

AIRPORTS

Our company

Zephyr Environmental (Zephyr), is a boutique environmental consulting practice specialising in air quality and carbon management. We aim to form enduring and trust-based relationships with our clients to help them solve their most challenging environmental problems.

Our decentralised and agile structure enables us to handle the most complex assignments while remaining small enough to prioritise excellence in delivery while minimising business disruption for our clients. Our value lies in de-risking projects and providing trusted expert advice.

Our core value is 'We are a breath of fresh air, to our clients and our people.' This is more than just a tagline; we strive to ensure that our clients have a significantly different, positive experience when working with us.



We strive to deliver practical, defensible advice that de-risks operations to ensure good environmental outcomes.

Services we provide:



Meteorological modelling



Air quality monitoring programs



Odour & dust management



Regional airshed management



Environmental & GHG audit / assurance



Air emissions management



Carbon mitigation & management



Data analysis & interpretation



Atmospheric dispersion modelling



Flagship Airport Projects



Major International Airport Master Plan and Environment Strategy

We delivered a specialist air quality assessment to support the development of two Master Plans and Environment Strategies for a major international airport. The work included preparing emissions inventories for multiple pollutants for a base year and two future years, covering aircraft, APUs, GSE, parking, roads and stationary sources such as boilers and generators. Detailed dispersion modelling focused on nitrogen dioxide, fine particulate matter and air toxics, completed using the Aviation Environmental Design Tool (AEDT). The whole-of-airport model continues to be used to inform future expansions and modifications.

Airport Ambient Air Quality Monitoring

We managed and reported data from a regulatory-grade ambient air quality monitoring station at a major airport, meeting requirements of the national testing authority. Additional periodic monitoring of air toxics—including benzene and formaldehyde—was undertaken using evacuated canisters. This monitoring provided robust evidence to inform long-term environmental management and future airport expansion.

Airport Terminal Extensions and Apron Upgrades

We completed air quality assessments to support Development Applications for proposed terminal extensions and apron upgrades at a major international airport. The work included developing aircraft emissions inventories and selecting the worst-case scenario for detailed dispersion modelling.



If these case studies — or any of the other services we offer — sound like they could add value, please don't hesitate to reach out. Our team is always ready to discuss your goals, answer any questions, and explore how we can best support your success.

Get in touch with our team at:



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Zephyr Environmental



www.zephyrenviro.com