



Julia Atwater

Staff Engineer

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| Expertise | <ul style="list-style-type: none">• Historical research and technical evaluation for litigation support• Soil, sediment, surface water, and groundwater sampling• Environmental data research and analysis |
| Summary | Ms. Atwater is a staff engineer with three years of experience in environmental remediation. She has knowledge in preparing sampling and analysis plans and remedial investigation reports. She has conducted historical and property research to find contaminant sources and pathways, along with assisting future cost allocation and litigation. |
| Professional Experience | <p>Expert Consultant for Sediment and Uplands Cleanup Cost Allocation (2019–Ongoing) Confidential Client, New York</p> <p>TIG Environmental provides litigation support to a private client participating in a Superfund site allocation. The site includes nearly two miles of waterway in a heavily industrialized area of New York state. Contamination at the site includes polychlorinated biphenyls (PCBs) and other chemicals, but PCBs are the primary chemicals of concern. After an initial remedial design phase was completed, regulatory agencies required additional investigation of the study area. Findings from the investigation increased the estimated remedial cost nearly seven-fold. A comprehensive assessment of the watershed is necessary. The client retained TIG Environmental's services for potentially responsible party (PRP) identification and investigation, sampling and data analysis, and expert witness testimony for anticipated cost allocation for remediation of sediments. Since 2019, TIG Environmental evaluated and investigated documents for PRP sites to gather evidence of historical releases related to operations, developed a conceptual site model of the relationships between PRP operations and the contaminated waterway, conducted soil and sediment sampling, and completed forensic data analysis to identify sources of PCB contamination. TIG Environmental also provided and continues to maintain data visualization tools to assist the client in strengthening the connection between contamination in the waterway and adjacent PRPs, identifying PRPs that may not be responsible for contamination, and identifying additional discharge points that may be associated with additional PRPs.</p> <p>Ms. Atwater supported the research of historical remedial and regulatory documentation for industrial sites in the area. This research helps define priority sites and sources of contamination for future cost allocation.</p> <p>Technical Consultation and Allocation/Litigation Support (2019–Ongoing) Confidential Client, Multnomah County, Oregon</p> <p>TIG Environmental provides technical expert support for environmental liability assessment and cost allocation for the remediation of sediments in the Portland Harbor Superfund Site, and for the associated Natural Resource Damages claims. The harbor has been the site of numerous industrial and manufacturing operations for more than a century, including shipbuilding, petroleum storage and distribution, metal salvaging, and electrical power generation. Technical support for this project includes research, sampling, and forensic analysis to determine the specific contaminants associated with activities or facilities. The project also includes evaluating potential historical contaminant sources,</p> |



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determining contaminant fate and transport, and chemical fingerprinting polycyclic aromatic hydrocarbons (PAHs) and PCBs.

As part of the technical team, Ms. Atwater assisted with the analysis of historical documents, including environmental reports, ownership and operator details, and photographs. This information was used to evaluate sources of contamination in Portland Harbor.

Technical Consultation and Litigation Support (2019–Ongoing)

Confidential Client, New Jersey

TIG Environmental provides technical and litigation support for environmental liability assessment related to sediment remediation in the Newark Bay Study Area (NBSA) - a large Superfund bay estuary complex, part of the larger New York/New Jersey Harbor Estuary. The area hydraulically connects to the Passaic River Superfund Site and includes portions of the Hackensack River, Arthur Kill, and Kill van Kull. TIG Environmental performs investigative services including the acquisition and evaluation of historical records, conducting witness testimony, assessing environmental data, and preparing technical reports for identification and assessment of potentially responsible parties (PRPs) associated with the site. TIG Environmental develops deliverables providing detailed information regarding direct and/or indirect discharges to the NBSA from industrial, manufacturing, commercial, public works, and other potential sources. TIG Environmental personnel provided technical support on the remedial investigation and feasibility studies (RI/FS) activities on the NBSA. Such support included identifying and characterizing stormwater and combined sewer overflows that have affected sediments in the NBSA. TIG Environmental also acquired, compiled and evaluated information on publicly owned treatment works (POTWs), including their upstream collection system networks and their role as potential contaminant sources.

Ms. Atwater has helped conduct research of historical environmental documents, including technical reports, sampling plans and laboratory data reports. The completed research aided in the identification of historical operations and related sources of contamination along the Passaic River.

Technical Support of Cost Allocation (2014–Ongoing)

Confidential Client, Seattle, Washington

TIG Environmental is providing expert technical support to a private property owner participating in a Superfund site allocation. The Superfund sediment site consists of five miles of an urban and industrial estuarine waterway. Working with the property owner's attorney, TIG Environmental has evaluated potential sources of PCB contamination in sediments adjacent to the property and has developed an allocation strategy based on forensic chemistry and sediment transport modeling.

Ms. Atwater has helped analyze allocation reports and compile information regarding historical operations and analytical results for certain contaminants in the area.

Environmental Engineer for Ecology and Environment (2018–2019)

Buffalo, NY

Ms. Atwater provided engineering support, including construction oversight, soil sampling, reporting and design, for environmental remediation and contaminated soil projects involving the New York State



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Department of Conservation (NYSDEC) and New York State Parks. She assisted with technical and research support to sustainability related projects, including analyzing state energy efficiency programs. She produced technical reports, wrote project proposals, sampled and analyzed data, reviewed subcontracts, and monitored contractors. She is also a Certified UAS drone pilot and used her license to assist with data collection and analysis of physical appearance and status of projects.

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| Academic Qualifications | BS in Environmental Engineering, Clarkson University, 2018 |
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| Professional Training | <ul style="list-style-type: none">• 40-Hour OSHA Hazardous Waste Operations (HAZWOPER) Safety Training• CPR and First Aid Training• 8-hour Sediment and Erosion Control Certification• FAA UAS Unmanned Aircraft Certification• Certified Associate in Project Management (CAPM) |
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