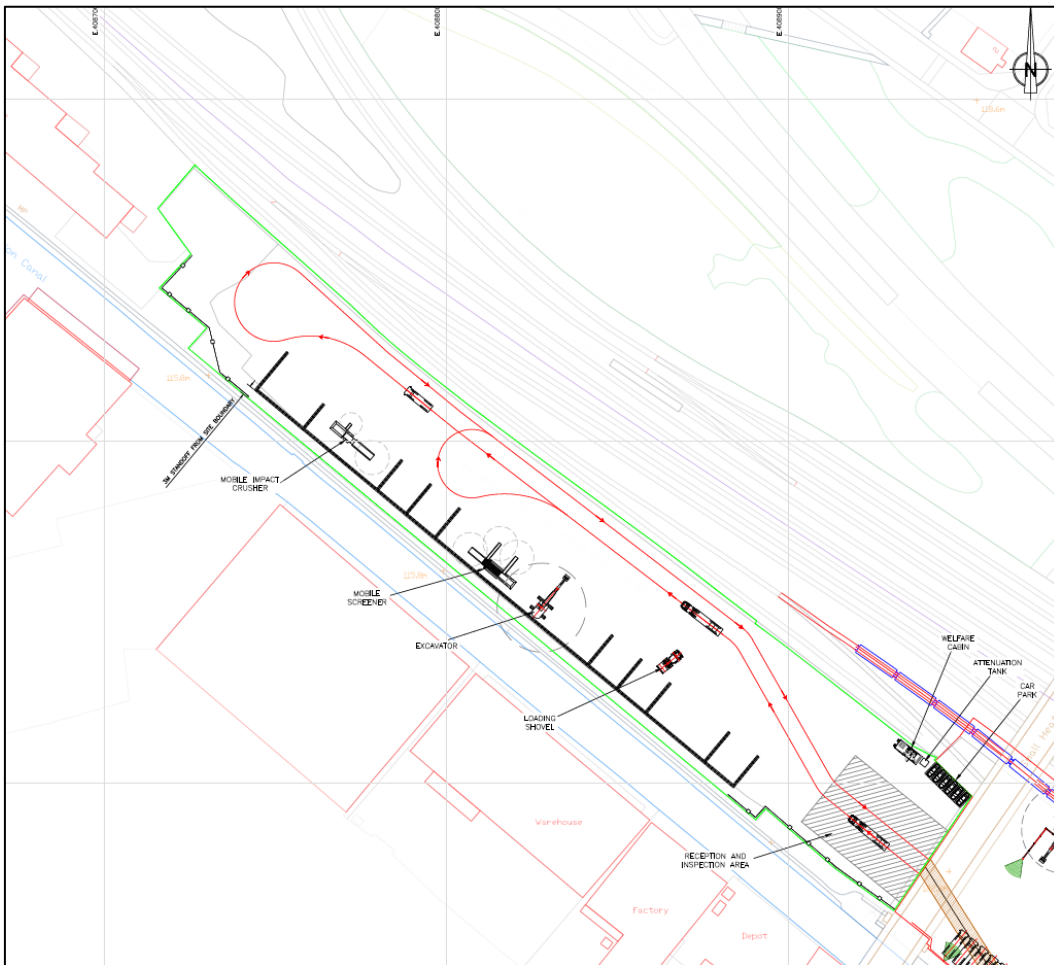


# CEMEX Small Heath, Birmingham, B11 1EU

784-B042739

## Operational Noise Management Plan





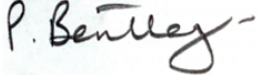
CEMEX Small Heath, Birmingham B11 1EU




June 2024

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# DOCUMENT CONTROL

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- Appendix A – Site Layout With Noise Sources
- Appendix B – Example Weekly Noise Checklist
- Appendix C – Noise Complaint Investigation Form

## 1.0 INTRODUCTION

### 1.1 SCOPE OF THE OPERATIONAL NOISE MANAGEMENT PLAN

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This Operational Noise Management Plan (ONMP) has been prepared on behalf of CEMEX to support an Environmental Permit Application for site at Small Heath, Birmingham, B11 1EU and to reduce the risk of long-term operational noise impacts associated with the development.

The site will operate under an environmental permit that allows the storage and processing of demolition and construction waste. The environmental permit will control noise emissions from the site activity. This noise management plan is to be followed to ensure compliance with the environmental permit condition relating to noise.

