

Hill Street, Elsecar, Barnsley

Planning Application No 2013/0223

Dust Management Plan

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1. **SITE CONDITIONS**

1.1 **Site Location**

The site is located on the south western side of Hill Street with its north western boundary adjacent to the railway line. It is approximately 0.853 hectares in area and as a long boundary adjacent to the railway line with only a relatively short frontage to Hill Street. To the South of the site is an area of open ground and on the opposite side of Hill Street is a mixture of residential and commercial uses.

1.2 **Process Description**

Soil and overburden will be stripped separately in accordance with the phased programme and the principles for soils handling for later use in restoration.

The ash will be excavated from the area by a tracked 360° excavator that will also load the material if necessary in to the power screed that will also load the material from stockpiles into road haulage vehicles for transport off site. All HGV's will be sheeted prior to leaving site.

A road sweeper will be provided for vehicles leaving the site to ensure roads are kept clean at all times.

Restoration of the site will be undertaken by imported backfill material. All soil stripped from the site during the preparation works will be reutilised to achieve the final restoration design.

1.3 **Potential Dust Sources**

The potential operations for dust to be generated that could cause a nuisance, By not following on-site activities the potential to cause significant fugitive emissions of dust can arise from;

- (a) soil and overburden removal, handling and storage;
- (b) ash extraction operations;
- (c) material processing;
- (d) material handling and loading operations;
- (e) the movement of vehicles on site roads;

2 **OPERATIONAL DUST MEASURES**

2.1 **Overview**

Mr Monfredi recognises the potential for ash workings to generate dust nuisance and has expressed a committed to operating the site in accordance with current best practice. By implementing best practice measures to control and mitigate the

generation and transportation of dust, it is considered that dust emissions from the site can be adequately controlled.

The objective of this scheme is to minimise the visible release of airborne dusts and particles arising from ash extraction and related activities onto public areas outside the site, and to prevent releases in such quantities or concentrations that are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality.

2.2 **MANAGEMENT RESPONSIBILITY**

Site Management and Supervision

The site Manager is the designated individual with the responsibility for ensuring that the Dust Management Plan is enforced on site, and its contents are communicated to all employees and contractors working on site as part of the induction procedure.

Should an off-site complaint be received about fugitive dust emissions, it is the site manager's responsibility to investigate the cause and take corrective action where necessary in line with the Action Plan outlined in Section 5 of this document.

Training, Awareness and Competence

- (a) staff at all levels will be provided with the necessary training and instruction in operational control procedures to control emissions; and
- (b) training, awareness and competence will be evaluated on a routine basis to ensure ongoing effectiveness;

Maintenance

A written programme of maintenance will be developed and implemented for all aspects of the process. Maintenance will include:

- (a) routine scheduled inspections;
- (b) preventative maintenance activities; and
- (c) reactive maintenance activities in the event of any plant breakdown – this will be minimised at all times;

2.3 **Control Measure – Soil removal and handling operations**

Soil and overburden removal will be undertaken by the operator or nominated contractor. Stripping operations will utilise an excavator, loading shovel and

dumper with the materials being placed in temporary storage mounds or screening bunds.

Dust control and mitigation measures for this area of operation include:

- (a) should dust emissions be generated in extremely dry periods then suppression will be facilitated by use of mobile spray units;
- (b) soils and overburden placed on temporary storage mounds or screening bunds will be seeded as soon as practicable to prevent the generation of dust emissions;
- (c) soil handling will be restricted in adverse weather conditions (e.g high winds);
- (d) access to storage areas by machinery shall be restricted other than for the purpose of mound construction and maintenance;
- (e) double handling of stripped materials will be minimised wherever possible;

2.4 Control Measure – Ash extraction

The ash will be excavated from the area by tracked 360° hydraulic excavator, that will load the material (if needed) into the power screed, that will load the ash from stockpiles into road haulage vehicles.

