

Dust Management Plan – Greenhead College, DfE

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1.0 INTRODUCTION

The purpose of the Dust Management Plan is to identify fugitive dust sources at the site, and to describe the control measures to be implemented during the project.

The Plan includes:

- Consideration of all the potential dust producing activities at this site, including during the construction phase;
- An understanding of the receptors that may be affected by the site activities;
- The dust control measures that will be implemented to minimise the risk of polluting any of the receptors;

The site susceptibility to create dust during the construction phase is considered to be 'Medium'. A medium rating has been determined by taking into consideration the potential impacts which may be expected during the construction phase, in accordance with The Institute of Air Quality Management 'Guidance on the Assessment of Dust from Demolition and Construction', 2014.

2.0 PROJECT INFORMATION

Project Name	<i>Greenhead College</i>
Project Number	<i>NE8659</i>
Client	<i>Department for Education</i>
Principal Contractor	<i>Galliford Try</i>
Person Responsible for updating this Pollution Control Plan	<i>Matt Naylor</i>
Role in the Project	<i>Operations Manager</i>
Construction Timeframe	<i>158 Week Programme</i>

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3.0 DISTRIBUTION & REVIEW

3.1 Distribution

This Dust Management Plan must be kept on site at all times. The controlled copy, held by the *Project Manager*, must be available for members of the *Galliford Try* workforce, subcontractors and Client.

The controlled copy of this Dust Management Plan is held by:

Name	Position	Company
<i>Matt Naylor</i>	<i>Operations Manager</i>	<i>Gallifordtry</i>
<i>TBC</i>	<i>Project Manager</i>	<i>Gallifordtry</i>

Each subcontractor must be familiar with the control measures and procedures outlined in this Plan.

Uncontrolled copies of this Plan have been distributed to the following:

Name	Position	Company
<i>TBC</i>	<i>TBC</i>	<i>TBC</i>
<i>TBC</i>	<i>TBC</i>	<i>TBC</i>
<i>TBC</i>	<i>TBC</i>	<i>TBC</i>

Based on the current programme we anticipate the first 8-10 weeks of the construction programme we will review the plan and amend this weekly to suit the activities on site. Once the frame has been erected we would expect this to reduce to 4 weekly, this would be in line with our monthly internal Site Safety and Environmental Reports (SSER) which are carried out by our HS&E inspectors

[illegible]

4.0 POTENTIAL RECEPTORS THAT MAY BE AFFECTED BY DUST EMISSIONS FROM THE SITE

The potential receptors on this project are contained in the following table:

Receptor, Name (if appropriate) and Location	Expected Duration
Visitors to the GT offices and site during working hours, generally for short periods only/temporary.	- Initial 30 weeks of the programme to allow GF slab construction and turning circle, this includes the works to construct the new car park on the west of the site. - Weeks 99-116 (Jan 2024 – March 2024) for building demolition. - See construction phase plan for working hours
Workers occupied in construction works at the site.	
Occupants of Greenhead College, surrounding residents and visitors to Greenhead Park. Residential properties surround the site to the east, south and west within 50m.	
Traffic users on surrounding roads Park Drive South, Greenhead Road and Park Avenue	

4.1 Weather Monitoring

The impact weather can have on the movement or generation of dust can be underestimated and our standard procedure would be to record all weather conditions daily in our site diaries. The information recorded along with daily review of the forecast will be considered and any actions proactively planned to deal with the risks of excessive dust leaving site. The person responsible for this will be the site manager who will report actions to the Project Manager and HS&E manager for action/advice.

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5.0 POTENTIAL DUST GENERATING ACTIVITIES AT THE SITE

It is anticipated that the following activities have the potential to cause dust from construction operations on this Project. They are summarised in the following table with a brief explanation of each activity with regards to dust generation.

Activity and Sources of Dust	Construction Phase - Description of Activity
Demolition of existing structures	Demolition of existing buildings – Main Hall, Social Hall and Science building (not until Jan 2024).
Earthworks – Stripping and levelling – removal of tarmac	The working area is approximately 4000 m ² . See construction phase plan for working hours. Only the building footprint will be stripped, all other surrounding areas not affected by the Tarmac will be retained.
Ground levelling, excavations, trenching and earthmoving	Preparation for construction of buildings, drainage system, access roads to public highway and preparation for hardstanding areas e.g. parking areas. Preparation of vegetated areas.
Construction of buildings, site drainage system, hardstanding area, and access road	This will involve bringing in, tipping and spreading of materials on-site; concrete tipping and levelling; bulk storage of construction materials; use and movement of above-ground plant including tele-handlers; road construction.
Material cutting e.g. concrete/paving/stone	Most materials will be brought in to specified sizes and this activity will be limited to an occasional requirement to cut materials to size for final fitting and installation.
Tracking of mud and dirt	Removal of dirt and mud from the construction site to the public highway network. This will be mitigated by retaining the tarmac on site
Removal of waste materials from site, pre-operational clean-up, removal of	Once construction has been completed, the site will be cleaned and made tidy (phased as needed to deliver the scheme). Dust generation will be minimal and primarily created from

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construction plant.

travel movements and dust sweeping activities.

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6.0 DUST EMISSION PREVENTION MEASURES

The following tables summarise the measures that will be carried out to prevent dust emissions during construction activities.

Emissions to Air		
Location	Site operation	Prevention Measures
Site Wide	Plant Usage	Properly maintained plant with daily checks.

