



## Megan E. McCabe

*Atmospheric Scientist*

Ms. McCabe joined Sonoma Technology as an Atmospheric Scientist in 2024. Her work focuses on conducting technical analyses using advanced emissions and air quality models to address complex environmental issues and help clients meet regulatory requirements. She is currently working on a range of transportation, litigation, and regional and local air quality modeling projects.

Megan previously served as an Air Quality Specialist at an engineering firm where she contributed to regulatory compliance efforts across diverse industrial sectors. This work included permitting for large industrial facilities, ensuring National Environmental Protection Act (NEPA) compliance, and preparing environmental statements. She helped with air pollutant emission inventories, greenhouse gas inventories, and air quality modeling. Ms. McCabe used the Environmental Protection Agency (EPA) dispersion model AERMOD for regulatory compliance work. Her greenhouse gas projects included inventories at corporate (including scope 1, 2, & 3 emissions), project, facility, and regional scales.

During her graduate studies, Ms. McCabe worked on quantifying methane emissions around concentrated animal feeding operations, which included isolating the emissions from nearby oil and natural gas facilities. This project was funded by the National Science Foundation. Her contributions included airborne data collection using gas spectrometers for various air pollutants and rigorous data analysis. Her research integrated meteorological data and employed attribution methods such as a subtraction method using a tracer ratio and the multivariate regression method to optimize methane quantification from concentrated animal feeding operations.

Ms. McCabe is experienced with Python, Matlab, MS Office, and Linux.

### Education

- MS, Atmospheric Science, University of Wyoming
- BS, Atmospheric Sciences, University of North Dakota

### Memberships

- Air & Waste Management Association
- American Geophysical Union