	Probability of noise disturbance	Remedial Action/ Recommendations/ Comments	Assessment Outcome following actions / recommendations
Vehicles tipping waste deliveries into the waste reception areas	As detailed on Sensitive Receptors Plan	Noise pollution	Low	<p>The waste tipping areas are located within bays and surrounded by concrete perimeter walls which will offer acoustic screening.</p> <p>Drivers must lower the tipper body before driving away from the tipping area.</p> <p>Drop heights will be kept to a minimum to reduce noise levels.</p> <p>Management will ensure that all vehicles involved in the tipping of waste operated by UBU Environmental Limited are functioning suitable i.e., vehicles must be well maintained and operated with silencers and moving parts to be regularly lubricated.</p> <p>All vehicles will benefit from white noise reverse alarms and be fitted with chain socks in order to reduce the noise produced by the loose chains banging on the side of the skip/containers.</p> <p>This will only take place as per the hours shown in Section 1.4.</p>	Very Low / Negligible
Manoeuvring of waste/materials around external areas of the site	As detailed on Sensitive Receptors Plan	Noise pollution	Med	<p>Management will ensure that all site vehicles operated by UBU Environmental Limited are functioning suitable i.e. vehicles must be well maintained and operated with silencers and moving parts to be regularly lubricated.</p> <p>The site will be surfaced with concrete and will be flat and maintained in good state of repair to prevent unnecessary banging of vehicles on uneven ground.</p> <p>A maximum speed limit of 5mph will be maintained.</p> <p>Drivers will be informed to turn off engines when the vehicle is not in use and no revving of engines will be permitted at the site.</p> <p>All vehicles will benefit from white noise reverse alarms.</p> <p>This will only take place during the hours shown in Section 1.4.</p>	Low

Source(s)	Receptor(s)	Consequences	Probability of noise disturbance	Remedial Action/ Recommendations/ Comments	Assessment Outcome following actions / recommendations
<p>Loading of waste into mechanical treatment plants i.e. trommel, screener, crusher and shredders</p> <p>Use of wash plant, trommel, screener, crusher and shredders</p>	As detailed on Sensitive Receptors Plan	Noise pollution	High	<p>Refer to the above actions and additional actions/proposals are shown below.</p> <p>The loading of waste into the treatment plants r is done using a 360⁰ 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.</p> <p>It is proposed to operate this machinery between the hours shown in Section 1.4.</p> <p>Management will ensure that all loading plant operated by UBU Environmental Limited is functioning suitably i.e. moving parts to be regularly lubricated.</p> <p>Only use the items of plant in the locations shown on Drawing No. MOSS/3448/03</p> <p>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.</p> <p>Any malfunctions in plant i.e. missing screws/bolts which result in excessive noise will be de-commissioned until an alternative loading plant sourced.</p>	Low
Small vehicles travelling to and from the site (e.g. staff and visitor's cars, courier van deliveries etc.)	As detailed on Sensitive Receptors Plan	Noise pollution	Low	<p>All those working on and visiting the site to be made aware of need for considerate driving and keeping vehicles well maintained.</p> <p>Small vehicles will arrive marginally earlier than the main site operating hours shown in Section 1.4 but it is considered they will not contribute to any complaints.</p>	Very Low / Negligible
Repairs	As detailed on Sensitive Receptors Plan	Noise pollution	Low	<p>If repairs to the site are required, the work is to be undertaken with due regard for the possible noise nuisance and during the normal working day.</p> <p>Repairs will be undertaken outside of the permitted area.</p> <p>In the event of major repair work being undertaken which is likely to cause significant noise and disruption, neighboring residents and the EA will be notified in advance.</p>	Very Low / Negligible

4 Monitoring

4.1 Onsite Monitoring Procedures

- 4.1.1 Noise levels will be subjectively monitored by site management throughout the day when noisy operations are taking place i.e. during mechanically processing waste, unloading/loading waste etc.. 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 they 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.
- 4.1.2 In terms of the on-site monitoring, particular attention will be given to processes which maintain any mitigation measures (such as barriers or low noise equipment) which are going to be implemented on site as demonstrated in the table overleaf.

