

Levelton has provided emission testing and ambient air quality monitoring services to industry and government agencies for over 30 years. We have the expertise and equipment to measure pollutant emissions from stack and fugitive sources and to test ambient pollutant concentrations. Clients typically require these types of services to comply with air emission permits, to provide data for trouble-shooting or design purposes, or to assess baseline conditions as part of an environmental impact assessment for a proposed new facility.



Emission Surveys

Services are available to aid our clients with their regular or occasional testing and consulting needs, such as:

- stack testing for permit compliance;
- opacity reader training and certification;
- size distribution of particulate emissions – both in stack and ambient;
- petroleum or chemical product losses during loading of storage tanks;
- CEMS certification, RATA testing, quality control and quality assurance manuals and annual audits;
- toxic, explosive and oxygen-deficient atmospheres;
- LDAR programs at refineries and petrochemical facilities – leak surveys, data management and emission inventories;
- monitoring of workplace pollutants and noise in accordance with WCB methods; and
- ambient air quality monitoring and reporting.

Levelton can also develop customized emission testing programs to suit specific air pollution or process problems

Levelton has extensive experience with Canadian and US emission testing methods for air pollutants, including, for example:

- particulate matter – total, PM₁₀, PM_{2.5};
- heavy metals;
- fixed gases such as SO_x, NO_x, CO, CO₂, HCl, HF, Cl₂, TRS, H₂S, etc.;
- semi-volatile organic compounds including dioxins, furans, PAHs, PCBs, etc.;
- volatile organic compounds such as benzene, toluene, xylenes, ethylbenzene, chlorobenzene, vinyl chloride, acetates, etc.

Our staff routinely conducts emission surveys for permit compliance, or for engineering evaluations. We have experience with most types of emission sources and industrial sectors, and the test methods that apply to each, such as pulp and paper mills, wood products manufacturing plants, petroleum refineries, chemical plants, power plants, foundries, mines and smelters, food processing plants, service stations, bulk plants, and asphalt plants.



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With our testing, pollution control and power engineering expertise, Levelton can provide you with a complete service package. Examples of typical testing and consulting services are listed below:

- emission surveys for permit compliance, engineering design and issue resolution;
- permit and license applications;
- ambient air quality testing programs, data management and reporting;
- baseline studies for environmental impact assessments;
- pollution control equipment selection, assessment, troubleshooting and optimization;
- certification of continuous emission analyzers;
- special studies – emission characterization, test burns, pollution equipment performance testing, power plant efficiency tests, equipment acceptance testing to ASME, ANSI and other test standards, etc.;
- NPRI emission reporting.



We have in-house capability for calibration of emissions sampling equipment, S-Type pitot tubes, dry gas meters, orifice meters, etc.

We also provide training to industry and government in emission testing and opacity reading and in the repair and maintenance of emission testing equipment. Please refer to our web page for training courses offered annually in Prince George for opacity reader certification and re-certification.

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