

capability statement

dust



P: +61 409 165 319

E: tracy@airqp.com.au

W: www.airqp.com.au

Air Quality Professionals offers specialist expertise in the measurement, analysis, prediction, and control of dust impacts from industrial, mining/quarrying, construction and agricultural activities

Dust deposition is the settling of dust onto surfaces. The effects of dust deposition can be subjective and are dependent on the sensitivity of the receiving environment. For example, dust fallout on a road or rural farmland may not be a nuisance even at relatively high deposition rates.

Typically, the most common areas of concern from dust deposition arise at residential properties or similar sensitive locations such as retail premises or schools. Nuisance impacts can include the visual soiling of clean surfaces, such as cars, window ledges, and household washing; and dust deposits on flowers, fruit or vegetables.



Dust comprises of a wide range of particle size fractions. Larger particles cause deposited dust and pose a nuisance risk. Finer material is defined as suspended particulate, and can travel large distances downwind and remain suspended in air for long periods. The portion that poses the greatest potential health effect is particulate less than $10\text{ }\mu\text{m}$ in diameter, and ambient concentrations of this fraction are controlled by a National Environment Protection Measure (NEPM) and in State regulations.

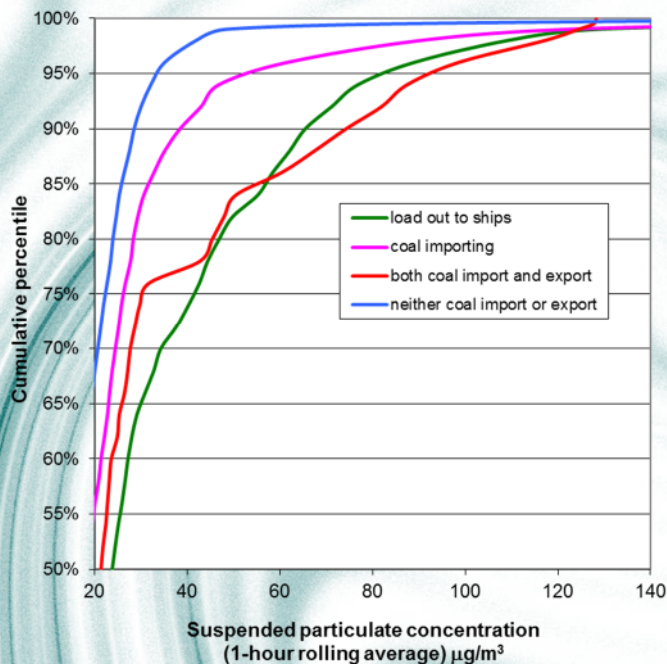
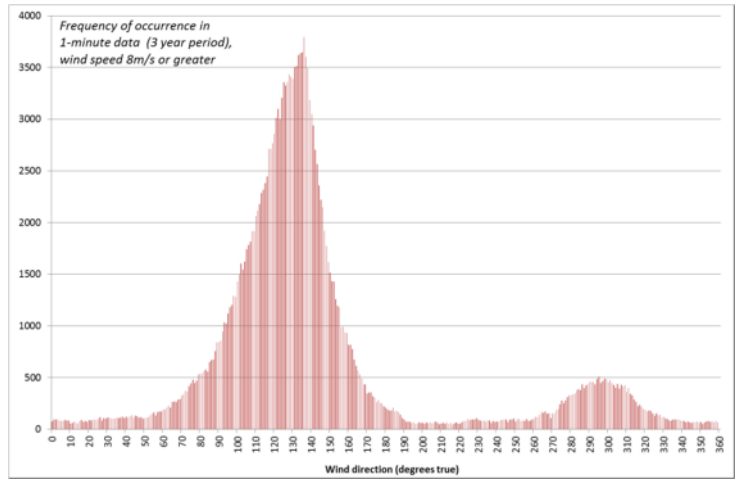


Assessment of actual or potential dust nuisance can be complex if a number of different dust sources are involved, and if background dust (naturally occurring) can be significant. Measurement of dust concentration and/or deposition may require the combined use of several different methods that measure upwind and downwind dust as well as both short term and longer term levels.



services offered

- Scoping of dust nuisance issues to determine extent of impacts and appropriate investigation strategies
- Source apportionment – what are the main contributors to off-site dust
- Targeted and strategic long term dust control plans
- Dust measurement at source, and ambient/community monitoring
- Atmospheric dispersion modelling
- Benchmarking/validation of model against known or measured impacts
- Impact risk assessment interpreted from model results



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- Stakeholder, community and regulatory consultation
- Emission control equipment options, trialling, and performance evaluation
- Management Plans
- Environmental Impact Statements
- Works Approvals, Development & Planning Approvals
- Licence conditions negotiations
- Buffer distance recommendations
- Independent peer review of assessments prepared by others
- Credible and experienced expert witness evidence



activity experience

mining and quarrying

- coal, aggregate, metals and minerals
- stockpiles, conveyance
- concentrating plants



lime and cement works

- raw materials handling, stockpiles
- kiln emissions
- cooling, milling
- product export

port export/import

- stockpiles
- shiploading
- unloading, dispatch



manufacturing

- metal refining
- asphalt, glass, fertiliser
- cereals, milk powder, dry foods
- materials import, export, stockpiling

wood products

- chipping and sawdust
- drying, sawmilling
- pellets manufacture
- particleboard and MDF
- pulp & paper



construction

- bulk earthworks
- excavations
- material stockpiles
- monitoring and management plans



regulatory

- licence reviews/approvals
- evidence for prosecutions/defences
- policy research and background

land development

- reverse amenity impacts
- neighbour conflicts/concerns
- buffer distances



Introducing Tracy Freeman

Tracy is the Principal Air Quality Consultant at Air Quality Professionals P/L, and is also the company Director. Tracy has 20 years' experience in environmental and air quality consultancy with a background of chemical and process engineering education. She is widely recognised as an expert in air quality issues, and has provided advice on industrial emissions, NEPM compliance, dispersion modelling, ambient air quality and meteorological monitoring, nuisance impacts (dust, odour) and air quality licence compliance issues to a broad range of industries and municipal/infrastructure activities.



For further information or to discuss your project needs, please contact Tracy at (+61) 409 165319 or tracy@airqp.com.au, or visit our website www.airqp.com.au

