

Meeting Presentations and Conference Proceedings

- Smith K. (2021) Caltrans District 8 Roadway weather information system (RWIS) procedures and maintenance training presentation. Prepared for Caltrans Traffic Operations District 8, June 22 and 24.
- Smith K. (2021) 2021 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 2 sites. Final report prepared for Caltrans Traffic Operations District 8, Fontana, CA by Sonoma Technology, Inc., Petaluma, CA, 920025-7554-FR, June.
- MacDonald C.P., Smith K.M., and Dillon M.D. (2017) Considerations for effective upper-air meteorological networks. Extended abstract for the *AWMA Air Quality Measurement Methods and Technology, Long Beach, CA, November 7-9*. STI-6751.
- Dye T., Stanton L., MacDonald C., Smith K., Roberts P., and Dillon M. (2017) Results and lessons learned from using low-cost PM sensors to detect ambient PM_{2.5} and PM₁₀. Presented at the *Primary Quality Assurance Organization (PQAO) meeting in Pomona, CA, January 24-26*, by Sonoma Technology, Inc., Petaluma, CA. STI-6644.
- Dye T., Stanton L., MacDonald C., Smith K., Roberts P., Graham A., and Dillon M. (2016) Results and lessons learned from using low-cost PM sensors to detect ambient PM_{2.5} and PM₁₀. Presented at the *National Association of Clean Air Agencies, Minneapolis, MN, October 17*. STI-6593.
- Dye T., Stanton L., MacDonald C., Smith K., Roberts P., Graham A., Dillon M., and Chan A. (2016) Results and lessons learned from using low-cost PM sensors to detect ambient PM_{2.5} and PM₁₀. Presented at the *Better Air Quality Conference, Busan, South Korea, September 1*, by Sonoma Technology, Inc., Petaluma, CA. STI-6525.
- Dye T., Stanton L., MacDonald C., Smith K., Roberts P., Graham A., and Dillon M. (2016) Results and lessons learned from using low-cost PM sensors to detect ambient PM_{2.5} and PM₁₀. Presented at the *National Ambient Air Monitoring Conference, St. Louis, MO, August 8-11*. STI-6517.
- MacDonald C.P., Roberts P.T., McCarthy M.C., Rutter A.P., Dye T.S., Vaughn D.L., Minor H.A., Smith K.M., Henshaw G., Nester S., Morrow D., Winegar E., and Sweet J. (2013) Measuring spatial variability in ozone concentrations using a small-sensor network. Presented at the *A&WMA Air Quality Measurement Methods and Technology Conference, Sacramento, California, November 19–20*, by Sonoma Technology, Inc.; Aeroqual Ltd.; Providence Engineering and Environmental Group, LLC; and the San Joaquin Valley Unified Air Pollution Control District. STI-5750.
- MacDonald C., Vaughn D., Roberts P., Dye T., Rutter A., Minor H., McCarthy M., Smith K., Nester S., Morrow D., Winegar E., and Sweet J. (2013) San Joaquin Valley ozone saturation study: study update. U.S. Environmental Protection Agency, Region 9, San Francisco, CA, September 9, Sonoma Technology, Inc., Petaluma, CA. STI-913040-5754.

Formal Reports

- Scarborough C., Penfold B., Hafner H., and Smith K. (2023) Fifteenth annual report of ambient air quality monitoring at Sunshine Canyon Landfill and Van Gogh Elementary School: a fifteen-year summary, November 22, 2007–November 21, 2022. Annual report prepared for Planning Department, City of Los Angeles, Los Angeles, CA, by Sonoma Technology, Petaluma, CA, STI-915026-7929, June 30.

