



CREDENTIALS

- ♦ *B.S. Environmental Engineering, Georgia Institute of Technology, 2013*
- ♦ *M.S. Environmental Engineering, Georgia Institute of Technology, 2014*

PROFESSIONAL EXPERIENCE

- ♦ *June 2024 – Present: ALL4 LLC, Birmingham, AL – Water Tech Team Lead*
- ♦ *April 2020 – May 2024: ALL4 LLC, ATL Office (Remote) – Managing Consultant*
- ♦ *October 2018 – March 2020: ALL4 LLC, ATL Office – Consulting Engineer*
- ♦ *February 2018 – October 2018: ALL4 LLC, ATL Office – Project Engineer*
- ♦ *February 2015 – February 2018: International Paper/Graphic Packaging International Augusta, GA Mill – Environmental Engineer I, II, Environmental Process Manager*

TECHNICAL EXPERTISE

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| ✓ <i>Wastewater discharge reporting</i> | ✓ <i>Clean Water Act (CWA) Hazardous Substances Facility Response Plan (FRP) rule applicability evaluations</i> |
| ✓ <i>Industrial National Pollutant Discharge Elimination System (NPDES) permitting and compliance</i> | ✓ <i>Toxics Release Inventory (TRI) reporting</i> |
| ✓ <i>NPDES Anti-degradation Analyses</i> | ✓ <i>Foul condensate collection and treatment reporting for pulp and paper mills</i> |
| ✓ <i>Industrial stormwater reporting and permitting</i> | ✓ <i>State and Federal air permit programs including Title V, construction permit applications, and minor source permitting</i> |
| ✓ <i>Stormwater Pollution Prevention Plan (SWPPP) preparation</i> | ✓ <i>Prevention of Significant Deterioration (PSD) analyses and permitting</i> |
| ✓ <i>Surface water withdrawal permitting</i> | ✓ <i>CERCLA Reportable Quantity (RQ) emergency release reporting and development of calculations, policy, and training</i> |
| ✓ <i>Pretreatment/Significant Industrial User (SIU) permitting</i> | ✓ <i>Air compliance reporting</i> |
| ✓ <i>Best Management Practices (BMP) Plan review and development (pulp and paper)</i> | |
| ✓ <i>Surface water and groundwater withdrawal permitting and reporting</i> | |
| ✓ <i>Air compliance auditing</i> | |

PROFESSIONAL OVERVIEW

Lizzie Smith has ten years of environmental work experience including industry and consulting and both air and water quality. Lizzie has worked with a variety of clients including pulp and paper, wood products, Portland cement manufacturing, power generation, grain processing, and fuel oil terminals in multiple states. She has environmental reporting and/or permitting experience in multiple states including Alabama, Connecticut, Florida, Georgia, Iowa, Kentucky, Louisiana, Michigan, Mississippi, North Carolina, Oklahoma, Pennsylvania, Rhode Island, and South Carolina.

As ALL4's Water Tech Team Lead, Lizzie follows the development and potential impacts of water-related regulations and advancements in water and wastewater treatment technologies.

Lizzie's experience includes three years working in a large pulp and paper manufacturing facility with responsibility for wastewater treatment system operation and compliance, technical leadership on a large scale regulatory-driven wastewater treatment system upgrade project, renewal of the facility's NPDES permit, and onsite laboratory management.



WATER AND WASTEWATER EXPERIENCE

NPDES Permitting, Managing Consultant: GA, LA, MS, NC, OK, RI: *Managed preparation of NPDES renewal and modification applications for facilities in multiple industries and states. Support provided included communication with regulatory agencies, preparation of sampling and analysis recommendations, calculation of technology-based effluent limitations (TBELs) following multiple applicable effluent limitation guidelines (ELGs), and oversight of preparation of application narrative, forms, and supporting materials including maps and figures.*

Onsite Wastewater Support, Consulting Engineer/Managing Consultant: *Provided onsite wastewater compliance support to large pulp and paper mills. Responsibilities included discharge reporting, monitoring laboratory data, monitoring wastewater treatment system operations, and development of operations and maintenance manuals for the wastewater treatment system. Also supported with NPDES compliance inspections.*

Anti-Degradation Analysis Preparation, Managing Consultant: *Managed preparation of antidegradation analyses for use of specialty chemicals and increase in flow and discharge limits at a large manufacturing facility.*

BMP Plan Review, Consulting Engineer: *Performed five-year review of BMP plan for pulp and paper mill, including onsite review of BMP systems and necessary updates to existing plan.*

Industrial Stormwater Support, Managing Consultant: *Managed preparation of Notices of Intent (NOI), Notices of Termination (NOT), coverage applicability determinations, Stormwater Pollution Prevention Plan (SWPPP) review and update, inspections, and individual permit renewals*

AIR QUALITY PERMITTING EXPERIENCE

Title V Renewal and Modification Permit Applications, Managing Consultant: AL, GA, FL, LA, MS, RI: *Managed preparation of Title V Operating Permit renewal applications and minor and significant modification applications with and without construction for facilities in multiple states (Pulp and Paper, Power, Fuel Terminals).*

ENVIRONMENTAL COMPLIANCE REPORTING EXPERIENCE

Greenhouse Gas Reporting, Multiple Clients, Consulting Engineer, Managing Consultant: *Managed preparation of annual greenhouse gas reports utilizing U.S. EPA's Electronic Greenhouse Gas Reporting Tool (e-GGRT) for facilities in Georgia, Alabama, Mississippi, and Kentucky*



Toxic Release Inventory Reporting, Multiple Clients, Managing Consultant: Managed preparation of annual Toxic Release Inventory reports utilizing U.S. EPA's TRIme-WEB tool for facilities in Georgia (Pulp and Paper), Alabama (Pulp and Paper), Florida (Cement), Louisiana (Pulp and Paper), and Mississippi (Pulp and Paper).

Annual Emissions Reporting, Multiple Clients, Managing Consultant: Managed preparation of annual air emissions inventory for a fuel terminal in Rhode Island and pulp and paper mills in Louisiana, Alabama, and Mississippi.

40 CFR Part 63 Subpart S, MM, and DDDDD Semiannual Reporting: Managed preparation of semiannual compliance reporting for 40 CFR Part 63.

CFATS Compliance, Multiple Clients, Managing Consultant: ALL4 lead on CFATS; servicing as Program Manager for CFATS compliance for a large client company. Developed standard operating procedures and compliance binders to satisfy planned measure requirements for facilities in multiple states. Supported CFATS compliance inspections and annual self-audits.