### 1.2 DESCRIPTION OF SITE ACTIVITIES

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The treatment activities regulated in the permit would include mechanical sorting and separation through screening, crushing and waste processing etc.

The site is to be operational 24 hours a day, have up to 100,000T inbound waste and outbound sales. Aggregate will be produced from the delivered waste and turned into various products depending on the quality. The imported construction and demolition waste will be turned into aggregate used as sub-base or fill materials, with the higher quality concrete waste will become aggregates used within CEMEX's own internal ready mix manufacturer process. A loading shovel will be used to move the waste that is delivered to site via Heavy Goods Vehicles (HGVs).

Careful management of operational noise is required to reduce the risk of noise impacts on sensitive receptors through Best Available Techniques (BAT). The general methods of reducing and managing operational noise are presented within this ONMP. These methods are intended to control noise associated with site operations, and to provide a method of communication between local residents and the site operator (CEMEX) should complaints arise.

The proposed site layout plan including noise generating sources has been included within Appendix A.

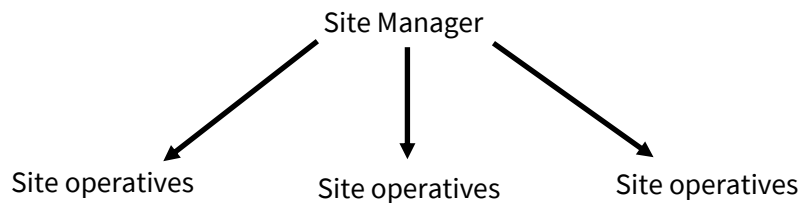
## 2.0 SITE MANAGEMENT

### 2.1 MANAGEMENT

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The site management and reporting structure will be as follows:

**Figure 2.1: Site Management Structure**



### 2.2 RESPONSIBILITY FOR THE IMPLEMENTATION OF THE NOISE MANAGEMENT PLAN

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The implementation and dissemination of this ONMP will be the responsibility of the Site Manager, supported by other staff. The Site Manager can delegate certain tasks as required, although ultimate responsibility will remain with them.

A nominated deputy will be appointed for all times when the Site Manager is not on site. In such circumstances, it will be the nominated deputy's responsibility to ensure that the requirements of the ONMP are adhered to.

All site staff will receive instructions on how the management plan is to be implemented during toolbox talks on site.

This document forms part of the Site's Environmental Management System (EMS) and will be reviewed on an annual basis to ensure that it is fit for purpose and meets the requirements of current guidance.

## 3.0 OPERATIONS

### 3.1 OPERATING HOURS

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The site will operate on a 24-hour basis with deliveries able to occur at all times. Processing of material including crushing/screening will take place in normal daytime working hours. *Waste Import Aggregate Export*

The import of waste and export of aggregate will take place on a 24-hour basis Monday to Sunday (including bank holidays).

#### *Waste Processing*

Waste processing and the use of associated machinery is only to be undertaken between:-  
07:00 – 23:00 Monday to Sunday (including bank holidays)

### 3.2 PROPOSED PLANT AND EQUIPMENT

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#### *Waste Import/Aggregate Export Vehicles*

While specific models of export vehicles have not been stated, the site will use rigid lorries with 3 or 4 axels. Other vehicles may enter and be used on site on an ad hoc basis.

#### *Waste Processing Plant*

- McCloskey I44v3 Impact Crusher
- McCloskey R230 Three Way Screener
- 20T Excavator
- JCB 437 Loading Shovel

It should be noted that all equipment will be mobile rather than fixed. Also, the equipment list stated above is typical for the type of operation to be undertaken at Cemex Small Heath, however it may be subject to change and should be updated by site management if any changes are made.

### 3.3 SITE MANAGEMENT

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Site staff will ensure that the delivery and loading of waste takes place in a controlled manner so that noise generation is kept to a minimum. Such measures include:

#### HGV Movements and Deliveries

- Internal roads and service yard to be maintained to avoid noise from trucks hitting from potholes, ruts etc;
- Engines to be switched off when vehicle is waiting or not in use;
- Manoeuvring should be minimised as far as practicable to avoid unnecessary revving of engines;
- No use of vehicle horns unless as an emergency health and safety requirement;

#### On-site Movement of Materials/Waste

- No unnecessary shouting in the external yard area;

- Mobile plant operators should seek to minimise drop heights and excessive banging of materials when loading/unloading;
- No use of vehicle horns unless as an emergency health and safety requirement;

#### Fixed Plant/Machinery

- Regular inspection of machinery will be undertaken;
- Ensuring that regularly maintained and appropriately silenced equipment is used;
- In terms of on-site employees, appropriate actions will take place with regard to the Noise at Work Regulations including the requirement for the use of ear defenders and appropriate warning notices.