- Smith K.M. (2022) Performance audits of meteorological monitoring stations for South Coast AB617 sites. Report prepared for T&B Systems, Inc., Placerville, CA by Sonoma Technology, Petaluma, CA, STI-922068-7834.
- Scarborough C., Wang N., Penfold B., Hafner H., and Smith K. (2022) Fourteenth annual report of ambient air quality monitoring at Sunshine Canyon Landfill and Van Gogh Elementary School: a fourteen-year summary, November 22, 2007–November 21, 2021. Annual report prepared for Planning Department, City of Los Angeles, Los Angeles, CA, by Sonoma Technology, Petaluma, CA, STI-915026-7760, July 30.
- Smith K. (2022) 2022 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 8 sites. Final report prepared for Prepared for Omar Perez, Caltrans Traffic Operations District 8, Fontana, CA by Sonoma Technology, Inc., Petaluma, CA, STI-920025-7731-FR, May.
- Smith K. (2022) 2022 Quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 8 sites. Final Report prepared for Omar Perez, Caltrans Traffic Operations District 8, Fontana, CA by Sonoma Technology, Petaluma, CA, STI-920025-7670-FR, February.
- Smith K. (2022) 2022 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 6 sites. Final report prepared for Omar Perez, Caltrans Traffic Operations District 8 Fontana, CA by Sonoma Technology, Inc., Petaluma, CA, STI-920025-7715-FR, April.
- Scarborough C., Wang N., Penfold B., Hafner H., and Smith K. (2021) Thirteenth annual report of ambient air quality monitoring at Sunshine Canyon Landfill and Van Gogh Elementary School: a thirteen-year summary November 22, 2007–November 21, 2020. Annual report prepared for Planning Department, City of Los Angeles and Los Angeles County Department of Regional Planning, Los Angeles, California by Sonoma Technology, Inc., Petaluma, CA, STI-915026-7564-FR.
- Smith K. and Winborg C. (2021) 2021 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 2 sites. Final Report prepared for Omar Perez, Caltrans Traffic Operations, District 8, Fontana, CA by Sonoma Technology, Inc., Petaluma, CA, STI-920025-7636, November.
- Smith K. (2021) 2021 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 8 sites. Final report prepared for Caltrans Traffic Operations District 8, Fontana, CA by Sonoma Technology, Inc., Petaluma, CA, STI-920025-7534-FR, May 24.
- Smith K.M. (2020) 2020 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 2 sites. Final report prepared for Caltrans Traffic Operations, District 8, Fontana, CA by Sonoma Technology, Inc., Petaluma, CA STI-920025-7474, November.
- Smith K.M. (2020) 2020 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 10 sites. Final report prepared for Caltrans Traffic Operations, District 8, Fontana, CA Sonoma Technology, Petaluma, CA, STI-920025-7455-FR, October.
- Smith K.M. (2020) 2020 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 2 sites. Final report prepared for Caltrans Traffic Operations, District 8, Fontana, CA Sonoma Technology, Petaluma, CA, STI-920025-7446-FR, October.
- Smith K.M. (2020) 2020 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 8 sites. Final report prepared for Caltrans Traffic Operations, District 8, Fontana, CA by Sonoma Technology, Petaluma, CA, STI-920025-7434-FR, September.