Dust control and mitigation measures for this area of operation include:

- (a) equipment will be appropriate for the task for which it is being used, maintained in good working order, and operated according to the manufacture's instructions;
- (b) during extraction/screening operations with the potential to cause significant dust emissions, or during adverse weather conditions, the area being worked will be kept damp by regular application of water via water bowser or similar;
- (c) extracted material will be transferred directly to road haulage vehicles wherever possible to minimise double-handling;
- (d) handling operations will be kept to a minimum to avoid unnecessary emissions of dust;
- (e) temporary stockpiles will be located with regard to sensitive areas wherever possible, taking account of prevailing wind conditions;

- (f) dampening of temporary stockpiles and exposed areas will be carried out where necessary to minimise the wind entrainment of dust;

2.5 **Control Measure – Materials handling and storage**

The excavated material will be placed into temporary stockpiles using the tracked hydraulic excavator.

- (a) during stockpiling operations with the potential to cause significant dust emissions, or during adverse weather conditions, the area being worked will be kept damp by regular application of water via water bowser or similar;
- (b) handling operations will be kept to minimum to avoid unnecessary emissions of dust;
- (c) temporary stockpiles will be located with regard to sensitive areas wherever possible, taking account of prevailing wind conditions;

2.6 **Control Measure – Roads and traffic management**

Vehicle Speed limits

Speed restrictions of 10mph will be imposed for all vehicles driving on the site, in order to minimise emissions of dust from internal road surfaces.

Dust Suppression

During dry conditions, the potential for dust emissions is increased and may potentially impact on the amenity of neighbours, visitors or employees. During such periods an appropriate dust suppression technique will be employed on internal roads, working areas and stockpiles. The technique to be utilised at the site will be a mobile bowser spray unit.

Water supplies for the mobile spray bowser unit will be sourced from within the site.

Sweeping of Access Road and Highway

The main tarmac access road in the vicinity of the site entrance area will be swept with a mechanical road sweeper when dust is at a level which constitutes a nuisance potential.

A mechanical road sweeper will also be used on public highways in the immediate vicinity of the site, if necessary, to ensure the road surface remains

clean. The frequency of use of a sweeper is determined by the site Manager, based on weather and road conditions.

Prevention of Dust Generation from Vehicle Movements

- (a) Vehicles leaving the site will be adequately sheeted or otherwise contained prior to exiting the site onto the public road;

Design and Maintenance of Roads

- (a) internal un-surfaced haul roads will be well maintained and compacted, to minimise spillage from vehicles and dust emission from loose and uneven surfaces; and
- (b) internal roads will be designed to avoid sharp corners and steep gradients that would encourage sharp braking;

3. Monitoring and Recording Protocol

3.1 Visual Monitoring and Recording

It is the responsibility of all site personnel to maintain a visual awareness of dust emissions during the working day. Any significant dust emission occurring with the potential to travel beyond the site boundary will be reported to the site Manager, who will be responsible for investigating the cause and taking immediate action to minimise further emissions. If necessary, site operations will be halted until appropriate remedial action is completed.

The Site Manager or nominated employee will inspect the site boundary and/or location of sensitive receptors relative to wind direction on a weekly basis to check for abnormal levels of on site dust creation and off site deposition. If this is found, the cause will be investigated and remedial action will be taken where necessary.

A log relating to the management of dust will be maintained by the site Manager. The information kept will include;

- Details of the source, date and time of any significant dust emission during site operations, along with an assessment of its likely impact;
- Details of complaints received; and
- Details of remedial action taken and changes made to operational procedures, in order to eliminate or minimise dust emissions;

4. **Dust Action Plan**

4.1 **Introduction**

If during routine visual monitoring, significant volumes of airborne dust are identified, or dust is being produced with potential to affect sensitive areas and cross the site boundary the actions detailed within this section will be taken:

4.2 **Ash Extraction and Materials Handling**

- Take immediate steps to establish the cause of the abnormal emissions;
- Cease operations until corrective action can be taken, or adverse weather conditions change;
- Implement corrective action, such as the use of water sprays, or temporarily relocate the area of work until the wind direction or other adverse weather conditions change;
- Enter action into site log book;

4.3 **Vehicle Movements**

- establish the cause of the abnormal emissions;
- implement corrective action, such as the use of water bowser on dusty area of road or repair to a damaged haul road surface;
- If relevant, organise road sweeping of tarmac or other hard surfaces;
- Ensure vehicles are obeying the site speed limit;
- Enter actions into site log book;