

Sue Kimbrough, Senior Project Engineer in EPA's National Risk Management Research Laboratory

Air and Energy Management Division

[Mailing Address](#)

Kimbrough.sue@epa.gov

Area of Expertise:

- Near-road/near-source emissions characterization
- Traditional measurement technologies (Federal Reference and Equivalent Methods)
- Low-cost sensors
- Emerging sensor technologies
- Mobile measurement techniques

Select Publications:

Kimbrough, S., Hanley, T., Hagler, G., Baldauf, R., Snyder, M., Brantley, H., 2018. [Influential factors affecting black carbon trends at four sites of differing distance from a major highway in Las Vegas](#). *Air Quality, Atmosphere & Health*, 11(2): 181:196.

Richmond-Bryant, J., Snyder, M.G., Owen, R.C., **Kimbrough, S.**, 2017. Factors associated with NO₂ and NO_x concentration gradients near a highway. *Atmospheric Environment*, 174: 214-226.

Kimbrough, S., Chris Owen, R., Snyder, M., Richmond-Bryant, J., 2017. [NO to NO₂ conversion rate analysis and implications for dispersion model chemistry methods using Las Vegas, Nevada near-road field measurements](#). *Atmospheric Environment*, 165: 23-24.

Steffens, J., **Kimbrough, S.**, Baldauf, R., Isakov, V., Brown, R., Powell, A., & Deshmukh, P. 2017. [Near-port air quality assessment utilizing a mobile measurement approach](#). *Atmospheric Pollution Research*, 8(6): 1023:1030.

Richmond-Bryant, J., Chris Owen, R., Graham, S., Snyder, M., McDow, S., Oakes, M., **Kimbrough, S.** 2017. Estimation of on-road NO₂ concentrations, NO₂/NO_x ratios, and related roadway gradients from near-road monitoring data. *Air Quality, Atmosphere & Health*, 10(5): 611-625.

Kimbrough, E.S., M.D. Hays, W. Preston, D. Vallerio, and G. Hagler. 2016. [Episodic Impacts from California Wildfires Identified in Las Vegas Near-Road Air Quality Monitoring](#). *Environmental Science & Technology*, 50(1): 18-24.

View more research publications by [Sue Kimbrough](#)

Education:

- B.S., Vanderbilt University, Nashville, TN; Environmental Science, 1976

Professional Experience:

Projects and Workgroups

- Technical Lead, Phoenix as a Testbed for Air Quality Sensors (P-TAQS)
- Technical Lead, Kansas City Transportation and Local-Scale Air Quality Study (KC-TRAQS)

Committees and Affiliations

- Guest Editor, Special Issue, Near-Source Air Pollution – International Journal of Environmental Research and Public Health
- Air & Waste Management Association

Awards and Honors

- EPA Bronze Medal, Black Carbon Sensor Team (2016)
- Semifinalist – 2017 Innovations in American Government (Village Green Project)
- EPA Bronze Medal, ACE-National Program Team (2015)
- U.S. EPA Science and Technology Achievement Awards – Honorable Mention (2014), *Air quality variability near a highway in a complex urban environment [(Atmospheric Environment, 64:169-178 (2013)]*
- ORD Teamwork Award, EPA/FHWA Near-Road Research Team (2012)

[Science Matters: Advancing Air Quality Measurement Capabilities and Engaging a Kansas Community in Citizen Science](#)
[Kansas City Transportation and Local-Scale Air Quality Study](#)