

# COURTNEY A. TAYLOR

## Senior Managing Consultant

Ms. Courtney Taylor, M.S., is an Atmospheric Scientist with 20 years of experience in the air quality field. Ms. Taylor's comprehensive skill set includes atmospheric modeling, emissions inventory development and review, ambient air monitoring, and project management and coordination. Her diverse project experience spans the United States, and includes National Environmental Policy Act (NEPA) analyses, modeling for State Implementation Plan (SIP) analyses, Resource Management Plans (RMPs), Prevention of Significant Deterioration (PSD) permits, and minor source permits. The analyses have included many industrial sectors including upstream and downstream oil and gas, mining (predominantly coal), electric generating units, and ethanol production.

She is an expert modeler for both steady-state dispersion models (AERMOD and ISC3), Lagrangian models (CALPUFF), and emissions inventory development for photochemical grid modeling (CAMx, CMAQ, and SMOKE). In addition, Ms. Taylor has been the air task coordinator for several large multi-media projects and project manager for multiple photochemical grid modeling projects. She has contributed to expert reports and affected regulatory change at the national level via comments on proposed rules. Ms. Taylor translates complex technical information into key information for decision-makers and approachable concepts for public communication.

## PROJECTS

Ms. Taylor has been involved in dozens of air quality studies (including those prior to joining Ramboll). Those projects related to SIP modeling or air management planning in areas with elevated ozone and oil and gas activities are as follows:

- **Weld County, Technical Support Services, Colorado**
- **Weld County, Ambient Air Quality and Meteorological Monitoring Network Installation, Colorado**
- **City of Fort Collins, Oil and Gas Air Quality Support, Colorado.**
- **City of Fort Collins, Dust Control Manual, Colorado**
- **Wyoming Department of Environmental Quality – Division of Air Quality, Winter Ozone Modeling Project for SIP, Wyoming.**
- **BLM, Air Resource Management Strategy Modeling Project, Utah.**
- **BLM, CMAQ Emissions Inventory Development, Utah.**
- **BLM, Powder River Basin Phases I and II, Wyoming and Montana**



## CONTACT INFORMATION

**Courtney A. Taylor**

[CTaylor@ramboll.com](mailto:CTaylor@ramboll.com)  
+1 (970) 237-4331

Ramboll  
Fort Collins, CO 80256  
United States of America

## EDUCATION

**MS, Atmospheric Science**  
Colorado State University,  
Fort Collins, Colorado

**BA, Environment,  
Economics, and Politics,**  
*Cum Laude*  
Claremont McKenna College,  
Claremont, California

## CAREER

2018

### Managing Consultant

Ramboll (formerly Ramboll Environ)

2007-2018

### Senior Air Quality Scientist and Denver Metro Air Quality Practice Manager

AECOM, Fort Collins, Colorado

2004-2006

### Research Assistant

Colorado State University, Fort Collins, Colorado

2001-2003

### Data Analyst

Sonoma Technology, Inc., Petaluma, California

## PUBLICATIONS AND PRESENTATIONS

Representative publications include:

Taylor, C., 2018. "Ozone in the West: Do We Have the Right Tools in Our Toolbox?" Rocky Mountain Mineral Law Foundation Special Institute on *Air Quality Issues Affecting Oil, Gas, and Mining Development and Operations 3-1* (Rocky Mt. Min. L. Fdn. 2018). February.

Kaplan, M., Paine, R., Taylor, C., Rodriguez, M., 2017. "Uncertainties of Long-Range Concentration Predictions from Photochemical Grid Models" Presented at AWMA Guidelines on Air Quality Models Conference, Chapel Hill, NC, November.

Paine, B., Taylor, C., and Rodriguez, M., 2017. "Ozone and PM<sub>2.5</sub>: Ongoing Challenges for New Source Permitting" *Natural Gas and Electricity Journal*. Volume 34 Issue 4, pg. 9-34, November.  
<https://doi.org/10.1002/gas.22015>

Taylor, C., 2017. "Regional Modeling Instabilities and Implications for Past Regulatory Actions" Presented at AWMA Rocky Mountain Section Meeting, Denver, CO, May.

Paine, B., Rodriguez, M., and Taylor, C., 2016. "New Source Review Permitting Challenged by Ozone Modeling Requirements" *Natural Gas and Electricity Journal*. Volume 33 Issue 3, pg. 10-15, October  
<https://doi.org/10.1002/gas.21935>

Taylor, C., Rodriguez, M., Chien, C., Shaw, C., Samuelson, T., and L. Herr, 2014. "Utah Bureau of Land Management's Air Resource Management Strategy (ARMS) Modeling Study: Potential Impacts to Winter Ozone Formation using Future Emission Scenarios" Poster presented at Community Modeling and Analysis System Conference, Chapel Hill, NC, October.

Taylor, C.A., 2013. "Utah Air Resource Management Strategy (ARMS) Oil and Gas Emissions Inventory". Presented at Western Modeling Workshop Boulder, CO, July.

Taylor, C.A., DeBell, L., Driscoll, C., Shaw, C., 2012. "A Case Study of Two Oil and Gas EIS: The Importance of Absolute Model Predictions". Presented at AWMA specialty visibility conference Whitefish, MT, September.

Taylor, C.A., Paine, R.J., McKean, P.R., Connors, J.A., 2008. "A Variance-based Sensitivity Analysis of CALPUFF Nitrate Formation as a Function of Selected Chemical Inputs." Presented at AWMA specialty visibility conference Moab, UT, May.

Collett, J., S. Raja, C. Taylor, C. Carrico, F. Schwandner, K. Beem, T. Lee, A. Sullivan, D. Day, G. McMeeking, S. Kreidenweis, J. Hand, B. Schichtel, and W. Malm. 2007. "Nitrogen Transport and Deposition during the Rocky Mountain Airborne Nitrogen and Sulfur (RoMANS) Study." *EOS Transactions AGU* 88(52), Fall Meeting Suppl., AGU Fall Meeting, San Francisco, Dec. 10-14.