In addition to the above, the following measures will be implemented:

- Regular maintenance of all equipment which as a minimum are in-line with manufactures recommendations;
- Qualitative and quantitative monitoring of noise levels generated by the site operations will be carried out on a weekly basis by site staff and be recorded on the weekly checklist; and,
- Should noise issues with any on-site plant be identified, immediate steps will be taken to take the plant out of circulation (where possible) and repairs will be actioned as soon as possible to remedy the problem.

### **3.4 MAINTENANCE**

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In terms of in-house maintenance, the site will utilise Planned Preventive Maintenance (PPM) as per the manufacturer's Operation and Maintenance Manual. Corrective actions can also be raised for potential anomalies that are identified. Only personnel who are trained and licensed to operate equipment and carry out maintenance will do so.

All machinery and equipment will be maintained in accordance with a Preventative Maintenance Program (PMP) which will be defined by the manufacturer's requirements. This will ensure that the integrity and operational efficiency of all plant and equipment is maintained and therefore minimise the risk of mechanical failure which may result in increased noise emissions.

In accordance with the site's Environmental Management System (EMS), all plant and equipment will be inspected on a daily basis by a nominated manager prior to use. The purpose of this inspection is to identify any signs of defects that may affect the integrity and operational efficiency of the plant.

### **3.5 DEFECTIVE MACHINERY OR EQUIPMENT**

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In the event that a defect is identified on any item of machinery or equipment, the use of it will be suspended until the necessary remedial works have been undertaken. In order to facilitate this, mobile plant will be isolated, and the Site Diary will be updated to outline the operational conditions and availability of all machinery and equipment.

Once the necessary remedial works have been undertaken, the Site Diary will be updated to provide details of the defects and the remedial actions that were undertaken.

Management staff will undertake monthly checks, to ensure all equipment is operating efficiently and without excessive noise. Any defects or damage will be reported to the site Manager and remedied in reasonable time.

### **3.6 WEEKLY CHECKLIST**

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The site manager, or designated person, will be responsible for ensuring that weekly checks are made around the site and its externals in order to identify any unusual or unexpected sources of noise, and to establish whether any unusual noise is discernible at the perimeter of the site. The noise checks will be carried out by the designated person who will undertake site walkovers to assess the qualitative character of the sounds. The qualitative observations will be recorded on a log sheet. An example noise log sheet has been included within Appendix B.

Any abnormal noise identified must be clearly marked on the inspection form. Should noise be identified during a routine noise assessment, which, based on its characteristics and the prevailing meteorological conditions, may originate from the facility, then an immediate investigation into the source of the noise will be undertaken. Such an investigation would also be undertaken in response to any complaints that may be received.

Immediately upon detection of any abnormal noise, or receipt of any noise complaint, the following checks will be made:

- Physical check on mobile plant;
- Physical check on fixed plant; and,
- Qualitative noise checks either near to the source or at the boundary of the site which can be compared with previous observations to help determine changes to the noise level.

If any anomalies to normal site settings are observed, immediate remedial action will be taken, and anomalies and corrective action recorded in the site diary.

Depending on the abnormal noise identified and anticipated time of resolution, the Site Supervisor and Site Manager will determine if operations are to cease or continue until the issue has been resolved.

Site management will not solely rely on the specific weekly noise checks, as noise levels generated by the operation will be assessed on a continuous qualitative basis by the site staff present on site and any noise identified outside the regular inspections will be reported to site management for investigation.



### **3.7 TRAINING AND ONGOING MANAGEMENT**

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Staff on site (including the Site Supervisor and Manager) will be provided with training and instruction in all aspects of the respective job role and responsibilities, this includes full training on any plant and fixed equipment they will operate.

For fixed plant this will comprise of the following as a minimum:

- The hazards/risks of the equipment, including a consideration of site-specific factors;
- The safe operation of the equipment and associated operations;
- The use of safety components;
- Lock-off procedures/procedures for cleaning, clearing blockages and maintenance;
- The safe resetting of the equipment following activation of emergency stops; and,
- Equipment specific maintenance requirements.

