

Many industries and companies are affected by the weather and can gain an advantage, or operate more efficiently with access to improved information on the meteorology and climate in their areas of operation. From climate analysis for planning and project development, to site specific baseline studies, investigations and forecasts, Levelton's meteorologists can help by providing the information you need. When public forecasts do not provide the local information your company needs, Levelton can produce or refine forecasts to suit specific activities and areas. On-site meteorological monitoring can also be provided to obtain critical data needed by managers and site supervisors to make better decisions and increase efficiency.

Meteorological Monitoring

Levelton provides a full range of services for installation of temporary or permanent meteorological stations. We have experience with the design and installation of a variety of stations and most types of equipment, including instrumented meteorological towers, remote sensing equipment and associated telecommunications systems. The systems can be used alone or in combination with data from government or industry stations.



Meteorological stations can be designed and commissioned for long-term, continuous monitoring of sites, or for short-term applications such as construction and oil and gas well sites, where the safety of personnel or regulatory permits may be contingent on local weather conditions. Highly qualified meteorologists and field installation specialists ensure that the systems are installed correctly and data meets accepted quality standards.

A quality assurance program can be implemented for ongoing monitoring and data collection projects to ensure reliable data is obtained and reported to the client and government agencies.

Levelton's professional staff includes meteorologists, engineers, and scientists, who ensure projects meet relevant government guidelines and current scientific and industry standards. Our meteorological stations are suitable to tie into many environmental management systems or to Levelton's meteorological, dispersion and/or real-time modelling platforms.





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Climatological and Forensic Meteorological Analysis

There are many situations where project-specific weather forecasts and investigations are needed by clients to support field activities or claims for damages.

Such forecasts are frequently needed for oil and gas well approvals in areas sensitive to air quality impacts, and for construction projects where weather-related delays need to be managed. We also assist clients pursuing weather-related insurance claims associated with product damage, material failures, or other similar problems, by analyzing and interpreting local and worldwide weather data.

Our staff can examine historic information to assess risks and develop weather statistics, or can provide local weather forecasts. We use information on specific storm tracks, precipitation patterns, wind events and expected temperatures identified from the climate monitoring data. In addition, climate data can be reviewed and analysed to identify trends that may affect an entire industry or region.

Site Specific Forecasts

The federal government produces public weather forecasts for the safety and well being of Canadian citizens. These forecasts are produced at a number of offices across the country, primarily in major population centres and along transportation routes. In the complex geography of British Columbia and Alberta, weather conditions vary greatly with elevation, location and time of day and cannot be adequately addressed by broad-based public forecast. Site-specific information is often needed. Levelton has extensive experience with preparation of site-specific weather forecasts, such as in the oil and gas fields in northeast BC, drawing on existing weather forecasts, meteorological model results and professional experience.

Some examples of site specific and business-oriented forecasts are:

- Wind directions, rain and other parameters for oil and gas well approvals subject to weather conditions.
- Temperature predictions for construction companies when pouring concrete.
- Wind forecasts for shipping terminals and commercial crane operators.

- Wind and dispersion analysis for farmers when crop dusting.
- Radar analysis and precipitation forecasts for roofing companies.
- Precipitation patterns and weather statistics for tour groups and film makers



We can provide services nationally through our offices in British Columbia and Alberta.

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