

# AMERICAN ECOTECH



## An Introduction :

American Ecotech designs, manufactures, supplies and maintains a vast selection of sophisticated pollution monitoring systems for numerous applications. Our product range includes data acquisition systems specifically for ambient air quality monitoring networks, portable and fixed site gas analysis and particulate sampling systems, source emissions monitoring systems, and on-line process gas analyzers. We also supply gas calibration & diluter systems, toxic gas monitors, and industrial hygiene monitoring equipment.

American Ecotech also offers additional advanced services such as NIST certified ozone analyzer reference checks, meteorological instrumentation NIST certified checks, and advanced site auditing services. Whether it involves product delivery, meeting customer specifications, service reporting or engineering a solution to your monitoring needs, our quality systems are designed to ensure you receive the very best from us every time.

## Our Products and Services :

As integrators of pollution monitoring equipment and data acquisition systems, American Ecotech only selects from suppliers offering the latest technology. In addition to our own Ecotech brand of quality equipment, we're proud to be the fully trained suppliers of other leading edge brand names, such as Met One, Vaisala, RM Young, and Chromatotec. All Ecotech and third party products are factory tested and subjected to comprehensive compliance criteria prior to official release. Our equipment is maintained in such a manner to ensure it always remains the best available current technology.

American Ecotech's solution based approach enables us to offer a wide range of service that will meet your individual needs.

## Installation & Service :



Installation of an American Ecotech supplied air monitoring station typically involves the retrofitting of all system components such as sample manifold and meteorological mast, installation of the air quality monitors into the rack cabinet/s and various other configuration tasks required to ensure the system is fully functional. All site civil works, which may include the laying of cement slabs, erection of fencing and supply of main power is normally arranged in advance.

Immediately after the installation of the system(s), American Ecotech technicians will carry out a final system check, initiate the first calibration and ensure that the system is working successfully. All of our installation and commissioning activities are carried out in accordance with US-EPA established Quality Assurance Procedures so you can be assured of a reliable and efficient system.

Our on-going commitment to customer service ensures that you receive professional, diligent and efficient service support for the life of your system, wherever you are located.

American Ecotech's offices throughout North America are staffed by expert customer support technicians who understand all aspects of installation, commissioning, training, service, maintenance, calibration, operation and data management and application support.

## Operation & Data Validation :

In addition to installation and commissioning services, American Ecotech is also able to help customers to develop technical QAPP's (Quality Assurance Project Plans) for their new systems. These are customized QAPP's, carefully outlining the entire technical system requirements and maintenance procedures, as well as data validation procedures. Furthermore, American Ecotech has the resources, customized software, and experience to conduct ongoing weekly comprehensive data validation and reporting services on behalf of our customers, or alternatively we can train customer or consultants to perform data validation correctly. This ensures maximum data accuracy and greatly improve the total percentage of data capture. Typically stations where we are employed to conduct ongoing data validation will experience upwards of 90% valid data capture each month. Furthermore, as part of this additional service we can provide advanced daily and monthly data reports and graphs. These are advanced customized reports and graphs designed to suit each customer's specific requirements, yet usually can be reproduced with the latest up to date data at a moment's notice via utilization of our WinCollect data reporting software.

We also can offer air monitoring station auditing service as well, which is provided by our most experienced and qualified technical staff members upon request.

## Training :

At American Ecotech we believe it is important that the customer should be comfortable and fully conversant with the operation and maintenance of our specialized equipment. This is why we provide full training on all of our products sold; furthermore we provide service and spare parts for all of our equipment so you can maintain continual operation of your valuable investment. We also conduct comprehensive operational and maintenance training courses which are highly regarded by our customers. It is our dedication to training our customers in all aspects of their purchased system that ultimately results in systems that work.



American Ecotech comprehensive training courses are carefully prepared with a combination of lecture material, videotapes, PowerPoint presentations and LCD displays to allow students to become familiar with all aspects of operation, troubleshooting, repair, and maintenance of your instrumentation in the theory of operation, functional description of pneumatics, circuit analysis, electronic alignment and calibration of your analyzers.

The duration of training courses varies according to topic but typically runs between two and ten days. In some circumstances, a follow-up course may be required after six months for more advance data interpretation, data audits and station audits on quality assurance programs. Training sessions can be customized to suit specific customer needs and can be held on-site; at the customers choice of location or at one of American Ecotech's training locations.

American Ecotech has provided many training courses both in our factory and around North America and the Caribbean for agencies such as US-EPA, Ontario Ministry of the Environment, British Columbia Ministry of the Environment, EPA Tribal Air Monitoring Services (TAMS), various State agencies, and many others.

Upon completion of all training, course graduates receive a **Certificate of Completion**, which recognizes the graduate as being fully qualified for the operation and maintenance of the appropriate equipment or system.



## Our Experience :

Our trained engineering technicians and customer service staff can provide you with the flexible solution you're looking for. We have supplied complete turnkey monitoring systems to many industrial companies and environmental agencies in North American and elsewhere around the world. Our air monitoring systems are currently in use in the USA, Canada and the Caribbean. Our experience speaks for itself with over 500 applications sold to customers across North American. You can be reassured that such experience will result in a successful and reliable monitoring system that provides fast and reliable results.

American Ecotech recent project examples include :



### **Cherokee Nation, Inter-Tribal Environment**

Installed NCORE trace monitoring system including SO<sub>2</sub>, CO and NO<sub>y</sub> into the existing ambient monitoring program. American Ecotech performed installation of the trace system including configuration of a trace level scrubbing system for the zero air generator. WinCollect software is utilized for remote data acquisition and real-time operation status and, in the near future, will be used to automatically upload data to the US EPA AirNow website for public viewing.



### **British Columbia Ministry of Environment**

Built complete customized mobile air monitoring system for the monitoring of trace CO, SO<sub>2</sub>, standard level NO<sub>x</sub>, black carbon, and particulate. In addition to the analyzers, system included shock mounted racks, glass sampling manifold, complete gas calibration system with trace level zero air scrubbing system, WinAQMS logger, WinCollect remote data acquisition system, and bumper mounted hydraulically controlled telescoping mast for meteorological gear.



### **US - EPA**

Required four advanced inter-connected systems for real-time scientific air quality monitoring in a desert environment. Systems were required to be relocated to new sites on an annual basis. Designed and built turn-key monitoring systems, including 20' relocatable shelters, plus all instrumentation. Systems were fully configured and tested in our factory prior to shipment. Each system includes ability to measure various criteria pollutant gases (NO<sub>x</sub>, trace SO<sub>2</sub>, trace CO); real-time measurement of benzene and 1-3 butadiene, full suite of meteorological monitoring; PM<sub>2.5</sub> & PM<sub>10</sub> particulate monitoring;



### **Hawaii Electric Power**

Designed and built two turn-key ambient air monitoring stations, including full suite of gas analyzers (ozone, oxides of nitrogen, carbon monoxide, sulphur dioxide), plus automated calibration systems, PM<sub>10</sub> particulate monitors, meteorological instrumentation, and centralized data acquisition and reporting system.

with full remote control enabled via a centralized data acquisition system (WinAQMS) and data validation and reporting system (WinCollect).

## Contact US:

The above is just a sampling of the instruments and services that American Ecotech can provide. For more information including product updates and upcoming events please visit our website at [www.AmericanEcotech.com](http://www.AmericanEcotech.com). Please also contact us with any questions via email at [info@americanecotech.com](mailto:info@americanecotech.com) or phone at (401) 247-0100.