

## JEFF LEADFORD, PE

### Education

BS – Chemical Engineering, University of Colorado, 2011

### Specialty Certifications

Professional Engineer (OR), HAZWOPER 40 Hour Training, FAA Remote Pilot

### Professional Experience

Jeff Leadford is a Senior Project Professional with more than 9 years of experience in the air quality field. His specialties include air dispersion modeling, emission inventory production, GIS mapping, and air monitoring. Since joining SCS Engineers in February 2019, Jeff has created emission inventories, submitted reports, and ran air dispersion modeling on numerous landfills in the Pacific Northwest. He has filled out and submitted semi-annual and annual reports for a dozen landfills in the Pacific Northwest to comply with NSPS Subpart WWW as well as state regulations. In addition, calculated and submitted greenhouse gas reports to comply with 40 CFR Part 98 as well as state requirements. Following are examples of his project experience:

#### Air Quality Consulting

Project manager for:

- **Kaiser Premier (Air Sciences Inc):** Perform all air quality consulting services for this tank manufacturer in Fort Morgan, CO. Completed and submitted bi-annual compliance report per 40 CFR Part 63 Subpart M. Consulted the facility on which chemicals to use in order to stay in compliance.
- **GWRLRC (SCS Engineers):** Ran air dispersion modeling and performed a meteorological analysis from the ground up on this landfill in Wenatchee, WA.
- **CCA (SCS Engineers):** Ran air dispersion modeling and performed a meteorological analysis from the ground up on this Cannabis Grow Operation in Buellton, CA.
- **Comstock (Air Sciences Inc):** Wrote and submitted the major and Title V permit applications for this gold mine in Nevada. Facilitated all interactions with NDEP (Nevada Department of Environmental Protection). Also performed all emission inventory, AERMOD modeling, compliance, and regulation applicability.
- **Western 102 Power Plant (Air Sciences Inc):** Perform all air quality consulting services for this facility in Nevada, including annual compliance reports and annual electronic greenhouse gas reporting (eGGRT). Wrote and submitted the most recent permit renewal in 2016 and updated AERMOD modeling and GIS figures.

#### Landfill Reporting

Filled out and submitted semi-annual and annual reports for a dozen landfills in the Pacific Northwest to comply with NSPS Subpart WWW as well as state regulations. In addition, calculated and submitted greenhouse gas reports to comply with 40 CFR Part 98 as well as state requirements.

**Cleaner Air Oregon**

Constructed a large-scale emission inventory to calculate and model all pollutants emitting from operations at the Chemical Waste Management of the Northwest (CWMNW) hazardous waste landfill in Eastern Oregon.

Assisted facilities recently required to model air pollutants per Cleaner Air Oregon. Built and ran AERMOD model setups for more than a dozen facilities across Oregon from the ground up, including emission inventories, AERMET meteorological processing, and GIS setup.

**Air Quality Monitoring**

Performed on-site monitoring and research on the Owens Lake and Salton Sea dust mitigation projects. Lived on-site in Lone Pine, CA for a year and provided continuous support after. Tasks included:

- Installed and audited meteorological sensor towers, continuous ambient particulate TEOM monitors, and Sensit erosion sensors.
- Routinely assessed data recovered from monitoring equipment and troubleshoot discrepancies.
- Made sure data was correctly recorded by the field sensors, sent through a radio telemetry network, and helped set up the web portal to display real-time data.
- Performed weekly Level 1 quality assurance on all monitoring data on the Owens Lake web portal from 2015 through 2018.
- Managed all GIS work for the project, including keeping an up-to-date telemetry network and making detailed posters and figures as needed.

**Owens Lake Solar Demonstration Project**

Managed a project assessing three different configurations of solar panel arrays on Owen Lake to determine which arrays successfully decreased ground wind speeds, and thus decreased dust emissions. Set up wind speed sensors and a local meteorological tower and routinely audited the project and monitored data.

**Noise Monitoring**

Performed noise monitoring on wind turbines in Michigan for three weeks, conducting an analysis to insure that the decibel threshold was not exceeded beyond the property boundary.

**Research and Development**

Worked as a research and development intern at Septodont for over one year. Work included:

- Produced batches and conducted various tests on photo-polymerizable dental restoration materials, and made conclusions about the results.
- Constructed scientific plans on how to most efficiently analyze materials.
- Gave an oral presentation on my research at the 2010 AADR (American Association of Dental Research) convention in Washington, DC.