MICHAEL T. LANKENAU

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Objective: *Continue to build a career with environmental data for the advocacy, protection, and monitoring of the environment.*

WORK EXPERIENCE

Environmental Technician – *Draper Aden Associates (DAA)* May 2019 - Present

1030 Wilmer Ave Suite #100, Richmond, VA

- Responsible for the operation, maintenance and calibration of landfill active gas entrainment systems. Perform gas measurements, repair, and maintain measurement equipment at hundreds of individual gas wells.
- Responsible for sampling groundwater and wastewater. Follow established sanitization practices and field sampling protocols for calculation of well purge volumes, decontamination techniques, and operation of peristaltic pumps.
- Thorough understanding of local, state, and federal environmental laws and regulations. Communicate with landfill and onsite renewable energy power plant staff to meet required deadlines and confirm regulatory compliance.

Hydrologic Technician – *United States Geological Survey (USGS)* November 2016 – April 2019

National Water Center, Tuscaloosa, AL

- Routinely monitor, analyze, and measure water level, discharge, index-velocity, water quality (temperature, specific conductance, dissolved oxygen, pH, and turbidity), precipitation, and groundwater data for a multitude of stream gages throughout the state of Alabama under thorough QA/QC guidelines.
- Thoroughly review and publish the above water data for each field site by curating technical written analyses that address the extent of every field visit, measurement, and all computations and corrections to the data.
- Responsible for the construction of stream gage structures along with the installation, maintenance, calibration, and troubleshooting of associated sensing, recording and communications equipment.
- Conduct leveling surveys to establish elevation datums to verify the accuracy of past gage height and discharge records.
- Independently work in the field without immediate supervision in adverse weather conditions and environments.

SKILLS

- Scientific data: collection, measurement, management, consolidation, analysis, and reporting.
- Scientific equipment: Acoustic Doppler Current Profilers (ADCPs) and FlowTracker for discharge measurements, Data Collection Platforms (DCPs), radar sensors, and water quality sondes for instantaneous data collection.
- Software tools: Microsoft Office, Adobe Acrobat Pro, ArcGIS, UUSGS software (Aquarius, SVMobileAQ, QRev), ADCP software (WinRiver II, SonUtils), DCP software (TeraTerm, LinkComm), sonde software (Win-Situ, EcoWatch).
- Programming: ability to program and calibrate a variety of scientific instruments and equipment.
- Construction: safe operation of power tools and use of hardware supplies to build and maintain stream gages.
- Strong communication, writing, teamwork, and interpersonal skills.
- USGS Certifications: Streamflow Measurement using ADCPs, Streamflow Record Computation using ADVM's and Index-velocity Methods, Guidelines for the Operation and Computation of Records of Continuous Water-Quality Monitors, USGS Motorboat Operator Certification.
- Other Certifications: VDEQ Erosion and Sediment Control Inspector & Stormwater Management Inspector, OSHA HAZWOPER 40-hour certified, NAUI Advanced Scuba Diver.

EDUCATION

University of Virginia – Charlottesville, VA
Environmental Sciences Major
Bachelor of Arts | GPA 3.14

Relevant Coursework – GIS Methods; Physical Hydrology; Fundamentals of Ecology; Marine Biology & Coral Reef Ecology; Fundamentals of Geology; Atmosphere & Weather; Topics in Oceanography; Management of Forest Ecosystems; Human Culture and Environmental Change