

Journal Articles

- Tatum V.L., Ray A.E., and Rovell-Rixx D. (2002) Performance of the RespiCon personal aerosol sampler in forest products industry workplaces. *American Industrial Hygiene Association Journal* 63 (3), 311-316.
- Tatum V.L., Ray A.E., and Rovell-Rixx D. (2001) Field evaluation of the performance of personal inhalable dust samplers in wood-products industry facilities. *Applied Occupational and Environmental Hygiene* 16, 763-769.

Meeting Presentations and Conference Proceedings

- Dye T.S., Vaughn D.L., Ray A.E., and Roberts P.T. (2010) Evaluating the use of many low-cost sensors for monitoring NO₂ gradients. Presented to *NACAA Monitoring Steering Committee, San Francisco, CA, December 1* (STI-4044).
- Reid S.B., Eisinger D.S., Roberts P.T., Vaughn D.L., Pollard E.K., DeWinter J.L., Du Y., Ray A.E., Brown S.G., and Chenausky B.T. (2010) Field study of PM_{2.5} emissions from a road-widening project. Paper presented at the *19th International Emissions Inventory Conference, September 29, San Antonio, TX* (STI-3959).
- Dye T.S., Vaughn D.L., Ray A.E., and Roberts P.T. (2010) Evaluating the use of many low-cost sensors for monitoring NO₂ gradients. Presented at the *National Air Quality Conferences, Raleigh, NC, March 15-18* (STI-3836).
- Landreneau J.V., Ray A.E., Hafner H.R., Roberts P.T., Chan A., Jackson J.A., and Zell E. (2009) Designing an air quality monitoring network for urban centers. Training course presented at the *Curso Regional sobre Aseguramiento de la Calidad de las Mediciones de Inmisiones y Emisiones de Contaminantes de Aire Universidad Nacional, Costa Rica, March 30–April 3, 2009*, by Sonoma Technology, Inc., Petaluma, CA, and Battelle Memorial Institute, Arlington, VA (STI-908078.03).

Formal Reports

- Pasch A.N., Hafner H.R., Ray A.E., and Roberts P.T. (2011) Data validation procedures for NCore trace-level measurements. Draft report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC by Sonoma Technology, Inc., Petaluma, CA, STI-910212-3993-DR3, September 30.
- Ray A.E. (2011) 2011 quality assurance, calibration, and maintenance of meteorological instruments, ambient particulate matter monitors and samplers, and ambient continuous gaseous pollutant analyzers at JAMALCO sites. Quality assurance report prepared for JAMALCO, Clarendon, Jamaica, W.I., by Sonoma Technology, Inc., Petaluma, CA, STI-910058-4106, March.
- Vaughn D.L. and Ray A.E. (2011) Standard operating procedure for the continuous measurement of particulate matter—Thermo Scientific TEOM 1400a Ambient Particulate Monitor with 8500C FDMS Federal Equivalent Method EQPM-0609-181 for PM_{2.5}. Working draft prepared for the U.S. Environmental Protection Agency, by Sonoma Technology, Inc., Petaluma, CA, STI-910212-4083-SOP, March.
- Reid S.B., Roberts P.T., Eisinger D.S., Vaughn D.L., Pollard E.K., DeWinter J.L., Du Y., Ray A.E., Brown S.G., and Chenausky B.T. (2011) Construction activity, emissions, and air quality impacts: real-world observations from an Arizona road-widening case study. Poster presented at the *21st CRC Real World Emissions Workshop, San Diego, CA, March 20-23*, by Sonoma Technology, Inc., Petaluma, California, and Arizona Department of Transportation, Phoenix, AZ (STI-4105).

