

ALISON E. RAY
Senior Air Quality Field Technician



Educational Background

B.S., Business Administration, University of Florida

1455 N. McDowell Blvd., Suite D
Petaluma, CA 94954-6503
707.665.9900
Fax: 707.665.9800
www.sonomatech.com

Professional Experience

Ms. Ray joined STI in 2007 as an Air Quality Field Technician. She is responsible for installing, calibrating, and operating air quality and meteorological monitoring instruments and delivering high quality data to domestic and international government and industrial clients. She routinely conducts air quality and meteorological performance audits. Ms. Ray is an expert in air sampling and analysis techniques such as those for continuous gaseous and particulate matter ambient monitoring, Federal Reference Method (FRM) particulate sampling, and air toxics sampling. Ms. Ray works with numerous systems to acquire digital and analog instrument data and uses remote telemetry to operate monitoring equipment and collect data. She is skilled in writing quality assurance project plans (QAPPs) and standard operating procedures (SOPs). Since joining STI, Ms. Ray has completed field work for several studies including inspecting and auditing the Caltrans' Remote Weather Information Systems (RWIS) network, deploying and operating offshore (oil platform) air quality measurements for the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE; formerly the U.S. Minerals Management Service), and measuring shipping facility impacts at dockside locations in Jamaica.

Ms. Ray has 20 years of experience in network design, site selection and logistics, installation, routine operations, troubleshooting, auditing, data validation and reporting, network assessment, and quality assurance. She is experienced in source testing, modeling and permitting, emission inventories, and workplace monitoring. She is proficient in ambient and trace level continuous gaseous pollutant monitoring and near-roadway continuous particulate measurements. Since 2001, she has been coordinating field studies and is an expert in logistics and technical support for field air programs.

Prior to joining STI, Ms. Ray worked for Environmental Science and Engineering (ESE) and its successor, MACTEC, most recently as the sole field technician for the middle region of the State of Georgia Ambient Air Monitoring Network, the only state network operated by a private contractor. She collected PM_{2.5} integrated samples, speciated PM_{2.5}-integrated samples, PM₁₀-integrated samples, and air toxics samples. In addition, Ms. Ray operated continuous pollutant monitors, including FRM ozone, sulfur dioxide, oxides of nitrogen, and PM_{2.5} Tapered Oscillating Element Monitors. She worked five years as a field technician for the U.S. Environmental Protection Agency's Clean Air Status and Trends Network (CASTNet) air quality and meteorological monitoring network and served an additional year as the Coordinator of Field Operations. She was the lead technician for workplace monitoring project field efforts for five years in the forest products industry and provided assistance on a variety of source testing activities, including PM_{2.5} source testing. She also performed field and laboratory evaluations of sampler performance.

Ms. Ray has worked with industrial clients in Jamaica to bring their ambient monitoring programs into compliance with the Natural Resources Conservation Authority's new regulations. She continues to support client staff in operating air monitoring networks in Jamaica. She also has worked with state and local air quality agencies, transportation departments, universities, and U.S. government agencies.

Memberships

Air & Waste Management Association

See <http://www.sonomatech.com/ResPub/AERpub.pdf> for a list of publications.