



TEES VALLEY ENERGY RECOVERY FACILITY



**CONSTRUCTION ENVIRONMENTAL
MANAGEMENT PLAN – ANNEX 3**

DUST MANAGEMENT PLAN

**GRANGETOWN PRARIE, GRANGETOWN,
REDCAR, TS6 6TY.**

**ECL Ref: ECL.007.04.01/CEMP-ANNEX.3
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ACRONYMS/TERMS USED IN THIS REPORT

CEMP	Construction Environmental Management Plan
CPP	Construction Phase Plan
ERF	Energy Recovery Facility
FCC	FCC Waste Services (UK) Limited
HGV	Heavy Goods Vehicle
HSE	Health, Safety, and Environment
HZI	Hitachi Zosen Inova

REVISION HISTORY

Revision Number	Sections Affected	Changes by	Reviewed by	Date
1.0	ALL	ECL	FCC	23.08.2021
2.0	1.2, 2	ECL	FCC	01.03.2023

1. INTRODUCTION

1.1. Overview

- 1.1.1. Condition 4 of the outline planning permission (Reference No: R/2019/0767/OOM) requires a Construction Environmental Management Plan (“CEMP”) to be prepared to support the delivery of the development proposals.
- 1.1.2. This document shall detail the methods to be used to control the emission of dust, mud and debris from construction works along with mitigation measures employed.
- 1.1.3. This document provides the information required to enable the above requirement of Conditions 4 i and 4 ii to be discharged.
- 1.1.4. A copy of this Dust Management Plan (“DMP”) shall be provided to all contractor and subcontractor representatives who are subsequently required to plan and execute their work in line with the requirements and measures outlined in the document.

1.2. Project Information

- 1.2.1. The project concerned is that of the Tees Valley Energy Recovery Facility (“ERF”) located at Grangetown Prairie, Grangetown, Redcar, TS6 6TY.
- 1.2.2. The nature of the project is the design, building, and commissioning of a new Energy Recovery Facility as described in detail in the CEMP (Document Reference, 50134216_1.0) and associated Construction Phase Plan (“CPP”) (Document Reference, 50134151_1.0).

2. RELATED DOCUMENTS

2.1.1. Table 1 provides further documents which should be read in conjunction with this DMP.

Table 1: Related Documents

Document Reference	Document Title
50134216_1.0	Construction Environmental Management Plan
50134151_1.0	Construction Phase Plan
To be provided prior to the commencement of construction on site.	Risk Assessment Creation Procedure
	Risk Assessment Evaluation Procedure
	Permit to Work
	Site Environmental Awareness Training
	Central HSE Toolbox Templates
	Environmental Inspection Template
	Monthly HSE Reporting Form

3. POTENTIAL DUST, MUD, AND DEBRIS SOURCES

3.1. Potential Sources

3.1.1. During the construction phase, there will be various works and activities undertaken, which have the potential to generate particle emissions arising from dust, mud, and debris. Potential during the construction phase have been identified as:

- site clearance;
- ground excavation, piling and earthworks;
- vehicle movements over haul roads;
- vehicle movements on site during dry periods;
- wind blowing across the site in dry periods;
- stockpiling of excavated materials;
- cutting, grinding and drilling operations;
- accidental spillage and loss of load from vehicles carrying loose material;
- tipping;
- emissions from site vehicles; and
- waste management practices.

4. CONSTRUCTION DUST, MUD, AND DEBRIS CONTROL

4.1. Overview and Responsibilities

- 4.1.1. Contractors are required to manage dust, mud, and debris emissions during the construction works to prevent the deposition of mud and debris on public roads and dust nuisance across the Development Site and wider local area.
- 4.1.2. It is the responsibility of contractors to keep a record of any exceptional incidents which cause dust to be emitted off site. HZI shall be informed of any such incidents as soon as is practicable.
- 4.1.3. Dust, mud, and debris control procedures will be implemented to avoid as far as is reasonably practicable, the emission of dust and other particulate that would adversely affect the air quality to ensure there is no significant deterioration of air quality as a result of construction works. Such procedures shall also be implemented to control the deposit of mud and debris on adjoining public roads and ensure that other road users are not impacted by the construction works.
- 4.1.4. As described in the CEMP, detailed construction method statements will be required by the contractors prior to the issue of a Permit to Work. A Permit to Work will only be issued if the Development Site Manager as well as an HSE (“Health, Safety, and Environment”) Advisor accept the documents produced by the contractor. The procedure is detailed in the following documents which will be provided following:
- Risk Assessment Creation Procedure;
 - Risk Assessment Evaluation Procedure; and
 - Permit to Work.
- 4.1.5. The detailed method statements provided by the contractors shall be in line with the generic mitigation measures set out below.

