



STATEMENT OF QUALIFICATIONS

HISTORY & FOUNDING

Tipple Consulting was founded by Nate Tipple in 2021, but our roots go back to 2007 and Nate's first engineering class at the Colorado School of Mines. As a student, Nate completed an internship with a small air quality consulting firm located in Golden, CO. While the internship involved more printer maintenance than air quality consulting, it didn't take long for it to turn into a full-time role in air quality engineering. Armed with a silver-plated diploma for his Bachelor of Science in Mechanical Engineering, Nate began down the career path of air quality consulting. He learned ArcGIS to fill a gap within that company and quickly became recognized as the go-to mapping guy. Before long, he began managing projects and working closely with his colleagues to develop emission inventories, perform atmospheric dispersion models, obtain and modify air permits, and develop methods for tracking compliance with air permits and regulations. Nate gained valuable experience in the mining, food processing, and wood products industries.

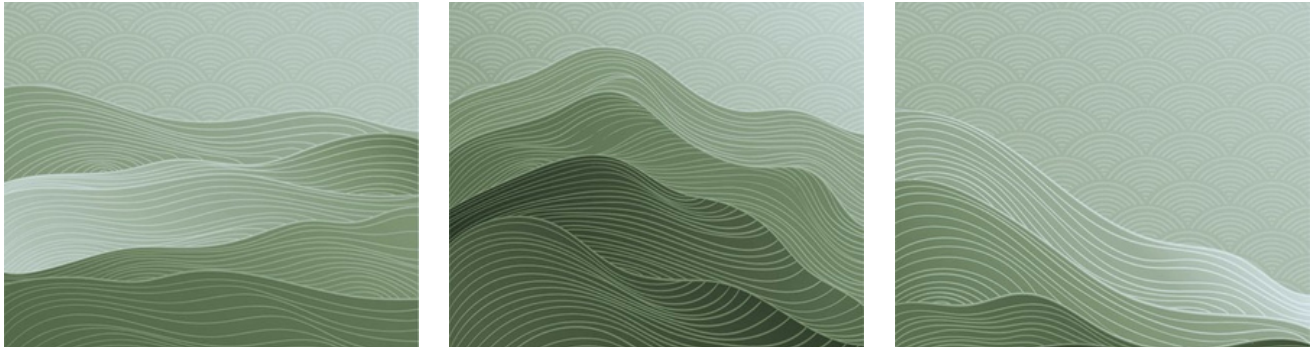
After seven years working in Golden, Nate joined an even smaller air quality consulting firm in Denver, CO. He used his expertise in air quality consulting and project management in a new industry: oil and gas. During his time in Denver, he honed his management skills, trained several new employees, learned new regulations applicable to the Colorado oil and gas industry, and began participating in regional air quality planning meetings. After a brief period working for a methane monitoring company in Boulder, CO, Nate decided to begin his own air quality consulting company located in his hometown of Elizabeth, CO.

CONTACT INFO

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PORTFOLIO OF WORK

Our staff has experience working on a variety of projects* across industries. Below are a few notable examples.

ARIZONA COPPER PROJECT

Since 2012, we've worked on a large copper project in Arizona. We created the emission inventory from the ground up, supported the air resources section of the Environmental Impact Statement, helped monitor and process the onsite ambient air quality data collected, performed the atmospheric dispersion models. We continue to support the ongoing dispersion modeling, air permitting, as well as the reduction and mitigation of greenhouse gases associated with this project.

PSD MODIFICATION FOR TRIBAL ENHANCED OIL RECOVERY PROJECT

In 2018, we modified a Prevention of Significant Deterioration (PSD) permit for a field-wide oil and gas operator using carbon dioxide for tertiary oil recovery. This permit was one of the most unusual permits we've seen because the PSD permit was mandated under a federal consent decree. Although this facility was located on Navajo land, the tribe designated authority to EPA Region 9. This project had many stakeholders with diverse interests.

