

ON-SITE MEASUREMENT: SOURCE SAMPLING



We provide exceptionally accurate air quality testing, including point, line, area and mobile sources. Deep knowledge of a wide range of testing methods has been gained through more than 30 years of experience. Our testing programs are correctly scoped and implemented, so that you get the right data to meet your needs.

RWDI is able to advise on meeting policy and permit condition compliance criteria. We provide guidance on optimizing facility design and mitigating pollution issues, as well as the development of management and due diligence plans.

Assessments for compliance, tests for pollution control equipment, developing emissions inventories and emissions factors, and conducting relative accuracy test audits (RATAs) on continuous emissions monitors (CEMs) are all carefully executed and support process optimization.

Testing is done at all scales, from a NO_x test on a single cogeneration unit to the full test gamut (metals, dioxins, VOCs, etc.) on multiple waste incinerators, for example.

Commitment is important. We deploy test equipment and mandated methods intelligently. For example, we don't accept "zero" readings, which have to be replaced by lab detection limits. We design our testing to yield actual numbers, which may even be lower than the lab detection limits. We want to provide the most accurate emission data for your facility.

RWDI is a valuable partner when you seek to...

Explore Innovations

- Optimize sampling locations (e.g., for safety, convenience) while adhering to required methodology

Create Opportunities

- Size pollution control equipment correctly to reduce costs
- Explore trial operating scenarios (e.g., change of fuel, product)

Meet Challenges

- Obtain specific results even for stringent levels

Fulfill Expectations

- Present results based on meticulous quality control
- Communicate test strategy and results to neighbors and stakeholders

SELECTED PARAMETERS TESTED

- Particulate concentrations (total PM, PM10, PM2.5, CPM)
- FTIR analysis
- PFAS, per- and polyfluoroalkyl substances testing
- RATAs for NO_x, SO₂, N₂O, CO, O₂, CO₂, THC, velocity, temperature, moisture
- Pollutant concentrations (THC, volatile, semi-volatile organic metals, hazardous air pollutants)
- Semi-volatile compounds (PCBs, PAHs, dioxins, furans)
- Volatile organics (total and individual species)
- Odour
- Metals (including Cr+6)
- Acid gases (sulphuric, hydrochloric, hydrofluoric acids)
- Visible emissions (opacity)

There are many ways to implement the methodologies defined in environmental codes. We choose the way that's most accurate, even if it's harder or takes longer, because our goal is exceptional quality.