

capability statement

atmospheric dispersion modelling



P: +61 409 165 319

E: tracy@airqp.com.au

W: www.airqp.com.au

Principal Air Quality Consultant, Tracy Freeman, is widely recognised as an expert in the practical application of atmospheric dispersion models.

Atmospheric dispersion modelling is the computer simulation of how air pollutants disperse in the ambient atmosphere.

A number of proprietary dispersion models are used in Australia, and Air Quality Professionals is highly proficient in the use of all of these models. We have specialised in the application of these models to real life situations, and the interpretation of model results for air quality impact assessments. Models used include TAPM, CALMET/CALPUFF, AUSPLUME, AERMOD, ISC-PRIME, as well as models for specialist applications.

Principal Air Quality Consultant, Tracy Freeman, has been providing clients with dispersion modelling services for 20 years, and has modelled a wide range of activities from complex industrial sites and coal handling facilities to intensive factory farming buildings and sewage plants.

She has also reviewed modelling carried out by others, designed and conducted a number of training courses on behalf of organisations, and contributed to the authoring of Good Practice Guides for the application of modelling science.

Services offered:

- ✚ Strategic advice (when to model, what to model, which model to use)
- ✚ Meteorological data setup to local regulatory requirements
- ✚ Full modelling setup, running and documentation of results
- ✚ Comparison of stack height options and recommendations for stack height and tip diameter optimisation
- ✚ Benchmarking/validation of model results against known or measured ambient impacts
- ✚ Comparison of impacts predicted by different modelling approaches
- ✚ Impact risk assessment interpreted from model results
- ✚ Review of modelling prepared by others
- ✚ Expert witness evidence
- ✚ Training



For further information or to discuss your dispersion modelling needs, please contact Tracy at (+61) 409 165319 or tracy@airqp.com.au

