



A water cart being used to help manage dust on the project

The new Grafton bridge project

Managing dust during construction – fact sheet – August 2017

The NSW Government is funding the new \$240 million Grafton bridge. Dust generated by the project can sometimes be a concern for the community. This fact sheet provides information about how dust is managed during the building process.

The process of building any major infrastructure project generates dust. Under the project's approved Construction Environmental Management Plan (CEMP), dust mitigation measures will be put in place throughout each phase of construction.



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Dust management measures

The project team uses a variety of measures to help reduce dust on the project, including:

- **Water spraying:** Water carts are used throughout the project to spray and damp down areas used regularly by heavy equipment and machinery
- Covering truck loads and stockpiles
- Using dust barriers on fencing around the project site
- Washing vehicle wheels before leaving the construction site
- **Adding fixatives:** Substances mixed with water to help it bind to dust particles and solidify. This means the particles are less likely to turn back into dust
- **Water additives:** These help to reduce the surface tension of water, which in turn helps it penetrate the soil so it doesn't evaporate as quickly
- **Dust binders:** Help the soil stick together and prevent small dust particles forming
- **Crusting agents:** These are used in areas of long-term stabilisation, where it forms a "crust" over the area. Crusting agents are used in areas such as stockpiles, batters etc. where there is no traffic
- **Monitoring:** Dust gauges are installed early in the project to establish existing background dust levels. Results from these gauges are measured monthly to determine the need for further mitigation.

We also aim to revegetate areas where dust may be an issue as soon as possible. This helps to minimise the presence of dust in the air.

How is dust measured?

Dust is measured via a series of dust gauges installed in urban areas outside of the project work boundary and close to the project. Gauges are located in 'dust catchment areas' which have been identified and approved in collaboration with the NSW Environment Protection Authority.

To ensure emissions are within allowable limits, dust is monitored over monthly periods. Records are assessed and if limits are exceeded the project team investigates options for further mitigation.

Compliance

The project is bound by the requirements of the Construction Air Quality Management Plan (CAQMP), which is part of the CEMP. The CAQMP states we will comply with its requirements through:

- **Training:** All employees, contractors and utility staff will undergo site induction training relating to air quality management issues. Targeted training will also be provided to staff with a key role in air quality management
- **Monitoring and inspection:** Regular monitoring and inspections will be carried out during construction. These will include daily visual monitoring, regular dust monitoring using gauges and meteorological monitoring.
- **Auditing and reporting:** Regular internal and external audits and reports will be done to assess the effectiveness of dust control measures.

Should observed or monitored dust levels exceed the required levels, the project team will review the activity, assess the controls and mitigation measures and potentially cease the activity where possible.

More information

For more information on the project please contact the Community Relations Team on **1800 918 759**.

Alternatively, email graftonbridgecommunity@fultonhogan.com.au; write to **PO Box 546 Grafton, NSW 2460** or visit the **Community Display Centre at the corner of Duke and Pound streets, Grafton**.

For more information on this project visit www.rms.nsw.gov.au/graftonbridge.

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