- Smith K.M. (2020) 2020 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 8 sites. Final report prepared for Caltrans Traffic Operations, District 8, Fontana, CA Sonoma Technology, Petaluma, CA, STI-920025-7423-FR, August.
- Smith K.M. (2020) 2020 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 10 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-920025-7418-FR, August.
- Smith K.M. (2020) 2020 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 2 O'Brien site. Audit report prepared for Highway Electrical Contractors, Inc., Lakeport, CA, STI-920042-7410-FR, July 24.
- Wang N., Penfold B., Hafner H.R., and Smith K. (2020) Twelfth annual report of ambient air quality monitoring at Sunshine Canyon Landfill and Van Gogh Elementary School: a twelve-year summary (November 22, 2007–November 21, 2019). Final report prepared for the Los Angeles City Planning Department and the Los Angeles County Department of Regional Planning by Sonoma Technology, Inc., Petaluma, CA, STI-915026-7404-AR, July 17.
- Smith K.M. (2020) 2020 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 6 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-920025-7407-FR, July.
- Smith K.M. (2020) 2020 quality assurance calibration and maintenance of roadway meteorological instruments at Caltrans District 8 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-920025-7402-FR, July.
- Smith K.M., Beamish J.J., Dunn M.R., Baxter R., and Bush P. (2019) South Coast Air Quality Management District upper-air stations surface meteorological data summary. Prepared for the South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, and T&B Systems, Placerville, CA, STI-919032-7198, November 18.
- Penfold B., Hafner H.R., O'Brien T., and Smith K. (2019) Eleventh annual report of ambient air quality monitoring at Sunshine Canyon Landfill and Van Gogh Elementary School: an eleven-year summary (November 22, 2007–November 21, 2018). Prepared for the Planning Department, City of Los Angeles, CA, and the Los Angeles County Department of Regional Planning by Sonoma Technology, Inc., Petaluma, CA, STI-915025-7149-AR, July 22.
- Hafner H.R., Stanton L.G., Penfold B.M., and Smith K.M. (2018) Air quality monitoring plan for Humphreys Compressor Station (Barnesville, Ohio). Prepared for MarkWest, Cadiz, OH, by Sonoma Technology, Inc., Petaluma, CA, STI-918030-7011, October.
- Smith K.M. and Kong M. (2018) 2018 quality assurance calibration, maintenance, and evaluation of meteorological instruments and pavement monitors at Caltrans District 2 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology Inc., Petaluma, CA, STI-916047-6941-FR, June.
- Smith K.M. and Kong M. (2018) 2018 quality assurance calibration, maintenance, and evaluation of meteorological instruments and pavement monitors at Caltrans District 6 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology Inc., Petaluma, CA, STI-916047-6936-FR, May.

- Penfold B., Hafner H.R., O'Brien T., Smith K., and Seagram A. (2018) Tenth annual report of ambient air quality monitoring at Sunshine Canyon Landfill and Van Gogh Elementary School: a ten-year summary (November 22, 2007–November 21, 2017). Prepared for the Planning Department, City of Los Angeles, CA, and the Los Angeles County Department of Regional Planning by Sonoma Technology, Inc., Petaluma, CA, STI-915025-6935-AR, May 31.
- Smith K.M. and Kong M. (2018) 2018 quality assurance calibration, maintenance, and evaluation of meteorological instruments and pavement monitors at Caltrans District 10 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology Inc., Petaluma, CA, STI-916047-6898-FR, March.
- Smith K.M. and Kong M. (2017) 2017 quality assurance calibration, maintenance, and evaluation of meteorological instruments at Caltrans District 2 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology Inc., Petaluma, CA, STI-916047-6819-FR, November.
- Smith K.M. and Kong M. (2017) 2017 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 1 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-916047-6806-FR, October.
- Smith K.M. and Kong M. (2017) 2017 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 10 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-916047-6790-FR, September.
- Smith K.M. (2017) 2017 quality assurance calibration, maintenance, and evaluation of meteorological instruments at Caltrans District 2 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology Inc., Petaluma, CA, STI-916047-6781-FR, August.
- Smith K.M. (2017) 2017 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 6 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-916047-6757-FR, July 7.
- Dumas J. and Smith K. (2017) Standard operating procedure for Vaisala Ceilometer CL31. Prepared for the University of Texas and the Texas Commission on Environmental Quality by Sonoma Technology, Inc., Petaluma, CA, STI-916039-6711-SOP, June 13.
- Smith K.M. (2017) 2017 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 10 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-916047-6744-FR, June 2.
- MacDonald C.P., Roberts P.T., Smith K.M., and Hafner H.R. (2017) Atmospheric measurements and modeling of the Tehachapi Wind Resource Area (AMMT). Final report prepared for the University of California, Davis, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-915029-6740-FR, June.
- Smith K.M. and Hafner H.R. (2017) 2016 installation and quality assurance calibration of meteorological instruments and roadway sensors at Caltrans District 3 Highway 89 and Rampart site. Final report prepared for Caltrans Traffic Operations, District 3, Marysville, CA by Sonoma Technology, Inc., Petaluma, CA, STI-916070-6645-FR, January.
- Smith K.M. and Hafner H.R. (2016) 2016 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 6 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-916047-6630-FR, December 20, 2016.

