



As an industry leader in managing and resolving environmental challenges, we are accomplished in streamlining the environmental review process to shorten project schedules, build consensus, and position our projects for approval.

Our interdisciplinary approach positions environmental professionals elbow-to-elbow with design engineers early in the planning/permitting process in a fully collaborative, integrated effort to avoid negative environmental impacts when feasible, minimize unavoidable environmental impacts through design solutions, and mitigate environmental impacts.

Our professionals support clients in gaining timely approvals for pipeline and site development, erosion controls, stormwater management, wetlands, and habitat-related permits and certifications.

## Natural Resources

- Wetland services
- Stream assessment and restoration
- Threatened and endangered species habitat evaluation
- Stormwater management
- Construction inspection
- Watershed and floodplain mapping
- Permitting
- Natural resource management plans

## Air Quality

- Title V and New Source permitting
- Compliance assistance and regulatory reporting
- Ambient air and meteorological monitoring
- Health risk assessments

## Cultural Resources

- Historic resources studies/mitigation
- Archaeology services
- State Historic Preservation Office liaison
- Section 106 analyses
- Section 4(f) evaluations
- Cultural resource management plans

## Hazardous Waste

- Hazardous waste screening/ due diligence
- Site investigation
- Remediation planning and implementation
- Regulatory compliance

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## Environmental Compliance

- Spill prevention, control, and countermeasure (SPCC) preparation and inspections
- U.S. Army Corps of Engineers impact permitting
- Pennsylvania preparedness, prevention, and contingency plan and master containment planning
- West Virginia well site safety, groundwater protection, and monitoring and emergency action plans
- Pre-drill baseline water quality
- State well permitting
- Local zoning permitting
- Erosion and sediment control

## Transportation and Traffic

- Highway occupancy and driveway permitting
- Road Use Maintenance Agreements (RUMA) assistance
- Road condition analysis
- Truck routing

## Water Resources

- Watershed evaluations (baseflow and average daily flow)
- Stream flow analysis and gauging
- Susquehanna River Basin Commission and state water management plans permitting
- Ohio water withdrawal registrations
- Safe yield determinations
- Surface water withdrawal design and permitting
- Water distribution system design
- Water quality sampling

## Geotechnical Engineering

- Slope stability
- Pad and impoundment foundation analysis
- Depth to bedrock assessments
- Topsoil evaluations

## Geographic Information Systems (GIS)

- Spatial analysis in support of environmental impact areas
- GIS modeling for endangered habitats, wetlands, and cultural resources sensitivities
- 3-D and slope analysis studies
- View shed analysis studies
- Graphics generation in support of environmental studies

## Remote Sensing

- LiDAR characterization and mapping
- Corridor and environmental monitoring
- Fracture trace analysis
- Floodplain mapping