Dust		
Location	Site Operation	Prevention Measures
Site	Earthworks – Specific Measures	- Soils (e.g. grassed) should be removed only when working of the area is required. To maintain a sealed surface for as long as possible. - Revegetate earthworks and exposed areas/soils to stabilise and seal the surface as soon as practicable.
Site	Construction – Specific Measures	- Avoid scrabbling of the concrete if possible. - Ensure sand and other aggregates are stored in bunded areas and not allowed to dry out, unless this is required for a specific process or operation. - Seal and store fine powder materials to prevent dust escape e.g. closing concrete bags.
Site/Public Highway	Tracking of Dirt/Mud – Specific Measures	- All heavy duty vehicles leaving site to be fully sheeted. - No materials shall be kept in open topped heavy duty vehicles after the site closes, each day. - Dry sweeping of large areas will be avoided. - Bulk storage of materials will be located in designated areas on site and a “just-in-time” delivery system will be instituted so that storage of materials on-site is kept to a

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		minimum. • The holding / cleaning area will be maintained during construction so that any vehicles visiting site will be using a clean road. • As delivery vehicles leave site, they will be checked by a site operative and any debris or mud will be removed via jet wash to ensure vehicles are clean as they leave site. • As required, a mechanical road brush will maintain the general cleanliness of the access roads and holding areas. • Surface water runoff from the site to the public highway will be avoided.
Site	Various/all as described in Section 4.0	• Although site traffic is unlikely to pick up speed due to the size of the site, a speed limit of 10mph shall be adhered to. • Bulk cement and other fine powder materials will be delivered in enclosed tankers. • Daily check of site activities by <i>Site Manager</i> • Dust and dust activities to be dampened with water as and when necessary particularly during dry periods. • Erection of fencing around the site boundary. The need for enclosed fencing around individual dust generating activities (long term and short term) will be determined by the appointed person in Section 2, in consideration of the potential for dust to be generated. • Dry sweeping of tarmacked areas will be avoided during windy conditions. • Water applied to surface areas during dry and windy weather, namely tarmacked areas. • Storage piles of bulk materials including soils will be covered and anchored in a manner that prevents the cover being removed by wind action. • Visual checks on wheels and body of HGVs leaving site to prevent mud (and then dust) being carried off site. • No bonfires. • No idling of construction traffic or plant, switch off engines when not in use. • Training for all construction and operational staff including tool-box talks on prevention

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		of emissions from the site before construction works begin. • Recording of all dust complaints in order to identify causes and take appropriate measures to reduce emissions to acceptable levels. • An Environmental log-book or hard copy diary will be kept on-site to record: visual checks, plant maintenance checks, daily weather information, date, time, road sweeper times, complaints and any information regarding additional dust mitigation taken that differs from day to day operation. The log-book will be available to the Local Authority upon request.
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7.0 DUST EMISSIONS RESPONSE MEASURES

Should dust emission prevention measures not prevent significant dust emissions, the following measures are in place to ensure that dust control measures are enhanced and adequately controlled to the satisfaction of the Local Authority.

Emissions to Air		
Location	Site operation	Response Measures
Site Wide	Plant Usage	• Relevant item of plant shall be stopped immediately • A fitter shall be called to inspect the item of plant.

Dust Emissions		
Location	Site operation	Response Measures
Site	Various Site Management.	• Daily visual checks and additional checks during adverse dust generating conditions by the appointed person in Section 2 of this dust management plan. • Increased dust suppression using water/bowsers in adverse dust generation circumstances (i.e. high winds or dust visually seen blowing from site). • Suspension or ceasing operations until the high wind conditions have subsided. • Provision of Personal Protective Equipment (PPE) such as approved dust masks, to be used by operators in the events that dust emissions are accidentally generated. • Ensuring personnel and operatives are advised of their roles to minimise the generation of dust. • Deploy suitable dust mitigation measures based on visual observation, log book records and weather conditions. • Review the performance of the operatives and efficiency of dust reduction measures.

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		• Ensure that records are maintained. • Ensure that equipment is maintained. • Liaise and respond to all external complaints in a timely manner and resolve as appropriate.
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7.1 Monitoring Dust

In dry, windy conditions particulates can be lifted from open or disturbed areas resulting in visible dust emissions. Most airborne particulates that originate from these sources are larger than PM10 and are associated with nuisance rather than public health problems

We will operate at least two dedicated water sprayers during dry, windy conditions and during the summer months, across the site to apply water to unsealed operational areas (i.e. roads and loading areas). All unsealed roads being used for heavy vehicle traffic will be treated daily with water suppression and vehicles tyres will be jet washed before leaving site.

8.0 Complaints

In the event that any complaints are received regarding dust, details of the complaint will be logged in the environmental log-book and potential sources or occurrences on site will be investigated. Records of all complaints and remedial action will be held on site within the dedicated log book. The Dust Management plan will be reviewed and adequately updated to deal with the source behind the complaint and the review frequency increased to ensure no more failures occur, this will be done with support from our HS&E inspector

In the event that the primary dust control measures fail or are insufficient during conditions of high wind and dust is visibly being transported off site, works shall be suspended until a time when wind conditions lessen or the dust control measures adequately stop dust transportation off site.

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The results of the complaint investigation and the measures taken to resolve the complaint will be made available to the Local Authority upon request.