



**Eastland**  
Port

# **Dust Management**

## **62 Dunstan Road Aggregate Yard**

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# 1 Introduction

This Dust Management Plan is required by condition of resource consent to address the potential dust generated from construction activities associated with the upgrade of the development of the Dunstan Road Aggregate Yard and shall be read in conjunction with Environmental Management Plan. This plan addresses the proposed control measures associated with the construction of the Dunstan Road Aggregate Yard Development.

## 2 Location of the Works

The project site is located at 62 Dunstan Rd, Matawhero; situated behind Fulton Hogan's aggregate storage yard and bounded by a mixture of agricultural farming and storage yards. The site is bordered by Fulton Hogan to the East, the Waipoa River stop bank to the West and private properties to the remaining boundaries.

## 3 Programme

The works detailed in this plan are programmed to commence in November 2019 and through to the late first quarter of 2020.

## 4 Description of Works and Construction Methodology

This Dust Management Plan details the works associated with the development of the Dunstan Road Aggregate Yard.

The works are essentially stripping of topsoil, development of swales and sediment controls and the importation of approximately 15,000m<sup>3</sup> of removed from Eastland Port.

Final surface will be permanently stabilised and have a capping layer of gravel.

## 5 Monitoring and Maintenance

This project has the potential to generate dust as a result of the following types of work:

- Excavation / Earthworks
- Stockpiling and sorting materials
- Transportation of material
- Materials placement and compaction

The Dust Management Plan includes performance standards, controls, monitoring and reporting requirements and contingency measures.

The Environmental Manager will be responsible for monitoring and reporting on dust levels should they be required as part of these works.



## 5.1 Environmental risk assessment

**Table 5-1 Environmental risk assessment, noise and vibration**

	Type of Work			
	Excavation/ Earthwork	Stockpiling and sorting of materials	Transportation of material	Material placement & compaction
Dust Risk	Low	Low	Low	Low

The overall dust risk for this project has been assessed as low based on the proximity to nearest residential property and existing site operations and access to mitigation measures.

The work activities are assessed as having no sensitive properties identified within the vicinity of the work site. Low sensitivity receiving environments are identified as residential neighbours greater than 100m from the work site.

## 5.2 Performance Standards

All work to be undertaken in a manner that ensures compliance with all regulatory requirements. All construction works and equipment should be operated, maintained, supervised, monitored and controlled at all times, so that all emissions are maintained at the minimum practicable level.

The performance standards listed in this Section are specific to dust.

Site works have been assessed as low risk. The performance standards to be met for an insensitive area is defined as total suspended particles (dust concentration) of 120 ug/m<sup>3</sup> (fixed 24-hour average). Representative sampling and monitoring by a suitably qualified person shall be undertaken should notable concentrations of dust be seen leaving site over a period likely to cause harm or considered objectionable and/or a complaint received on reasonable grounds as an appropriate action item.

The discharge to air of dust shall not be corrosive, noxious, dangerous, objectionable, or offensive to the extent that it has or is likely to cause an adverse effect on the environment beyond the boundary of the site where the discharge originates.

Where the dust limits cannot be achieved, enhanced management will be required to mitigate dust effects and approval will be obtained from the Environment Manager prior to the commencement of the type of work.

## 5.3 Control Measures

Works are proposed in low risk sensitive environments. Wherever practicable Eastland Port will implement the following dust control principles to ensure performance standards are met.

These being;

- Staging of works to limit areas of disturbance, works to commence November 2019
- Stabilise areas as soon as practicable with pavements and vegetation
- Maintain surface moisture content within stockpile and exposed areas
- Maintain soil moisture content within truck loads



- Wherever possible use trucks fitted with covers for material transportation
- Trucks carting to waste shall use nominated haul route
- Site specific erosion & sediment control devices
- Stabilised (paved) running surface and water suppression
- Refer to Contaminated Soils Action Plan for treatment and assessment of potentially contaminated soils (Note: majority of site low hazard)
- Sweeping and cleaning of site exit road
- Reduced speed environment within project boundary
- Weather monitoring and action planning

### 5.3.1 Administrative Controls

- A key aspect of this dust management plan is stakeholder engagement. The site contact for the public for the duration of the works will be the project manager. There will be the following communication with the community regarding construction noise issues:
- There will always be a contact person available on site, and their contact details will be prominently displayed at the entrance to the site so that they are clearly visible to the public/Eastland Port.
- Individual notification will be provided, and meetings offered to all interested parties requiring further information or updates on the progress of the works.
- Neighbours will be informed of the proposed timing of specific works which may cause some concern amongst the local communities.