Table 4.1 - Description of onsite processes which will ensure impacts do not increase on site

Description of procedure	Procedure	When will this be carried out?	Corrective action
Replacing old / faulty equipment	Procurement of new equipment	When equipment requires replacing or if staff/site management notice excessive noise when using the plant/equipment	Replace equipment that have sound levels which are equivalent or lower sound levels compared to existing equipment
Noise barriers/concrete walls	Visual inspection of barriers to ensure no gaps or holes	Monthly	Repair the barriers if holes or gaps are found.
Mobile plant i.e. forklifts, loading shovels	Procurement of new equipment	When equipment requires replacing	Replace equipment that have sound levels which are equivalent or lower sound levels compared to existing equipment. Consider electrically powered equipment.
Wash plant and associated fixed plant (trommel screen)	Procurement of new equipment	When equipment requires replacing or if staff/site management notice excessive noise when using the plant/equipment	Replace equipment that have sound levels which are equivalent or lower sound levels compared to existing equipment.
Other mobile plant i.e. crusher/screener	Procurement of new equipment	When equipment requires replacing or if staff/site management notice excessive noise when using the plant/equipment	Replace equipment that have sound levels which are equivalent or lower sound levels compared to existing equipment.
HGVs on/off site	Visual inspections for speed restrictions, idling, radios switched down, common courtesy from drivers	Continuous	Liaise with site management if any drivers do not obey site rules and carry out disciplinary actions or refuse entry into the site.
Site infrastructure – surfacing	Visual inspections of concrete pad to ensure no cracks, holes which could cause crashing/banging of vehicles during transport	Daily checks as per EMS	Resurfacing of concrete pad within 1 week depending on weather suitability
Vehicle movements	No idling, spread out deliveries/loading/unloading throughout the day	Daily as per EMS	Review timing of deliveries/loading/unloading should complaints occur or off-site monitoring finds excessive noise levels likely to cause complaints

4.2 **Monitoring off site sound levels**

- 4.2.1 If any EP is issued, additional post-completion monitoring of the site be undertaken within areas representative of the nearest residential receptors in order to confirm the calculated rating level. Due to the methodology undertaken within the modelling, these are likely to overstate the noise levels and associated impact. Measured parameters should include LAeq, LAm_{ax}, LA90 and LA10 and should be used to re-assess the site prior to revision of the NMP, if required. The site should not operate until an updated NIA has been approved in writing by the EA. The level of monitoring required including timescales will be agreed with the EA prior to commencing the activities.
- 4.2.2 If sound levels are measured which are in excess of the expected results shown within the NIA, further mitigation measures will be installed at the site and a new NIA will need to be agreed with the EA in writing prior to the operations giving rise to the excessive noise commencing.
- 4.2.3 A suitably qualified acoustician will be responsible for carrying out the investigation and the acoustician would advise the operator cease operations giving rise to the excessive noise until remedy actions can take place. Should the excessive noise be due to faulty, old plant/equipment where newer models have quite sound levels, this equipment would be replaced within 3 months and evidence provided to the EA.

4.3 **Recording**

4.3.1 Site management will record complaints in the site diary or complaints report from in Appendix II and contact the Council within 24 hours if a complaint is received.

4.3.2 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 and notify the Council within 24 hours. This will ensure that if complaints are received retrospectively from either the Council 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.

4.4 **Emergencies**

4.4.1 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 II), both of which will be kept for inspection on request by the LA, EA or third parties. 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 Council 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. This would involve using a level 2 sound meter and comparing this information from the background levels recorded from the recent Noise Impact Assessment.

