

MATTHEW S. LAMB

Senior Scientist - Raleigh, NC

Academic Credentials:

B.A. Environmental Studies, 1995
University of North Carolina at Wilmington, NC

M.S. Environmental Management, 2013
University of Maryland, University College, MD

Duties:

2006 - Health and Safety Officer

Professional Training:

OSHA 40-Hour Health and Safety Training
(29 CFR.1910.120)

Transportation of Dangerous Goods Training
(HM181-126F-215B & IATA)

Employment Record:

2003 - Present - Smith Gardner Inc.

2001 - 2003 - URS Corporation

1995 - 2001 - Pollution Prevention Engineering, P.A.

Principal Areas of Expertise:

Air Permit Compliance and Modeling

Landfill Gas to Energy (LFGTE) Feasibility Evaluation

Landfill Gas Monitoring and Compliance

NPDES Storm water and Wastewater Compliance

Oil Pollution Prevention Act Compliance, including
Spill Prevention, Control, and Countermeasure
Plan Development

Professional Activities:

Air and Waste Management Association (AWMA)

Carolinas Air Pollution Control Association

U.S. EPA Landfill Methane Outreach Program

Selected Publications & Presentations:

Lamb, Matt. "A Case Study of Siloxane Analysis Techniques at a Multi-engine Landfill" SWANA's 37th Annual Landfill Gas Symposium, Monterey, CA. Presented March 27, 2014

Lamb, Matt. "Sustainable Conversion of Waste to Energy - Existing and Emerging Technologies: Successes and Challenges" 3rd Annual Sustainability Symposium and Expo, Leland, NC. Presented March 22, 2013 (co-presenter Gregory Brinkley, Waste Industries USA, Inc.)

Lamb, Matt. "Federal Combustion Rules put States on Shaky Ground - Breaking the LFGTE Permit Log Jam" 16th Annual LMOP Conference and Project Expo, Baltimore, MD. Presented January 31, 2013

Lamb, Matt. "Landfills and the Mandatory Greenhouse Gas Reporting Rule." 2010 NC SWANA Conference, Asheville NC. Presented April 27, 2010.

Lamb, Matt. "Estimating the Value of Your Landfill Gas to Energy Project." 13th Annual LMOP Conference and Project Expo, Baltimore, MD. Presented January 12, 2010.

Lamb, Matt. "Breaking the LFGTE Permit Log Jam - NC Interpretation of Federal Combustion Rules may have Impacts Beyond State Lines



Mr. Lamb has provided landfill gas and air consulting services throughout the United States. As a compliance specialist, he has provided practical solutions to complex regulatory issues. Mr. Lamb's main field of expertise is air compliance and permitting has included Title V and PSD permits, NESHAP, MACT, and BACT standards, and New Source Pollution Standards (NSPS) for landfills and LFG-fired engines.

Mr. Lamb's main field of expertise is air compliance and permitting. He is proficient with state air regulatory agencies and rules, as well as federal programs including Title V federally enforceable permits, National Emission Standards for Hazardous Air Pollutants (NESHAP) and Maximum Achievable and Best Available Control Technology (MACT, BACT) standards, and New Source Pollution Standards (NSPS) for MSW landfills. Projects in which Mr. Lamb has played a lead or management role include:

- Landfill Gas to Energy (LFGTE) Project Development
- Transition from Subpart WWW to Subpart XXX NSPS
- Title V Permit Application Submittal and Compliance
- Carbon Credit Validation and Verification
- Air Emission Inventory Reporting
- Gas Collection System Design and Installation
- Tier 1 and Tier 2 Landfill Gas Generation Rate Sampling and Reporting
- Startup, Shutdown, and Malfunction (SSM) Plan Development and Implementation
- Landfill Gas Generation Rate Modeling

Growing interest in LFGTE projects, as well as increased awareness of our changing climate has brought more focus on emissions from active and closed landfills. Mr. Lamb has evaluated and assisted in developing numerous projects ranging in size from 4,800 standard cubic feet per minute (scfm) to 200 scfm. In addition, Mr. Lamb continues to work with the Climate Action Reserve to bring landfill methane greenhouse gas credits to the market.

Matt has managed due diligence assessments to assist municipalities and private developers seeking to acquire LFGTE projects at sites across the country. These projects have included mid-sized medium Btu direct use to boiler, LFG to electricity, and high Btu pipeline injection. During this effort, Mr. Lamb performed or managed LFG generation and collection potential evaluations, waste stream assessment and 10-year projections, LFG sample collection and analysis, compliance evaluations and projections, and Phase 1 Environmental Site Assessments.

As the rules regulating landfills and related LFG emissions have gone through recent revision, Mr. Lamb has analyzed the impact on new and existing sources, as defined by 40 CFR Subparts XXX and Cf, respectively. He has authored guidance documents discussing new requirements and pending compliance deadlines.

Beyond LFGTE, Mr. Lamb has assisted solar renewable energy facilities to obtain tax incentives and permits necessary for project success.