Regular checks will be undertaken by the Site Supervisor and Manager to ensure that the plant is fully functional, operating as normal and that there are no irregularities within the noise emitted from the plant. The Site Supervisor (if not the Site Manager) will generally be the Technical Competent Person for the site and will have the relevant training regarding the operation of this type of waste management site.

As part of the staff training, site personnel will be advised of the following aspects, particularly in relation to noise:

- The proper use and maintenance of plant and equipment to minimise noise;
- Control of Noise at Work – Occupational Noise Hazards;
- Management of environmental noise; and,
- Avoidance of unnecessary noise when carrying out manual operations and when operating plant and equipment.

Site staff will be trained on site on the above topics. The training provided will promote the importance of being aware of and controlling both occupational and environmental noise.

Staff and management training records will be kept and can be made available to the Local Planning Authority on reasonable request.

### **3.8 NON -CONFORMANCES AND COMPLAINTS**

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Any noise complaints received at the facility or via the Local Authority will be recorded. Cemex will acknowledge the complaint and conduct an appropriate investigation into the complaint. This will be both on site and at the location of the complaint, if known, to determine the significance of the noise and particular process giving rise to the complaint. Where possible, as much information and detail about the complaint will be recorded, whether this is from the relevant authority or complaint direct to site. This information will assist in the investigation and determining the source of the noise.

All complaints and queries will be logged as soon as in practicably possible. Should the complaint be received out of typical office hours, site management shall try to attend site as soon as possible to carry out an investigation dependent upon availability. An initial investigation shall be carried out at the latest on the following day after the complaint. Should the initial investigation indicate that further detailed investigation is required, the Site Manager will action the necessary additional work as quickly as reasonably possible. In this instance, the complainant, local authority, and other relevant stakeholders will be informed that additional investigative work is being undertaken and an approximate time for completion will be provided.

All complaints logged will be subject to investigation and records will be kept on site. Results of investigations into complaints would be recorded on site and reported back to the complainant or the reporting body if requested. All responses will be relayed through trained and experienced staff.

Cemex will ensure that the complainant has all the relevant contact details of the site (i.e. the Site Manager), and the officer responsible at Birmingham City Council (BCC). Cemex will be in regular contact with the complainant and BCC whilst the cause of the noise is being investigated and remediated.

An evaluation of the effectiveness of the techniques used will be carried out on completion of any remedial measures and records of the above will be retained by site for future reference.

### **3.9 NOISE COMPLAINTS AND MANAGEMENT REVIEW**

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Each complaint will be reviewed and assessed. If the site is identified as the source of the potential noise nuisance, an assessment shall be carried out in order to determine the source of the complaint and then the cause of the noise.

If the noise can be directly related to the site, corrective actions will be identified and programmed for remediation. Actions taken in response to any noise complaint will be recorded on a noise complaint investigation form. An example noise complaint investigation form has been included within Appendix C.

The site manager will be informed immediately of any findings of noise attributed to the site following initial observations and will authorise remedial measures to be taken. Remedial actions will be dependent on the source of the noise and may include but not limited to:

- Resolution of noise causing issue on mobile plant;
- Abnormal noise identification and resolution on machinery using either internal staff or external maintenance company.

CEMEX will aim to remediate any noise issues from the site as quickly as possible. However, should it become evident that permanent repairs may be delayed, CEMEX would aim to apply short term remedial actions to reduce the noise impact. If this is deemed unsatisfactory, Cemex will start looking at the contingency plan until long term actions can be implemented.

If necessary and following any complaints received, CEMEX will engage and communicate with the local residents to improve our understanding of possible noise issues. This will include detailing the

efforts being undertaken to control noise; and importantly the actions being taken in response to any complaint.

CEMEX will operate an open communication policy with residents and businesses surrounding its sites. Should any problems associated with noise be identified (either by CEMEX or through external sources), we would engage with those surrounding the site to ensure that they are kept up to date and have means of communicating with us through an appropriate communications strategy established by the communications team and in agreement with the client. This may include but are not limited to letter drops, direct contact with local residents or businesses (either by phone, email or other contact method) and social media updates.

All noise complaints will be investigated immediately by the Site Management and HSE Manager including, but not limited to, a review of the number of complaints, weather conditions, investigations and remediation works. If required, the Site Management Plan and Noise Management Plan shall be updated to reflect any changes made to the management procedures on site following the review.

