

Air Quality and Dust Management Procedure

DOCUMENT INFORMATION

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REVISION

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AW EDWARDS acknowledges the Traditional Owners of Country throughout Australia and recognises the continuing connection to lands, waters and communities.
We pay our respect to Aboriginal and Torres Strait Islander people and culture, and to their Elders past and present.

“COMMUNITY”
Artwork by Raechel Saunders

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1 DOCUMENT PURPOSE

The purpose of this air quality and dust management procedure is to minimise potential air quality and dust related impacts on receivers adjacent to and near the construction site.

2 CONSTRUCTION OVERVIEW

Construction activities which have the potential to generate dust of the station broadly includes:

- Structure;
- Fit out;
- Services;
- External works;
- Landscaping;
- Over station development enabling works; and
- Testing and commissioning.

3 POTENTIAL IMPACTS

The following adverse impacts may arise in the event of dust generation during construction activities:

- Dust and vehicle emissions can have health impacts to residents, commuters and people working in the vicinity of the construction site.
- Dust can cause damage to personal and public property and may lead to extensive cleaning requirements and community complaints.
- Dust and vehicle emissions can result in odours that some people may be sensitive to.

4 AIR QUALITY ENVIRONMENTAL PERFORMANCE OUTCOMES AND MANAGEMENT OBJECTIVES

The Chatswood to Sydenham Submissions and Preferred Infrastructure Report identified the following environmental performance outcomes for construction:

- Dust and exhaust emissions during construction would be minimised.

The Chatswood to Sydenham Construction Environmental Management Framework identifies the following air quality management objectives for construction:

- Minimise gaseous and particulate pollutant emissions from construction activities as far as feasible and reasonable.
- Identify and control potential dust and air pollutant sources.

5 ROLES AND RESPONSIBILITIES

A summary of the specific responsibilities for air quality management specific to each role are specified in Table 5.1.

5.1 Summary of roles and responsibilities

ACTION	RESPONSIBILITY
<ul style="list-style-type: none"> ▪ Performance and compliance with the CEMP and air quality and dust management procedure. 	<p>Construction Manager</p>
<ul style="list-style-type: none"> ▪ Daily weather monitoring ▪ Visual inspections to determine if mitigation measures are needed or successful ▪ Implementation of environmental mitigation measures ▪ Recording implementation of mitigation measures 	<p>Planning & Environment Manager Site Supervisor</p>
<ul style="list-style-type: none"> ▪ Environmental monitoring and visual inspections ▪ Recording and reporting on effectiveness of mitigation measures 	<p>Environmental Coordinator</p>
<ul style="list-style-type: none"> ▪ Deal with complaints in a responsive manner so that stakeholders' concerns are managed effectively and promptly. ▪ A verbal response will be provided to the complainant as soon as possible and within a maximum of two hours from the time of the complaint. ▪ A detailed written response will then be provided, if required, to the complainant within one week. 	<p>Community Engagement Manager</p>

6 MITIGATION AND MANAGEMENT MEASURES

The following mitigation and management measures would be implemented during construction to minimise the potential for dust generation and adverse air quality impacts:

- Regularly dampen unsurfaced haul routes and work areas in dry and windy conditions.
- Fully cover all vehicles carrying loose or potentially dusty material to or from the site.
- Manage stockpiles to minimise dust generation, adopting measures such as covering or stabilising this material.
- Switch off the engines of all on-site vehicles and plant when not in use for an extended period.
- Regularly maintain and servicing plant to minimise emissions, considering emissions from plant as part of pre-acceptance checks.
- Consider air quality impacts to neighbouring receivers when planning for and constructing the site layout and placement of plant.
- Minimise the tracking of dirt / dust onto public roads by stabilising site access and egress point, using street sweepers where required.
- Construction hoardings and scaffolding will be regularly inspected and kept clean and free of dust build up.

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- Water suppression will be used for active earthwork areas, stockpiles, unsurfaced haul roads and loads of soil being transported to reduce wind-blown dust emissions;
- Wheel-wash facilities or rumble grids will be provided and used near the site exit points, as appropriate.
- Use hoses, water guns and sprinklers as required to aid in dust suppression.
- Implement use of water during saw cutting activities to minimise the potential for dust generation.
- No fires or burning of materials on site is permitted.
- Maintain gaseous plant and equipment (e.g. refrigeration systems, fire suppression systems regularly to prevent the inadvertent release of gases to the atmosphere.

7 MONITORING AND RECORD MANAGEMENT

The following monitoring activities would be implemented during construction to monitor the effectiveness of mitigation and management measures and minimise the potential for adverse impacts to occur:

- Daily visual inspections for airborne dust leaving the site and dust deposition will be undertaken to assess the effectiveness of air quality controls.
- The Site supervisor will record daily weather conditions, specifically those conditions which may exacerbate air quality, for example hot, dry and windy conditions. Daily weather conditions will be included in the daily pre-start.
- The Environmental Coordinator will visually monitor daily construction activities (including dust generating activities, emissions from plant equipment and any excessive odours) to ensure air quality controls are effective.
- The Environmental Coordinator will distribute a weekly weather forecast to the project team, identifying any unfavourable conditions or additional air quality controls.

The following compliance records will be maintained by the Environmental Coordinator:

- Records of any meteorological condition monitoring.
- Records of any management measures implemented as a result of adverse, windy weather conditions.
- Records of air quality and dust inspections undertaken.

APPENDIX A: AIR QUALITY MANAGEMENT DIAGRAM

