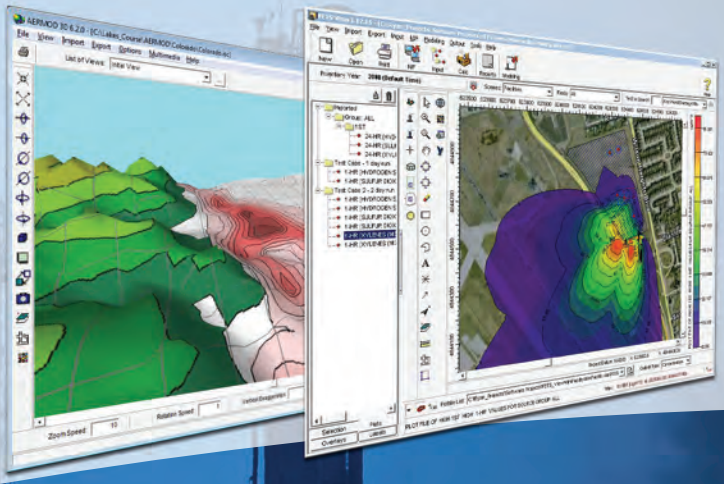
SOFTWARE SOLUTIONS

Lakes Environmental offers a wide range of environmental software products in the areas of air dispersion modeling, compliance, emissions inventory, and risk assessment.



Air Dispersion | Compliance | Emissions Inventory | Risk Assessment

Lakes Software

www.webLakes.com

Air Dispersion Modeling

Air dispersion modeling uses information about sources and meteorological conditions to calculate how a pollutant moves through the atmosphere and what the pollutant concentration is at specific locations.

AERMOD View™

Gaussian Plume Air Dispersion Model

AERMOD View is an air dispersion model applicable to a wide range of buoyant or neutrally buoyant emissions up to a range of 50km from the source.

AERSCREEN View™

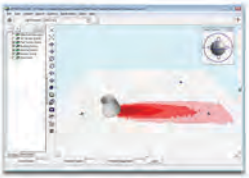
Screening Air Dispersion Model for AERMOD

AERSCREEN View is an interface for the US EPA AERSCREEN screening-level air quality model and associated modeling programs.

ARTM View™

Atmospheric Radionuclide Transport Model

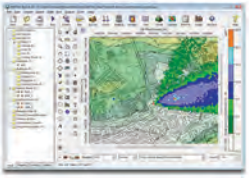
ARTM View is based on the German Atmospheric Radionuclide Transport Model (ARTM), which calculates the dispersion and deposition of releases of airborne radioactive materials in the atmosphere.



AUSTAL View™

Lagrangian Particle Tracking Air Dispersion Model

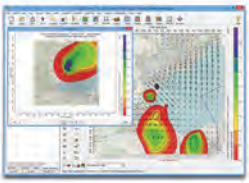
AUSTAL View is a Lagrangian particle tracer model. Widely used in Germany, AUSTAL is capable of modeling complex wind fields and transient behavior.



CALPUFF View™

Long Range Transport Puff Air Dispersion Model

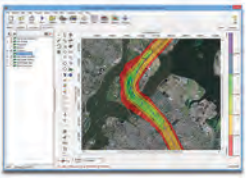
CALPUFF View is a non-steady state Gaussian puff model, suitable for long range transport, atmospheric chemistry, visibility, and scenarios with complex wind fields, such as coastal and complex terrain areas.



CALRoads View™

Traffic Air Dispersion Model

CALRoads View is a traffic air dispersion model designed for modeling emissions from vehicles. CALRoads View can model timed intersections, parking lots, and account for traffic patterns.



SCIPUFF View™

SCICHEM Air Dispersion Model

SCIPUFF View is a Lagrangian puff air dispersion model that represents an arbitrary, three-dimensional time-dependent concentration field for modeling atmospheric dispersion.

Emissions Management

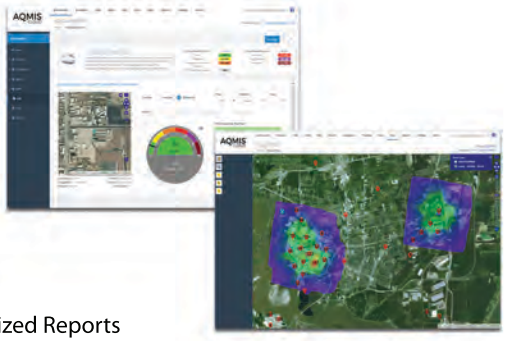
Emissions management involves the calculation, collection, and summarization of emissions data from a variety of sources. This emissions data may be used to create inventories or to run air dispersion models.

AQMIS Cloud™

Air Quality Management Information System

AQMIS is a cloud solution for emissions and air quality management. AQMIS enables regulatory agencies, governments, and facilities around the world to manage emissions from thousands of sources, run models, issue permits, forecast air quality impacts and more, all through the convenience of a fully integrated web application.

- Emissions Inventory
- Air Dispersion Modeling
- Air Quality Forecasting
- Deep Neural Net Forecasting
- Air Quality Index (AQI)
- Ambient Air Monitoring
- Human Health Risk Assessment
- Permitting and Compliance
- GIS/Mapping
- Interactive Dashboards and Customized Reports
- Document Management



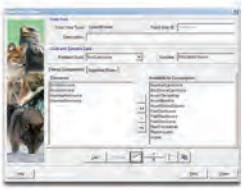
Risk Assessment

Risk assessment involves modeling the fate and transport of pollutants beyond their dispersion in the air. Transport through mechanisms such as deposition, run-off, and bioaccumulation are considered with an overall objective of assessing the impact of pollutants on people and the environment.

EcoRisk View™

Ecological Risk Assessment Program

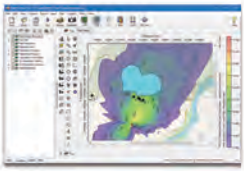
EcoRisk View is an advanced ecological risk assessment program for conducting a comprehensive multi-pathway risk assessment based on the US EPA Screening Level Ecological Risk Assessment Protocol.



IRAP-h View™

Human Health Risk Assessment Program

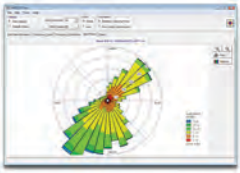
IRAP-h View is an advanced human health risk assessment program for conducting a comprehensive multi-pathway risk assessment based on the US EPA Human Health Risk Assessment Protocol (HHRAP).



Freeware Software

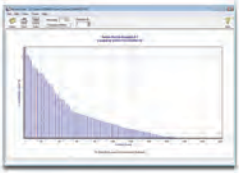
Professionals can download software to prepare wind roses, obtain worst-case pollutant concentrations for single sources, and generate percentile concentrations.

WRPLOT View™



SCREEN View™

Percent View™



Lakes Software

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