REGULATION COMPLIANCE & REPORTING

Some regulations, like Colorado's Regulation 7 for oil and gas operations, are notorious for changing very frequently (lately, it's been yearly!). We have developed compliance tracking methods and routinely submitted compliance and emission reports for large and small oil and gas companies.

DISPERSION MODELING FOR COLORADO SAWMILL

To demonstrate compliance with national particulate matter standards, we set up and ran repeated iterations of AERMOD. By collaborating with the modeling experts at the state agency, we developed a model that was both protective of public health and representative of actual operations. Since the EPA does not publish emission factors for sawmills, this project included extensive research to identify the most appropriate emission factors.

AMBIENT AIR MONITORING

While Tipple Consulting does not provide air quality monitoring services, we have experience setting up systems to organize, display, QA/QC, and report meteorological and air pollution data. We also have experience working with and troubleshooting the instrumentation used to collect much of this data. We work with several other firms that provide baseline air monitoring services, and we'd be glad to provide you with their contact information.

TRACKING AIR QUALITY POLICY & REGULATIONS

We participate in several state and local councils, trade groups, and agency meetings. This participation helps us stay informed of the regulatory environment and air quality history for some of the regions in which we work.

*These projects represent experience while at Tipple Consulting and at previous positions.

SUMMARY OF SERVICES

AIR QUALITY PERMITTING

Working with the appropriate regulatory agencies to obtain and modify air quality permits can be confusing, complex, and time-consuming. Tipple Consulting has worked with all types of permits. These include dust control, general, true minor, synthetic minor, Title V, and PSD permits. We have worked with many local, state, federal, and tribal agencies, frequently collaborating with multiple agencies for a single permit. The permitting process is usually more than just an application. The process may involve negotiations with the appropriate agencies, atmospheric dispersion modeling, control technology analyses, and reviewing draft permits to ensure a facility understands the requirements to which it will soon be subject. Maintaining relationships with regulators also plays an integral role in the permitting process.

AIR QUALITY COMPLIANCE & REPORTING

For most industrial facilities, documenting and demonstrating compliance with air quality permits and regulations is essential for daily operations. Often, records must be kept and provided only upon agency request. Other times, periodic reports are required. Examples of reports include annual emission reports, the federal greenhouse gas report, and other agency-specific reports. Tipple Consulting has extensive experience in creating recordkeeping systems, preparing and submitting required reports, and training our clients. It can sometimes be challenging to remain compliant because many provisions are only provided in the regulations and are not in the permit. At a minimum, facilities must be aware of the conditions outlined in their air permit(s), rules governing the facility as a whole, and regulations on specific equipment operated on site.

ATMOSPHERIC DISPERSION MODELING

An atmospheric dispersion model is commonly used to support air permit applications. This type of model helps demonstrate that a facility will not cause or contribute to a violation of the National Ambient Air Quality Standards (NAAQS). The EPA's preferred dispersion model, AERMOD, is used for many demonstrations of this nature. AERMOD is a steady-state Gaussian plume model based on concepts of planetary boundary layer turbulence structure and scaling. Tipple Consulting can prepare and execute these models for all types of air emissions sources. We work with several contractors if specialized modeling is required, such as long-range modeling with CALPUFF.

OTHER

We consider ourselves jacks of many trades and have experience with many types of air quality-related projects, including greenhouse gas mitigation; visibility modeling; nitrogen, sulfur, and particulate deposition; regulatory analysis; moisture plume visibility modeling; environmental impact statement (EIS) support; data analysis and visualization; geospatial data manipulation; staff training; independent third-party review; compliance auditing; and more. Additionally, we partner with several exceptionally talented firms for more specialized services, including air quality monitoring, process modeling, and specialized modeling. We invite you to visit our website or send us an email to find out if we are the right fit for you.

Note from the Founder

I want to sincerely thank you for taking the time to read our statement of qualifications. I know you have many choices for air consultants, and I'm honored that you would consider us! You can reach me directly at nate@tipple.consulting if you have any questions, comments, or want to catch up.

– Nate Tipple, Founder of Tipple Consulting