### 5.3.2 Engineering Controls

Summary of controls

<b>Type of work</b>	<b>Dust Risk</b>	<b>Control</b>
<b>Excavation/ Earthworks</b>	Low	<p>Limit the area of soil exposed by staging works and stabilising disturbed areas as soon as practicable once works are complete.</p> <p>Limit the extent of earthworks during dry windy conditions to the smallest extent practicable.</p> <p>Retain as much vegetation on site as practicable on areas not under development.</p> <p>Ensure water is available to dampen down stockpiles and earthworks near sensitive environments.</p>
<b>Stockpiling and sorting of materials</b>	Low	<p>Locate stockpiles in sheltered areas of site away from potential sensitive areas and predominate wind directions where practicable.</p>



<b>Type of work</b>	<b>Dust Risk</b>	<b>Control</b>
		Ensure water is available to dampen down stockpiles, and cover if possible.
<b>Transportation of material</b>	Low	Ensure water is available to dampen down haul route within project boundary Reduce speed limits during dry windy conditions. Use trucks with covers wherever possible Ensure material is in a dampened state prior to leaving site
<b>Material placement &amp; compaction</b>	Low	Ensure water is available to dampen down work area Limit loading/unloading of trucks during dry windy conditions.

### 5.3.3 Ongoing Assessment

While a preliminary assessment has been performed as part of the risk assessment, for each significant type of work, dust will be assessed against compliance standards, which will identify any controls specific to the type of work to mitigate any areas of concern.

## 5.4 Monitoring and Reporting

Monitoring and reporting actions below have been assigned to the Environmental Manager who will take responsibility for ensuring all actions are implemented.

Monitoring and reporting requirements for dust have been specified below.

### 5.4.1 Monitoring

#### **Meteorological Forecasts**

Weather forecasts will be monitored daily (wind speed and direction, and rainfall) to assist in managing site works and implementing the appropriate dust controls.

Eastland Port will have access to Kestrel portable wind meters which will assist with determining localised wind speed and direction conditions.

#### **Dust Monitoring**

Visual assessments of dust will be undertaken daily (or more frequently in dry/windy conditions) as per the stated dust monitoring programme below. The results of the dust monitoring programme will be logged using the monitoring inspection sheet Daily Dust Inspection Log.

#### **Dust Monitoring Programme**

<b>Monitoring Activities</b>	<b>Frequency</b>
Check weather forecasts for strong winds and rainfall to plan appropriate activities and dust management response in advance.	Daily



Observe weather conditions, wind via observations and data outputs from weather stations, and presence of rain.	Daily and as conditions change	
Visual inspections shall be made of all active construction areas, whenever there are construction activities.	Daily and increase to three times daily during dry months	
Inspect land adjacent to the site (including vegetation, plant and equipment and coal stockyard), for the presence of dust deposition.	Daily and as conditions change	
Inspect all exposed soils and unsealed surfaces for dampness and to ensure that surface exposure is minimised.	Daily and as conditions change	
Inspect dusty activities effectively controlled.	Daily and as new activities are commenced	
Inspect stockpiles to ensure enclosure, covering, stabilisation or dampness. Ensure stockpile height is less than 3m or appropriately stabilised.	Daily and as conditions change	
Monitor dust generating activities and controls, including water application rates.	In winds over 5.5 (20km/h or 11 knots)	m/s
Inspect watering systems (sprays and water carts) to ensure equipment is maintained and functioning to effectively dampen exposed areas.	Weekly	

### Dust Complaints / Incidents

Eastland Port will maintain a communications and complaints register for the project which will keep a log of all dust complaints from the public. The register will include the nature of the complaint, location and time of complaint and identified cause, along with measures to reduce emissions.

All dust related incidents will be recorded on a risk manager incident form and will include the location and time of the incident, the identified cause, the environmental effect, along with measures to reduce emissions for future like events.

GDC, as regulator, to be provided with quarterly update report on complaints received and status thereof.

#### 5.4.2 Reporting

Inspection sheets for visual assessment of dust to be sent to Eastland Port Project Manager weekly. Eastland Port Project Manager must be made aware of any complaints and incidents within 24 hours.

### 5.5 Contingency

In the event that work activities are causing discharges to air of dust that are objectionable or offensive to the extent that it has or is likely to cause an adverse effect on the environment beyond the boundary of the site where the discharge originates, works will be stopped until ideal weather conditions prevail or until an alternative work methodology is established which reduces any risk of non-compliance.



## End of document

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