- Ray A.E. (2010) 2010 quality assurance calibration and maintenance of meteorological sensors and ambient air analyzers at WINDALCO stations. Quality assurance report prepared for West Indies Alumina Company by Sonoma Technology, Inc., Petaluma, CA, STI-910023-4056, December.
- Roberts P.T., Reid S.B., Eisinger D.S., Vaughn D.L., Pollard E.K., DeWinter J.L., Du Y., Ray A.E., and Brown S.G. (2010) Construction activity, emissions, and air quality impacts: real-world observations from an Arizona road-widening case study. Final report prepared for the Arizona Department of Transportation, Phoenix, AZ by Sonoma Technology, Inc., Petaluma, CA, STI-908017-3971-FR, October.
- Vaughn D.L., Dye T.S., Roberts P.T., Ray A.E., and DeWinter J.L. (2010) Characterization of low-cost NO₂ sensors. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC by Sonoma Technology, Inc., Petaluma, CA, STI-910112-3958-DFR, September.
- Ray A.E. and Knoderer C.A. (2010) 2010 quality assurance calibration and maintenance of meteorological instruments at Caltrans District 6 sites: Children's Blvd., San Joaquin River, Fresno River, Ash Slough, and Panoche Rd. Final report prepared for Caltrans Traffic Operations, San Bernardino, CA, by Sonoma Technology, Petaluma, CA, STI-909039-3918-FR, July 20.
- Ray, A.E. (2010) 2010 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 8 sites: I-15 & US 395, Brake Check, Mid-pass, Windy Point, Barstow, I-15 & SR 138, SR 138 & SR 2, Duncan Road, and Blockbuster; Final report prepared for Caltrans Traffic Operations, San Bernardino, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-909039-3914-FR, July.
- Ray, A. E. (2010) 2010 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 10 sites: Fremont, S/O Armstrong, Hammer Lane, Wilson Way, Crosstown, and Milgeo; Final report prepared for Caltrans Traffic Operations, San Bernardino, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-909039-3902-FR, June.
- Ray A.E. (2010) 2009 calibration and maintenance of wind monitor at the Gantry site. Letter report prepared for Noranda Jamaica Bauxite Partners, Discovery Bay, St. Ann, Jamaica, by Sonoma Technology, Inc., Petaluma, CA, 909061-3778, January.
- Ray A.E. (2010) 2009 quality assurance calibration and maintenance of meteorological instruments at Noranda Jamaica Bauxite Partners sites. Final report prepared for Noranda Jamaica Bauxite Partners, Discovery Bay, Saint Ann, Jamaica by Sonoma Technology, Inc., Petaluma, CA, STI-909061-3777-FR, January.
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- Ray A.E. (2009) 2009 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 2 sites. Final report prepared for Caltrans Traffic Operations, San Bernardino, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-909039-3756-FR, December.
- Ray A.E. and Hafner H. (2009) 1405-DF FDMS TEOM operation: key points. Training slides prepared for U.S. EPA, Office of Air Quality Planning and Standards, by Sonoma Technology, Inc., Petaluma, CA, STI-905505-3724, October.

Ray A.E. and Vaughn D.L. (2009) Standard operating procedure for the continuous measurement of particulate matter—Thermo Scientific TEOM® 1405-DF. Draft SOP prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Inc., Petaluma, CA, STI-905505.03-3657-SOP, September.

MacDonald C., Ray A., and Roberts P. (2009) Use of aloft meteorological data to understand temporal and spatial characteristics of air quality data in Cleveland on August 1, 2009. Webinar presented by Sonoma Technology, Inc., Petaluma, CA, STI909032-3681, September.

Ray A. and Landreneau J.V. (2009) Calibration and repair of equipment in JAMALCO's ambient air monitoring network. Prepared for Alcoa of Jamaica (JAMALCO), Clarendon, Jamaica, W.I., STI-908074.02-3604-FR, April.

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Ray A.E. and Landreneau J.V. (2009) 2008 Quality assurance calibration and maintenance of meteorological instruments at St. Ann bauxite sites. Final report prepared for St. Ann Jamaica Bauxite Partners, Saint Ann, Jamaica, West Indies, Sonoma Technology, Inc., Petaluma, CA, STI-908070.02-3559-FR, January.

Ray A.E. and Landreneau J.V. (2008) 2008 quality assurance calibration and maintenance of meteorological instruments and ambient air monitors at Alpart sites. Final report prepared for Alumina Partners of Jamaica, St. Elizabeth, Jamaica, West Indies, by Sonoma Technology, Inc., Petaluma, CA, STI-908067-3516-FR, December.

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Ray A.E. and Landreneau J.V. (2008) 2007 quality assurance calibration and maintenance of meteorological instruments and ambient air monitors at WINDALCO sites. Final report prepared for the West Indies Alumina Company, Manchester, Jamaica, West Indies, by Sonoma Technology, Inc., Petaluma, CA, STI-907047-3297-FR, January.

Ray A.E. and Landreneau J.V. (2008) 2007 quality assurance calibration and maintenance of meteorological instruments and ambient air monitors at ALPART sites. Final report prepared for Alumina Partners of Jamaica, St. Elizabeth, Jamaica, West Indies, by Sonoma Technology, Inc., Petaluma, CA, STI-907057-3296-FR, January.