Site Management will review all procedures for the facility against other CEMEX and management procedures as well as industry practice and guidance, along with permit conditions to ensure continued best practice is carried out at the facility. Any amendments to practices on site will be reflected in updates of the Site Management and Noise Management Plans.

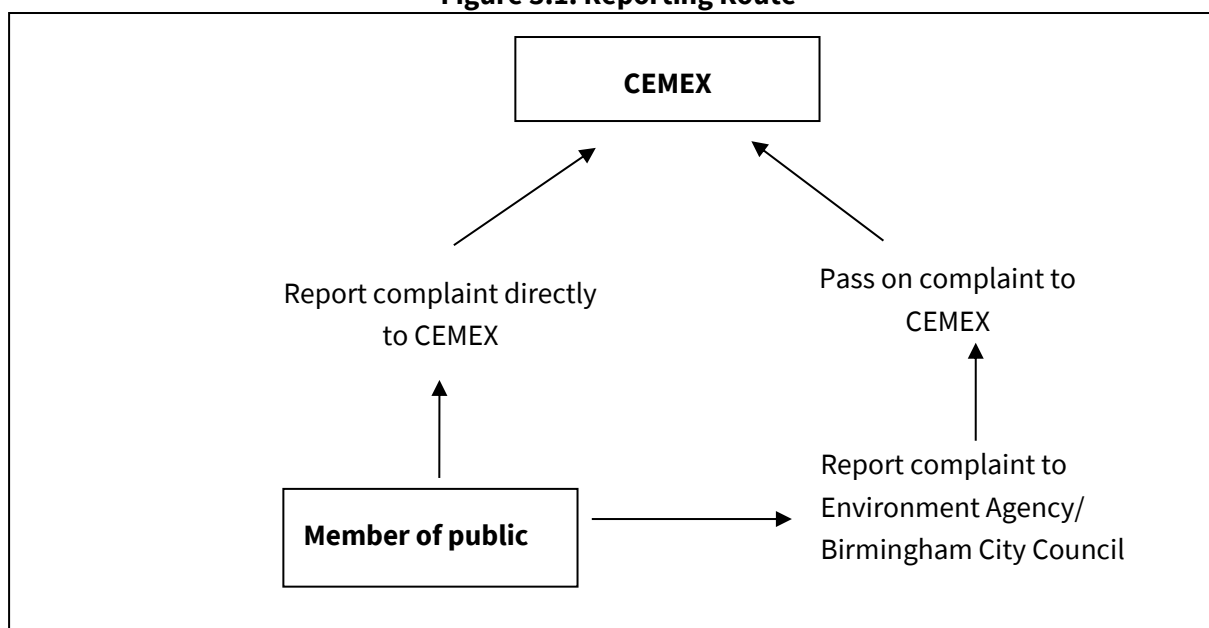
All noise complaints will be reported to the HSE Department via the Site Manager and where applicable communicated to relevant parties within CEMEX as part of the HSE department's monthly review.

### 3.10 MEANS OF CONTACT

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The site will be readily contactable to outside organisations and to members of the public. Contact details to raise queries and complaints will be made available on the company website.