- Smith K.M. (2016) 2016 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 10 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-916047-6610-FR, December 9.
- Smith K.M. (2016) 2016 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 2 sites. Final report prepared for Caltrans Traffic Operations, District 8, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-916047-6603-FR, November 10.
- MacDonald C.P., Roberts P.T., Smith K.M., and Graham A.R. (2016) Field measurement plan for the atmospheric measurements and modeling of the Tehachapi Wind Resource Area (AMMT). Final report prepared for University of California at Davis, Davis, California by Sonoma Technology, Petaluma, CA, STI-915029-6509-FR, June.
- MacDonald C.P., Roberts P.T., and Smith K.M. (2015) Summary of meteorological measurements for Windsense. Final report prepared for the University of California, Davis, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913075-6263-FR, June 12.
- Smith K.M. and MacDonald C.P. (2015) 2015 quality assurance calibration, maintenance, and evaluation of meteorological instruments and pavement monitors at Caltrans District 6 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913065-6252, April 30.
- Smith K.M. and MacDonald C.P. (2015) 2015 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 2 sites. Final report prepared for Caltrans Traffic Operations, District 8, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913065-6202, February 27.
- Smith K. and MacDonald C.P. (2014) 2014 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 10 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913065-6144-FR, December 12.
- Smith K.M. and MacDonald C.P. (2014) 2014 Quality assurance calibration, maintenance, and evaluation of meteorological instruments and pavement monitors at Caltrans District 6 sites. Final report prepared for Caltrans Traffic Operations, District 8, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913065-6090-FR, December 2.
- Smith K.M. and Knoderer C.A. (2014) 2014 quality assurance calibration, maintenance, and evaluation of meteorological instruments and pavement monitors at Caltrans District 6 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913065-6054-FR, August 22.
- Smith K.M. and Knoderer C.A. (2014) 2014 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 10 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913065-6033-FR, August 7.
- Smith K. and Knoderer C. (2014) 2014 quality assurance calibration and maintenance of meteorological instruments and pavement monitors at Caltrans District 10 sites. Final report prepared for Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913065-5995-FR, June 23.
- Smith K.M. and Knoderer C.A. (2014) 2014 quality assurance calibration, maintenance, and evaluation of meteorological instruments and pavement monitors at Caltrans District 6 sites. Final report prepared for

Caltrans Traffic Operations, Fontana, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913065-5959-FR, May 7.

MacDonald C.P., Roberts P.T., McCarthy M.C., DeWinter J.L., Dye T.S., Vaughn D.L., Henshaw G., Nester S., Minor H.A., Rutter A.P., Smith K., and Winegar E. (2014) Ozone concentrations in and around the City of Arvin, California. Final report prepared for the San Joaquin Valley Unified Air Pollution Control District, Fresno, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-913040-5865-FR2, May. Available at http://www.valleyair.org/air_quality_plans/docs/2013attainment/ozonesaturationstudy.pdf.

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Smith K.M., Knoderer C., Ray A.E., and MacDonald C. (2012) 2012 quality assurance audits of the South Coast Air Quality Management District (SCAQMD) surface meteorological network. Final report prepared for the South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-911073-5534-FR, November 7.

Knoderer C.A., Smith K.M., MacDonald C., and Miller D.S. (2011) 2008 through 2010 South Coast Air Quality Management District (SCAQMD) upper-air station data summary. Data summary prepared for the South Coast Air Quality Management District, Diamond Bar, CA, by Sonoma Technology, Petaluma, CA, STI-910015-4169, August 3.