

ANDY SHEPPARD

Education

BS – Meteorology, North Carolina State University, 2009



Professional Experience

As a Senior Project Manager in SCS' Raleigh, NC office, Andy Sheppard is responsible for regulatory and enforcement tasks related to the design and operations of landfills and solid waste facilities for private and public clients. His experience includes regulatory & compliance reporting, air quality and solid waste permitting, air quality and solid waste regulation and correction, and weather forecasting. Andy's experience also includes project management, data analysis and research, stakeholder and regulatory agency communication, and community outreach. Before joining SCS, Andy was a scientist at the US Environmental Protection Agency, where he assisted in the development of NSPS and EG for the Municipal Solid Waste and Oil and Natural Gas sectors as well as the development of an Information Collection Request for Oil and Gas NESHAP.

Air Quality Regulations

Environmental Protection Agency (EPA), Municipal Solid Waste Landfill Air Sector Lead. Led rule development and implementation effort for the 2016 New Source Performance Standards (NSPS), Subpart XXX, 2016 Emission Guidelines (EG), Subpart Cf, and National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart AAAAA, for Municipal Solid Waste Landfills.

Environmental Protection Agency (EPA), Oil and Gas Rule Updates. Assisted in the development of the New Source Performance Standards (NSPS), Emission Guidelines (EG), and National Emission Standards for Hazardous Air Pollutants (NESHAP) for the Oil and Gas sector.

Prior Experience

Air Quality Professional, EHS Support, 2023 – 2024. Prepared annual emissions reports such as state emissions inventories, greenhouse gas (GHG) reports, and Toxics Release Inventory (TRI) reports, as well as other period compliance reports (Title V deviation reporting, NESHAP compliance reporting, etc.). Completed state and federal air permit applications, including emission inventories, synthetic minor strategies, and other associated technical documents. Conducted air dispersion modeling for permitting actions. Provided accurate technical calculations and effective written communication to contribute to project deliverables. Conducted regulatory research and provided meaningful interpretations for clients. Corresponded with federal, state, and local regulatory agencies. Audited regulatory compliance and management systems at the plant and corporate levels. Remained abreast of existing regulations and continually reviewed new and proposed regulations as they related to clients. Used technical expertise to guide facilities through federal, state, and local air quality permitting and compliance requirements.

Physical Scientist, Environmental Protection Agency, 2016-2023. Project manager for the landfill sector air rules and regulations. Certified Contracting Officer's Representative for landfill work-related contracts. Worked with stakeholders and states on the development and implementation of the New Source Performance Standards (NSPS), Emission Guidelines (EG), and National Emission Standards for Hazardous Air Pollutants (NESHAP) for Municipal Solid Waste Landfills and Oil and

Natural Gas industries. Led efforts to focus on better methane and greenhouse gas data from various emission points. Prepared and promulgated multiple regulations, technical corrections, and other notices on difficult timelines. Led various workgroups with diverse membership including scientists, communication experts, attorneys, enforcement, and policy team members. Maintained consistent outreach and communication with communities, states, industry, and other stakeholders. Presented at conferences and worked very closely with stakeholders and other offices on rule development and implementation. Assisted in the development of NSPS and EG for the Oil and Gas sector as well as the development of an Information Collection Request for Oil and Gas NESHAP. Led and implemented a new focus on Environmental Justice within EPA. Integral team member and leader on multiple Environmental Justice and Outreach teams and groups. Developed and defined the concept of 'meaningful engagement' as part of the General Provisions update to the NSPS program. Developed and participated in multiple outreach events for environmental justice communities, tribal nations, and small businesses.

Atmospheric Data Analyst, Panasonic Weather Solutions, 2014-2016. Completed daily statistical quality analysis on Panasonic's TAMDAR network of weather data from commercial airlines. Provided the forecast for large weather events for various partner airlines. Conducted multiple training sessions on PWS tools, ranging from life cycle management systems to forecasting tools.

Environmental Scientist, URS, 2010-2014. Completed Air Quality Modeling including AERMOD, compliance modeling, PSD modeling, risk modeling, permit modeling, toxic modeling, and NAAQS. Worked extensively on multiple NSPS/EG/NESHAP rules, including assisting various trade organizations by running statistics on large emissions databases using EPA guidelines and assisting these organizations with their response and cost analysis. Analyzed raw meteorological data for data quality and used the meteorological data in AERMET and AERMOD. Completed air emission inventories and permit preparation for various companies across various industries. Completed investigative modeling for multiple data center's air permit, and eventual PSD permitting.

Publications and Presentations

"Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014, and Have Not Been Modified or Reconstructed Since July 17, 2014", 86 FR 27770, May 21, 2021

"National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills Residual Risk and Technology Review". 85 FR 17244, March 26, 2020