

ANDREW MALMGREN

agmalmgren@gmail.com

An accomplished licensed wastewater professional with strong professional and academic interest in regional water pollution control seeks opportunity to support Chesapeake Bay Program.

SIGNATURE COMPETENCIES

ENVI
Bentley Openflows
ArcGIS
Microsoft SQL Server

Environmental Engineering
Technical Report Writing
NPDES Permitting
Asset Management

Database Administration
CMMS
Water Quality Chemistry
Trimble GPS Pathfinder

PROFESSIONAL EXPERIENCE

Lancaster Area Sewer Authority | Lancaster, PA | February 2021 to Present

Engineering Support Technician

- ▶ Leading re-establishment of Asset Management program as may be legally required by PA Senate Bill 597.
- ▶ Lead as subject matter expert on ArcGIS and CMMS. Continuously develop new applications and improve existing workflows.
- ▶ Perform routine database administration.
- ▶ Leading upgrade to and implementation of Lucity Online computerized maintenance management system. Primary contact for resolving technical problems. Develop new utilizations and track preventative maintenance programs. Resolved 10+ year technical problem by importing very large backlog of sewer assessment and televising records.
- ▶ Provide high-quality customer service. Provide information to the public as required. Manage meter reading program, resolve issues with customers.
- ▶ Responsible for all PennDOT permitting and utility relocation coordination. Primary point of contact for all PennDOT communications.
- ▶ Facilitate plan reviews, ensuring consistency with Authority standards. Ensure that all construction materials meet Authority standards. Facilitate project approval, inspection, and final acceptance.
- ▶ Develop new workflows for project management to continuously improve efficiency. Responsible for development of new paperless document tracking and review system.
- ▶ Attend progress meetings for construction projects, assist in resolution of problems. Track costs and prepare bid documents.
- ▶ Prepare and review SOPs and training documents. Document existing procedures. Locate continuing education opportunities for department.
- ▶ Review industry literature to stay abreast of new technologies and regulations.
- ▶ Prepare and submit annual Chapter 94 Municipal Wasteload Management reports.
- ▶ Assist in NPDES permit renewal process.

Inframark | Lititz, PA | March 2020 to February 2021

Treatment Plant Operator III / Safety Coordinator

- ▶ Performed daily operations and maintenance at Lititz WWTP.
- ▶ Continued role as safety coordinator; included tracking/reporting of incidents and identification/correction of safety issues.
- ▶ Instrumental in monthly safety committee meeting via conference call.
- ▶ Implemented a new safety program to assure compliance with company-wide program.
- ▶ Led training on compliance with federal and state standards related to hazardous materials.

Inframark | Glen Cove, NY | October 2018 to March 2020

Treatment Plant Operator I / Safety Coordinator

- ▶ Performed daily operations and maintenance of Glen Cove WWTP.
- ▶ Independently responsible for daily sampling and laboratory analysis.
- ▶ Trained and supervised laboratory personnel.
- ▶ Reviewed and changed laboratory procedures to ensure compliance with standard methods while demonstrably improving quality control.
- ▶ Assisted in generation of monthly DMRs, including advanced data analysis and creation of graphs as requested by client. Completed data review and correction and performed daily data entry.
- ▶ Tracked and reported near misses, first aid uses, chemical spills and reportable incidents. Ensured compliance with OSHA and internal standards; planned and led drills.
- ▶ Implemented tool safety policy, visitor/contractor safety program, and updated/digitized evacuation maps.
- ▶ Coauthored regional street work safety policy.
- ▶ Developed and implemented initial response to Covid-19 pandemic, including creation of sanitation schedule and inventory of PPE.

New York Environmental | Port Washington, NY | April 2018 to October 2018

Environmental Consultant

- ▶ Conducted lead, asbestos, and PCB surveys for a wide variety of government clients, as well as in residential properties. Safely performed asbestos/PCB bulk sampling, as well as lead surveys using XRF machine.
- ▶ Explained risks and compliance requirements to property owners and contractors.
- ▶ Conducted observations of work in progress during remediation projects. Prepared field observation reports including photographs. Inspected completed work to ensure compliance with all applicable regulations. Documented and recommended corrections when work practices did not comply with specifications.
- ▶ Created survey reports, work specifications, and created scope of work documents based on bid packages and lab analysis results.
- ▶ Negotiated challenging conversations with contractors.

