Directional dust monitoring



We provide comprehensive particulate matter monitoring for environmental assessments, leveraging our deep expertise, unique equipment and advanced analysis tools.

Leading market adoption of the DustScan DS100 in Australia and New Zealand, the Trinity team offers a robust, cost-effective solution for directional dust sampling.

We manage the complete process from equipment installation to sampling and maintenance, as well as detailed analysis using specialist software to deliver numerical and graphical data representations. Sampling cylinders can be changed weekly or fortnightly, based on your reporting needs and site activity.

We empower our clients to implement well-informed, effective dust control strategies.

Our capabilities

- Precise installation and alignment for accurate data collection
- Routine site performance
 monitoring
- Compliance monitoring
- Dust annoyance investigations
- Dust source apportionment
- Dust pathway identification
- Dust dispersion/mapping investigations

Our clients

- Sapar Landscaping Supplies
- Benbow Environmental





About the DustScan DS100

The DustScan DS100 is an innovative dust gauge that captures dust from a full 360° radius, making it ideal for 'fence-line' monitoring and pinpointing dust sources.

The DustScan DS100 employs the sticky-pad technique, capturing airborne dust particles on its adhesive surface. Mounted on a stand approximately 2 metres high, the gauge samples dust from all directions.

Dust coverage is assessed using computer-based scanning. Our analysis yields two key measurements: Absolute Area Coverage (AAC%), indicating the overall presence of dust, and Effective Area Coverage (EAC%), measuring the darkness or soiling potential of the dust.

The pattern of dust deposition on the sticky pad also reveals the direction and extent of potential dust nuisance. The DustScan DS100 operates reliably in all weather conditions and without external power, making it adaptable to various sites.

The DustScan DS100 has been validated in wind tunnel and co-location studies and is approved by the UK Environment Agency and the UK Institute of Air Quality Management. It has also been accepted by the Queensland Department of Environment, Science and Innovation.

Why use the DustScan DS100?

Due to its unique design and capabilities, the DustScan DS100 may offer a superior monitoring solution in many scenarios compared to other products in market. These may include:

- 1 If your dust deposition rates are high or you have received complaints
- 2 If your site has more than one potential dust source
- 3 If you need to measure directional flux at receptor, on boundaries or upwind of your site
- If you find your community gauge samples are tampered with

Certifications and standards

- JAS/ANZ 3rd Party Certified by SCI Qual International (certification number 4277) for our Quality Management System, which is in conformance with ISO 9001:2015
- NATA-accredited in accordance with ISO/IEC 17025 for AS/NZS 4323.3 & NSW EPA OM-7
- Staff who are Certified Air Quality Professionals (CAQP)

