

NOISE MANAGEMENT PLAN

Asphalt Plant, (Celsa Manufacturing UK Ltd),
Tremorfa Works, Seawall Rd, Cardiff, CF24 5TH

Environmental Permit: (CELSA) EPR/TP3639BH

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VERSION CONTROL

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1.0 Introduction

The Noise Management Plan relates to the activities undertaken by Harsco at the Asphalt Plant located at Celsa Manufacturing (UK) Ltd, under Environmental Permit reference: EPR/TP3639BH. The facility is located at Tremorfa Works, Seawall Road, Cardiff, CF24 5TH.

Noise pollution is unwanted sounds or sound that is not desired by the recipient. The degree of annoyance and stress that can result from exposure to noise is almost impossible to quantify, since responses may vary widely between individuals.

A Noise assessment of the proposed activities was undertaken in accordance with the Environment Agency's Horizontal Guidance Note IPPC H3 Part 2 (Noise Assessment and Control) and British Standards BS 7445-1:2003 & BS 4142:2014. This report takes into consideration the findings of the assessment and the guidance provided in H3.

It identifies potential sources, pathways and receptors of noise emissions, and details the required control measures to minimise any adverse environmental impact.

1.1 Aims

The aims of the Noise Management Plan are to:

- Identify activities with the potential for noise generation
- Develop and implement an effective noise management strategy
- Minimise the likelihood of noise emissions from site and reduce potential environmental impact
- Ensure compliance with the environmental permit

2.0 Roles & Responsibilities

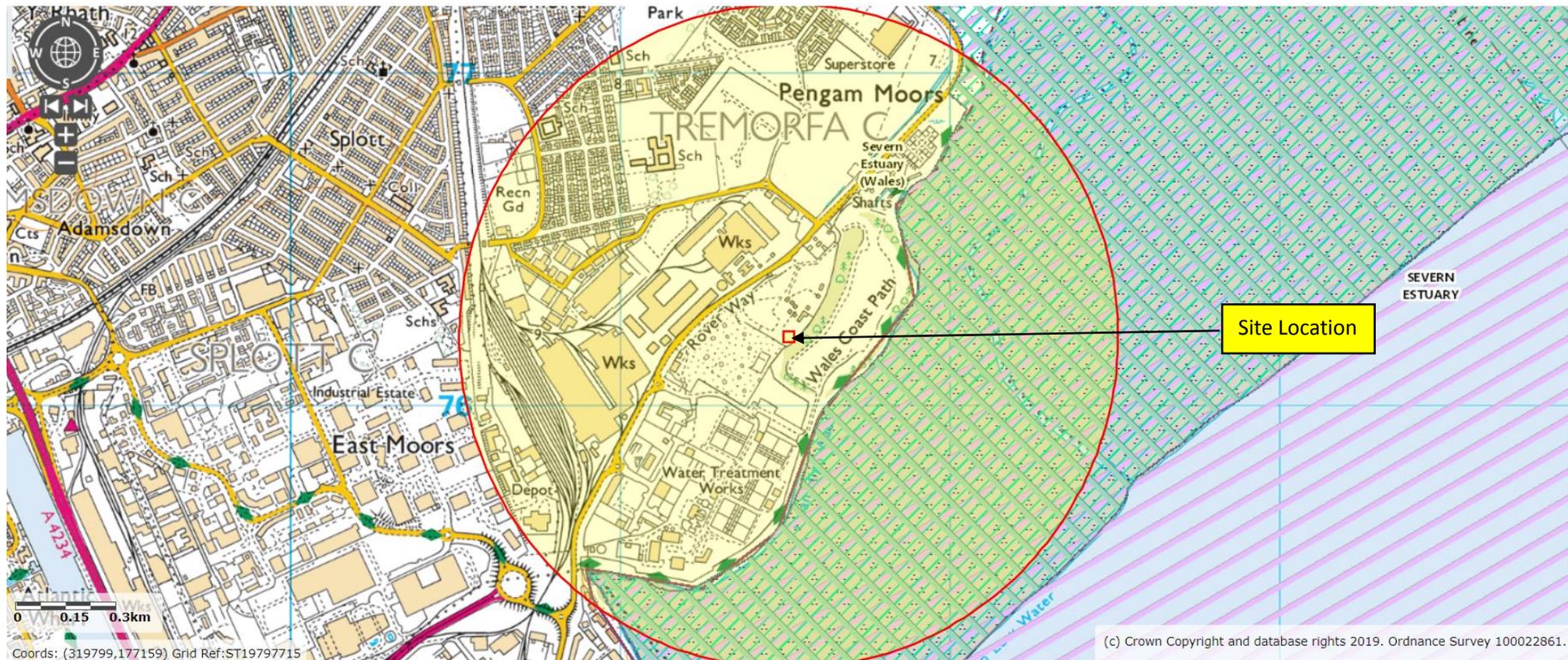
Overall responsibility for the implementation of the Noise Management Plan lies with the Site Operations Manager. Site employees shall be trained in accordance with the company procedure EM-P-0020.

3.0 Site Location

The site is located in a predominantly industrial area within the Celsa Steelworks off Rover Way, Cardiff.

Figure 1) shows the location of the site and its associated surroundings within a 1km radius.

Figure 1) Site Location



Key: Red line = 1km radius

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3.1 Receptors

Table 1) below lists the potential sensitive receptors within a 1km radius of the site. Noise could potentially impact upon people residing in the nearby travellers' camp and the surrounding residential areas. The Wales Coast Path runs near the site, any excessive noise could negatively impact upon the associated amenity value of the path. The Severn Estuary is located to the South-east of the site; this has protected status and any adverse noise could impact upon the wildlife in this area.

