



# PFAS Sampling, Testing, and Assessment

## Capabilities

### Fish Tissue Sampling / Processing

#### Surface and Groundwater Sampling

#### Acute and Chronic Aquatic Toxicity Testing

#### Sediment Toxicity Testing

#### Site-Specific BAF Development

#### Ecological Risk Assessment and Data Analysis



## Laboratory Coordinators

Traverse City, Michigan

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## Field Sampling Coordinator

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## PFAS EcoRisk Assessment

River Falls, Wisconsin

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GLEC has completed numerous integrated surveys of large and small water bodies involving the collection and chemical analysis of water and effluent samples, biological tissues, and sediment samples for both organic and inorganic constituents, including extensive experience with sampling surface water and fish tissue for per- and polyfluoroalkyl substances (PFAS). GLEC staff working for the Michigan Department of Environment, Great Lakes, and Energy (EGLE) have collected hundreds of groundwater, surface water, and fish tissue samples.



GLEC owns and operates NELAP-accredited aquatic toxicology laboratories at our Traverse City, Michigan and Columbus, Ohio locations. The aquatic toxicology laboratories are fully-equipped to perform static and flow-through PFAS toxicity evaluations, bioassays, and biomonitoring of complex effluents, stormwater, groundwater, whole sediment, sediment elutriate, sediment porewater and single compounds using warm and cold water fish, invertebrates and algae.

GLEC is also well-qualified to conduct laboratory and on-site PFAS field bioaccumulation/ bioconcentration studies that measure the effects of these pollutants on the survival, growth, and behavior of aquatic species. Our mobile laboratory can be used to expose fish and/or shellfish to site waters containing or spiked with PFAS. The mobile laboratory facilitates development of site-specific bioaccumulation factors (BAFs) utilizing GLEC's special expertise in the water quality and trophic level considerations affecting BAF values.



GLEC's advantage for clients that sets us apart is its ability to use its diverse and well-trained in-house field staff and company-owned equipment and resources together with its expert aquatic toxicologists, environmental chemists, and aquatic/terrestrial ecologists to support Ecological Risk Assessment studies on PFAS in the most complex environmental conditions.