**Figure 3.1: Reporting Route**



### **3.11 OPERATIONAL MANAGEMENT PLAN REVIEW**

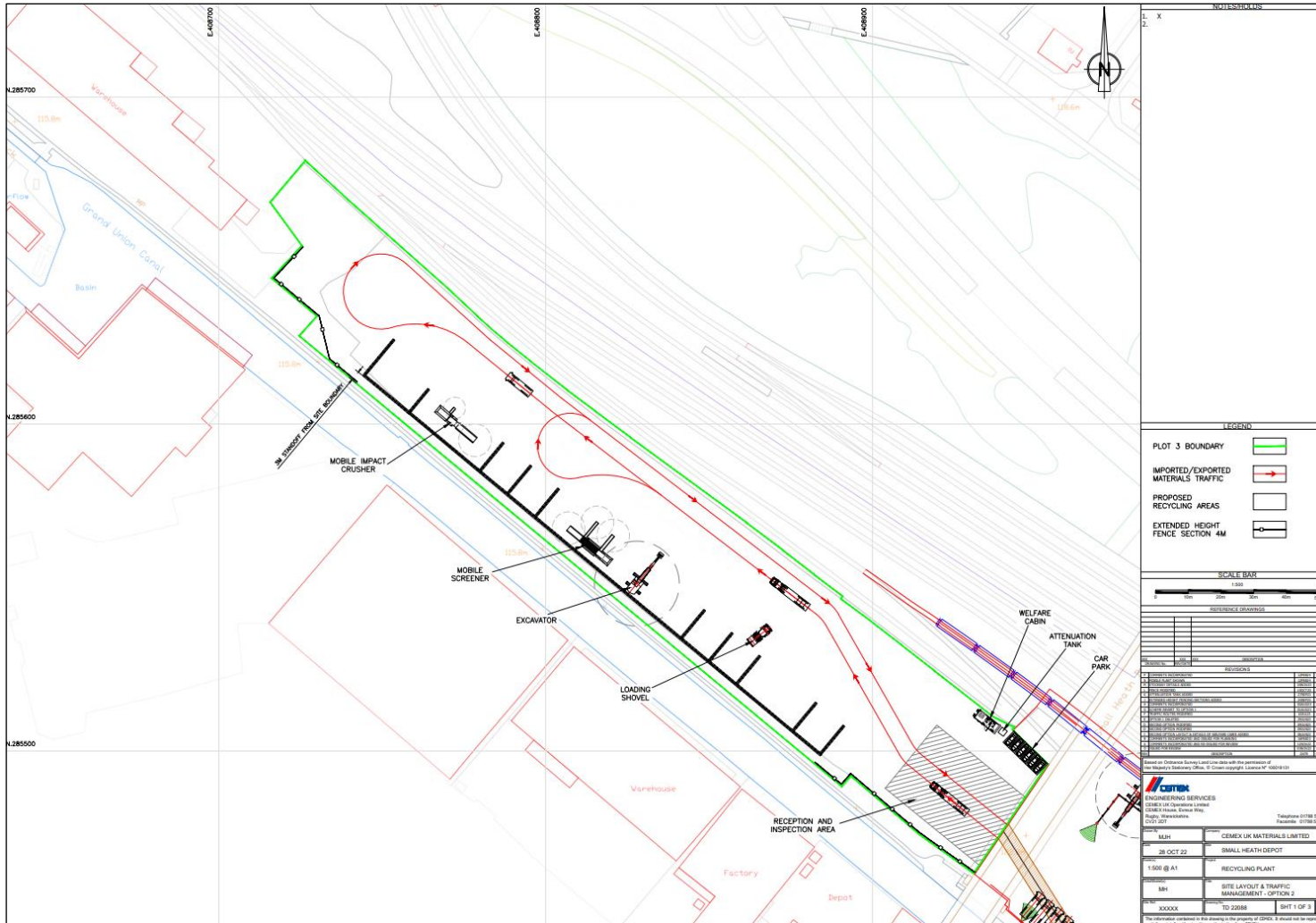
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This operational noise management plan will be updated on a continuous basis by Site Management to ensure the ONMP remains current and the contents relevant to the actual on-site operations. The ONMP will be reviewed annually by CEMEX Site Management and Compliance Team.

A record of the changes and reason for the change will be made. Copies of the new ONMP will be sent to the Environment Agency.

## APPENDICES

# APPENDIX A – SITE OPERATIONAL LAYOUT



## APPENDIX B – EXAMPLE WEEKLY NOISE CHECKLIST

### Daily Noise Log Template (Qualitative Observations)

<b>Date</b>	
<b>Observation Location(s)</b>	
<b>Observations</b>	
<b>Actions Required?</b>	
<b>Observers Name</b>	
<b>Signature</b>	

## APPENDIX C – NOISE COMPLAINT INVESTIGATION FORM

### Noise Investigation - Detailed Assessment Form

To be completed after "abnormal" noise is detected or following a complaint

**NOISE ASSESSMENT REPORT** CAR Ref

Site Name and Address

Date

Weather  Wind (strength & direction)

Temperature  Ground Condition

Time Start Time Finish

Complaint Received **Yes / No** Date/Time complaint received

Location of Complaint Area

Number of complaints (related to the same source)

Plan attached showing location of noise and vibration detected **Yes / No** (delete as appropriate)



Description and Photographs of location where noise and vibration detected

Time noise and vibration noticed and duration

Description of noise and vibration (eg hiss, rumble, humble)

Noise and vibration constant or intermittent in the period?

Additional Comments and relevant information

Signed

Persons Contacted Regarding Process

Action Required and taken