Table 1) Sensitive receptors

Receptor	Distance	Direction
Wales Coast Path	216m	South-east
Severn Estuary (Ramsar, SSSI, SAoC, SPA status)	249m	South-east
Willow High School	530m	North north-west
Willow Avenue (residential)	580m	North
Travellers Camp	617m	North north-east

4.0 Site Activities

The primary activity undertaken on site involves the use of recovered (slag) aggregate which has been crushed and screened on the adjacent site to produce a range of recycled asphalt products.

The asphalt plant has the capacity to produce 250 tonnes per hour of asphalt materials. Pre-screened slag aggregate is fed into the asphalt plant with the addition of bitumen, returned asphalt, cellulose, fibres and filler in varying proportions to produce different specifications of asphalt.

Materials are dried using a rotary drier prior to being fed into internal storage hoppers within the plant. Process steam and particulates generated from the drying process pass through a dust extraction system and are then discharged via a chimney stack.

5.0 Sources of noise/vibration emissions

The following activities have the potential to generate noise:

- Vehicle movements in/out of the site (arising from: idling engines, misfiring, reversing alarms, brakes/gear changes, driving over uneven surfaces)
- Materials Handling (loading/unloading and general movement of materials)
- General operation of plant (arising from moving screens, conveyors, fan/rotary drier)
- Poorly maintained/faulty equipment (plant failure)
- Servicing and maintenance operations
- Adverse weather (contributing factor, e.g. if strong wind is in direction of sensitive receptors)

6.0 Pathways

Sound (noise) travels through waves which essentially transports the energy from one place to another. The intensity of the noise experienced by sensitive receptors may be affected by several factors including:

- Distance from the source
- Wind direction / other meteorological conditions
- Atmospheric absorption
- Attenuation (influenced by ground type)
- Screening

7.0 Controls Measures

Best available techniques shall be used to prevent, or where that is not practicable, reduce emissions from the activities. To minimise potential generation of noise from the site, the following preventative or reactive control measures shall be implemented:

7.1 Transportation / Vehicle Movements

- Movement of mobile plant and site traffic shall be restricted to defined haul routes which are sufficiently surfaced and maintained
- A site speed limit of 10mph will be enforced for all vehicles
- Engines to be turned off when idling
- Sensitive scheduling of deliveries/collections to avoid unsociable hours (where possible)

7.2 Materials Handling

- Minimise drop heights
- Trained competent staff operating plant and supervising deliveries/collections
- Careful management of stock levels and production schedules to minimise double handling of materials

7.3 Maintenance

- Regular maintenance service and inspections in accordance with company procedure: HM-P-0014.
- Pre-start checks shall be carried out for mobile and fixed plant as per company procedure HM-P-0027, to identify any defects that could affect the environment.
- All servicing and maintenance to be undertaken by suitability trained persons

7.4 Adverse Weather / Plant Failure

- Activity may be ceased during high winds particularly when the prevailing wind direction is towards potentially sensitive receptors near the site.
- The plant can be stopped almost immediately in the event of equipment failure or operational upset, so there is a low risk of prolonged excessive emissions.

7.4 General

- Plant /equipment compliant with EU noise emission limits
- Covered screens and conveyors, fixed plant clad to reduce noise
- Fans rated for required demand
- Plant operated in accordance with manufacturer's instructions/operating procedures
- Machinery/equipment powered down when not in use
- Daily site checks to include identification of excessive/unusual noise
- Operate within permitted working hours

8.0 Incident / Complaints Response

8.1 Record

All incidents and complaints must be recorded on the Harsco Incident Notification System (INS).

8.2 Notify

In the event of a permit breach, or if any activities on site cause an accident or incident which may or already has, significantly affected the environment the Environment Agency (EA) must be informed.

The site EHS Manager must be notified immediately of **all** incidents/complaints.

8.3 Investigate

All noise related incidents and complaints, whether observed by site personnel, the Regulator (EA), or the public must be investigated immediately by the Site Manager in accordance with Company Procedure HM-P-0017.

8.4 Act

The following actions must be taken:

- Establish the cause of the emissions
- Control emissions – where necessary cease activities
- Review operations and effectiveness of control measures
- Provide timely feedback to Regulator (EA) and complainants
- Inform and update all operators during pre-shift briefings.
- Record all corrective and preventative actions on the Action Capture System (ACS)

9.0 Monitoring

9.1 Daily checks

Checks for excessive and/or unusual noise must be undertaken daily by trained personnel with any observations recorded and retained onsite.

Where emissions or issues have been identified the Site Manager must be notified and Section 8 of this plan should be actioned accordingly.

10.0 Records

All incidents / complaints must be recorded on the Harsco Incident Notification System and all actions logged on the Action Capture System (ACS).

The plant operator shall keep records of inspections, tests and monitoring including visual inspections. The records should be:

- kept on site
- kept for at least 3 years
- made available for the regulator to examine

11.0 Reference Documents:

Noise Assessment REF: 13331-001-R2

Celsa Manufacturing (UK) Ltd. Environmental Permit EPR/TP3639BH

HM-P-0017 – Incident Reporting and Investigation

HM-P-0014 – Routine Maintenance, Servicing and Inspection
EM-P-0020 – Training, Awareness and Competence
HM-P-0027 – Equipment Pre-Start Checks