4.2. Control of Dust, Mud and Debris from Construction Plant and Vehicles

- 4.2.1. Measures shall be implemented to limit emissions from construction plant and vehicles. Measures shall include:
- all construction traffic shall follow specially designated routes;
 - all temporary roads shall be compacted to allow haulage of Heavy Goods Vehicles (“HGVs”);
 - movement of construction traffic around the site shall be controlled and kept to the minimum reasonable for the effective and efficient operation of the Development Site and construction of the development;
 - vehicles and plant shall be switched off and secured when not in use. No vehicles or plant shall be left idling;
 - low emission vehicles and plant shall be fitted with catalysts, diesel particulate filters or similar devices and ultra-low sulphur diesel shall be used where reasonably practicable;
 - vehicles, plant, and equipment maintenance records shall be kept on the Development Site and shall be reviewed regularly;

- the use of diesel or petrol powered generators shall be reduced by using mains electricity or battery powered equipment where reasonably practicable;
- dust suppression shall be reviewed and actioned daily during dry and/or windy periods with non potable water used for dampening where practicable;
- excavated material to be carted away will be loaded using minimum drop heights from excavators into vehicles involved in the transport of excavated material;
- bulk cement and other fine powder materials shall be delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent the escape of material and overfilling during delivery;
- cutting and grinding operations will be conducted using equipment and techniques which reduce emissions and incorporate appropriate particle suppression measures; and
- devices such as dust extractor, filters, and collectors will be used on drilling and sawing equipment.

4.3. Control of Dust, Mud, and Debris Emissions from Material Transportation Off-Site

4.3.1. The unloading, storage, and handling of construction materials can be a significant source of dust, mud, and debris emissions. Dust and air quality management measures will be implemented to limit pollution arising from the transportation and storage of materials, including the following:

- Development Site vehicles will be speed restricted to a maximum of 10 mph;
- a wheel wash facility will be available and mandated during adverse traffic conditions on site i.e. muddy roads. Alternative means will be provided for vehicles that cannot use the wheel wash;
- a road sweeper will be used throughout the period of the excavation works to ensure that all public roads are clear of mud and debris that may be tracked out of site, or cause issues during dry periods;
- road sweepers/bowsers will be in place in order to limit dust/clean roads on site;
- covering materials, deliveries or loads entering and leaving the construction site for the purposes of preventing materials, mud, dust, and debris spillage; and
- vehicles transporting materials within or outside the construction site will not be overloaded.

4.4. Control of Dust from Stockpiles

4.4.1. Mitigation measures for stockpiles for instance of aggregate, soils etc., shall be as follows:

- stockpiles and mounds will be kept away from sensitive receptors where reasonably practicable and sited to take into account the predominant wind direction relative to sensitive receptors (e.g. rail track);
- stockpiles are to be located away from watercourses and drainage system, and surface water will be directed away from stockpiles;
- materials stockpiles likely to generate dust will be enclosed or securely sheeted, kept watered or stabilised as appropriate;
- aggregates shall be stored in bunded areas and will not be allowed to dry out, unless this is required for a particular construction process;
- for small supplies of fine powder materials, bags shall be sealed after used and stored appropriately;

- steep side stockpiles will be avoided where practicable
- material stock piles exceeding 6 months will be seeded or covered;
- height of stockpiles will be managed and kept as low as reasonably practicable;
- material drop heights will be minimised;
- fine dry material will be stored inside buildings or enclosures with measures in place to ensure no escape of material and of overfilling during delivery;
- mixing of large quantities of concrete will be undertaken in enclosed areas or shielded;
- the number of handling operations for materials will be kept to the minimum reasonably practicable; and
- bonfires and the use of fire for burning waste materials shall not be permitted at any time.

4.5. Training

- 4.5.1. All Development Site personnel shall receive training appropriate to the nature of their roles and responsibility. Training shall include specific information in relation to the management of dust, mud, and debris.
- 4.5.2. All staff will receive induction training that will incorporate environmental awareness training, plus specific training in relation to dust if their work activities are assessed as being particularly dust emission prone. On- site 'Tool Box' training will enable site workers to understand how their actions will interact with the environment.
- 4.5.3. Hitachi Zosen Inova (“HZI”) will arrange and deliver to relevant contractor individuals’ site specific training for, among others, risk assessment and the production and review of method statements.

5. MONITORING

5.1. Inspections

- 5.1.1. The Development Site HSE Advisor shall carry out daily and weekly on-site and off-site inspections as detailed in the CEMP. The frequency of inspections shall be increased during prolonged dry and / or windy conditions and when activities with a high potential to produce dust are being undertaken.
- 5.1.2. A formal inspection schedule from both the Central HSE Team and the Development Site Team shall be put in place as detailed in the CEMP with inspection results made available to the Local Authority at their request.
- 5.1.3. Any environmental complaints, incidents or deviations from this plan shall be recorded, along with the corrective actions. Any corrective action required shall be logged and tracked to completion with a log of complaints made available to the Local Authority at their request.

5.2. Community Liaison Group

- 5.2.1. The Community Liaison Group shall be informed of the measures undertaken in order to minimise the emission and/or deposition of dust, mud, and debris.
- 5.2.2. Further, the name and contact details of the Development Site HSE Advisor, the individual on the Development Site responsible for air quality and dust issues, will be displayed on a board at the Development Site Boundary should any air quality or dust issues arise.