- a) If the source cannot be ascertained with 100% confidence, site management will either suspend or reduce the likely noise generating activities, i.e. cutting, shearing/baling.
- b) 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:
- c) Investigating the source to prevent a re-occurrence.
- d) Suspending operations which are giving rise to excessive noise due to potential plant malfunction
- e) Investigate noise mitigation measures
- f) Logging findings of a – c in the site diary / complaints form and also in the reporting template within the EP.
- g) Report actions to the complainant and/or EA within 24 hours.
- h) If following the above complaints are still received, the site will cease operations until the issues have been rectified.
- i) The Council will be notified by email of any third-party noise complaints received within 24 hours including the complainant and the outcome of the investigation. Where complaints are substantiated as causing or likely to cause significant noise pollution, then the Council will be notified.

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 II. 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;
 - how often it occurs;
 - is this the first time the problem has been noticed; and,
 - what prompted them to complain.
- 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) If the caller is unhappy about the outcome or unwilling to identify themselves the caller will be referred to the appropriate department of the EA or Local Council.
- h) 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 UBU Environmental Limited involved with potentially noisy operations will receive training in noise and vibration monitoring and complaint reporting.
- 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.

7 Conclusion

7.1 Summary

- 7.1.1 Oaktree Environmental Limited have undertaken an NIA and NMP for the site situated at Moss Lane, Worsley, Manchester M28 3LY and produced this NMP based on the conclusions below represent the findings of the NIA. The conclusions have been made in line with the Noise Policy Statement Noise policy statement for England - GOV.UK (www.gov.uk).
- 7.1.2 The site will adopt appropriate measures in accordance with Noise and vibration management: environmental permits - GOV.UK (www.gov.uk) which have been provided in Section 6.1.1 of the NIA.
- 7.1.3 The primary receptors are the residential dwellings to the south and south-west of the site with the nearest located 18m away.
- 7.1.4 The proposed layout of the site has been designed with acoustic issues in mind and the site has been assessed with regards to BS4142 and in conjunction with BS8233 for the external amenity areas. The impacts associated with the proposed operation are considered to be adverse impacts however, this is due to existing operations and not from any proposals arising from this variation. The proposed changes are deemed to be acceptable.
- 7.1.5 If any EP is issued, additional post-completion monitoring of the site be undertaken within areas representative of the nearest residential receptors in order to confirm the calculated rating level. Due to the methodology undertaken within the modelling, these are likely to overstate the noise levels and associated impact. Measured parameters should include LAeq, LAmx, LA90 and LA10 and should be used to re-assess the site prior to revision of the NMP, if required. The site should not operate until an updated NIA has been approved in writing by the EA.

Appendix I

Drawings



NOTES
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REVISION HISTORY

Rev:	Date:	Int:	Description:
-	05.09.24	JH/CP	Initial drawing

KEY:

- Permit boundary
- Impermeable concrete surfaces
- Freely draining hardstanding surfaces
- Waste storage area
- Non-waste storage area
- Gully
- Manhole
- Inspection cover
- Drainage flow direction
- Silt trap
- Pit
- Interceptor
- Surface water fall direction
- Surface drainage
- Foul drainage
- ACO drain
- Storage bays (height/size vary)
- Buildings

Washplant	
Number	Description
①	Oversize Aggregate
②	Trommel
③	Conveyor
④	Recovered metals
⑤	Logwash
⑥	Aggregates
⑦	Pipe bedding
⑧	Sand
⑨	Sand
⑩	Flocculant added
⑪	Centrifuge
⑫	Filter cake
⑬	Effluent tank

TITLE:
SITE LAYOUT PLAN

CLIENT:
UBU Environmental Ltd

PROJECT/SITE:
Moss Lane, Worsley, Manchester M28 3LY

SCALE @ A0:
1:250

CLIENT NO:
3448

JOB NO:
001

DRAWING NO:
MOSS-3448-03

REV:
-

STATUS:
Issued

DATE:
05.09.24

DRAWN:
JH/CP

CHECKED:
-



Appendix II

Complaints Procedure and Recording Form

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 Written Management System	
Date changes implemented	
Form completed by	
Signed	
Date completed	