

CAITLIN KEADY

EDUCATION

M.S. – Environmental Engineering, University of Idaho, 2022
B.S. – Mathematics & Environmental Studies, Bates College, 2018

EMPLOYMENT HISTORY

2024 to present – Sevee & Maher Engineers, Inc., Cumberland, Maine, Environmental Scientist/Environmental Engineer
2022 to 2024 – Baxter Brewing Co., Lewiston, Maine, Lab Technician
2019 to 2022 – University of Idaho, Boise, Idaho, Research Assistant
2021 – Katahdin Analytical Services, Scarborough, Maine, Field Technician
2018 to 2019 – Spectrum Resource Group Inc., British Columbia, Canada, Invasive Plant Management Crew Leader

PROFESSIONAL EXPERIENCE

Ms. Keady has professional research, laboratory, and field experience in the environmental studies and consumer packaged goods industries. She also has experience in field sampling groundwater and air quality monitoring at various sites in central and southern Maine, technical report writing, data QA/QC, and researching, collecting, and analyzing data. Her graduate program focused on fluvial geomorphology and bedload transport, giving her expertise in various types of water data and water resources. Ms. Keady also spent time in the field installing and monitoring hydrophones, collecting bedload samples for sieve analysis, and working on river restoration projects.

Ms. Keady's typical project assignments have included:

Water Data and Resources

- Created a GUI in Python to calibrate a site-specific sediment transport equation to predict bedload transport in gravel bed rivers.
- Installed and monitored hydrophones, collected and analyzed bedload samples, predicted bedload transport during flood conditions, created river restoration plans.

Field and Laboratory Research

- Sampled groundwater, wastewater, and leachate at various landfills and businesses in southern and central Maine using peristaltic pumps and manual methods.
- Conducted QA/QC of field data and facilitated interactions with clients and the public.
- Managed all aspects of a quality lab including routine microbiological testing, tracking physical and chemical measurements during manufacturing processes, and managing inventory.

Data Analysis

- Organized and conducted statistical tests on large data sets containing bedload transport data, oceanographic data, and fluvial data.
- Developed code in MATLAB, R, and python to create mathematical models, analyze environmental data, and create graphics.
- Analyzed carbon emissions, generated annual reports, and presented findings including a viable plan to ensure carbon neutrality.