J.C. Broderick and Associates | Hauppauge, NY | October 2017 to April 2018

Industrial Hygienist

- ▶ Performed surveys for asbestos and lead based paints for municipal clients.
- ▶ Determined scope of work for bulk asbestos sampling and XRF lead based paint surveys.
- ▶ Conducted and documented observations of work in progress during remediation projects, Documented when work did not conform to applicable regulations.

Lehigh County Authority | Allentown, PA | March 2017 to September 2017

Laboratory Technician

- ▶ Performed chemical, physical, and bacteriological analyses of municipal and industrial wastewater samples in accordance with standard methods.
- ▶ Conducted analyses in support of industrial pretreatment program and informed coordinator of violations.
- ▶ Maintained chain of custody and laboratory records and adhered to QA/QC protocols.
- ▶ Collected and analyzed field samples; used LIMS software for data entry.

Lehigh County Authority | Allentown, PA | April 2015 to March 2017

Treatment Plant Operator I

- ▶ Primary focus was to perform daily operations and maintenance of Kline's Island WWTP, a trickling filter plant, including daily chemical testing to aid in process control decisions.
- ▶ Conducted visual inspections and verification of proper equipment operation.
- ▶ Monitored alarm system/SCADA and took appropriate action to correct problems.

EDUCATION

Millersville University | Millersville, PA | Spring 2023

Master of Science Degree, Environmental Systems Management

- ▶ Coursework in remote sensing software and applications, GIS, and hydrology
- ▶ Capstone Course | Fall 2022: Developed resource for incorporation of mycofiltration in stormwater BMPs.
- ▶ Graduate Assistantship | Spring 2022 to Spring 2023: Support undergraduate research projects with GIS, data review/QC, statistical analysis.

Muhlenberg College | Allentown, PA | Spring 2014

Bachelor of Science Degree, Environmental Science

- ▶ Funded Research | Summer 2013: Maintained aquaponics system with aim of developing capacity to produce tilapia in an urban setting. Performed daily maintenance, troubleshooting, and water testing.

OTHER EXPERIENCE

Lancaster Clean Water Partners | Lancaster, PA | November 2022 to Present

Lancaster Watershed Leadership Academy

- ▶ Receiving training in leadership skills and watershed related topics.
- ▶ Starting "Salt Watch" program to measure salinity in streams, will serve as technical lead and manage volunteers.

Pennsylvania State University | Statewide | March 2021 to Present

Master Watershed Steward

- ▶ Received extensive training in watershed related topics and public education/outreach.
- ▶ Regularly represent the extension service at events and provide science-based information to the public.
- ▶ Collaborate on development of educational resources.

Alliance for the Chesapeake Bay | Lancaster, PA | January 2022 to December 2022

GIS Volunteer

- ▶ Provide GIS services and consultation as needed.
- ▶ Track installation of BMPs and grant eligibility.

PUBLICATIONS AND PRESENTATIONS

Pennsylvania Geographical Society Annual Meeting | Map | November 2022

Risks Posed by Aging Sewer Infrastructure to Small Watersheds in Lancaster County

- ▶ Designed and produced map showing risks to waterways from deteriorating sewer pipe.
- ▶ Developed procedures to estimate pipe deterioration and to prioritize repair work by risk to waterways.

LICENSES AND PROFESSIONAL AFFILIATIONS

- ▶ **Pennsylvania Water Environment Association**
 - Public Education Committee Member
 - Government Affairs Committee Member
- ▶ **Eastern Pennsylvania Water Pollutions Control Operators Association**
 - ▶ **PA Class A Wastewater License Subclasses 1 ,2, 3, 5**
 - ▶ **Pennsylvania Notary Public**