

Patricia Haug

Geologist

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Areas of Specialization

- State and Federal Regulatory Programs
- Phase I & II Environmental Site Assessments
- Technical Writing
- Data Validation
- Avian and Protected Species Monitoring
- Geological and Pedological Interpretation

Overview of Experience

- **Phase I Environmental Site Assessments, PA** - Perform Phase I Environmental Site Assessments throughout Pennsylvania in accordance with ASTM E1527-21.
- **NJDEP Preliminary Assessment, Site Investigation and Remedial Investigations, NJ** - Prepare Preliminary Assessment reports and participate in Site Investigation and Remedial Investigation field services.
- **Customer Liaison Services, PA** - Serve as a critical communication hub between customers, project teams, and construction crews as part of a billion dollar utility contract to renew aerial and underground equipment for reliability of services across five counties.
- **Per- and Polyfluoroalkyl Substances (PFAS) Sampling, PA** - Participate in soil, groundwater and potable water sampling for PFAS analysis.
- **Avian and Protected Species Monitoring, DE, MD** - Monitor power line structures and surrounding areas for nests and breeding activities prior to scheduled construction for utility restoration work.

Education

M.S., Geoscience (Geology)
West Chester University, 2020

Certifications

- OSHA 40 Hour HAZWOPER
- OSHA 8 Hour Refresher
- OSHA Confined Space Training
- OSHA 10 Hour Construction Training
- GIS Graduate Certificate
- Master Watershed Steward

Affiliations

- Society of Women's Environmental Professionals (SWEP)
- Penn State Extension

Software

- ArcGIS Online (AGOL)
- ArcGIS Pro
- ArcMap
- AQTESOLV
- Groundwater Vistas
- MODFLOW
- MODPATH



Overview of Experience continued...

- **Residual Waste Characterization, PA**—Collect soils to be characterized for appropriate waste disposal practices.
- **UST Removal Oversight and Sampling, PA** — Observe and record activities of UST removals and conduct post-excavation soil sampling in accordance with PADEP requirements.
- **Routine Groundwater and Wastewater Sampling and Monitoring, PA**— Conduct monthly, quarterly and bi-annual sampling and provide data validation for compliance reporting
- **Safe Water Testing Program, Philadelphia, PA**— Performed scheduling, coordination, oversight, training, inventory and water quality sample collection as part of a long term project to meet EPA's recommendations for safe potable water in the School District of Philadelphia. This multi year program involves more than 300 schools where corrective action is being implemented.
- **Ground Water Well Abandonment, VA**—Provided oversight during well abandonment activities on the grounds of a residential housing development.
- **Asbestos and Lead Paint Survey Oversight, DE, MD, DC**—Supervised on-site survey activities for routine asbestos and lead paint sample collection.

Equipment

YSI ProDSS and Aquaread
MiniRAE 3000 PID
MultiRAE 5-Gas Meter
ISCO GLS Composite Sampler
Mayfly Data Logger

Data Collection

Boring Logs
Low Flow Purge Logs
Three Well Volume Purge Logs