

# Environmental Studies and Permitting

GAI Consultants guides clients through the complexity of federal, state, and local agency environmental and permitting regulations. Our established agency relationships and precise study processes advance small projects as well as large regional efforts. Whether new gas and electric corridors, infrastructure rehab, or brownfield redevelopment, GAI conducts detailed environmental studies in the initial project planning stages to keep permitting, planning, and construction on schedule.

**Advanced GIS capabilities and in-house cultural resources services means GAI has the skills and range of disciplines to deliver complete project solutions.**

We anticipate environmental and developmental issues that can put a project on hold and conduct comprehensive assessments that address impacts to wetlands and floodplains, terrestrial and aquatic natural systems, vegetation and wildlife, cultural

resources and socioeconomics, air and water quality, noise levels, aesthetics, and geologic and hazardous conditions. Our professionals identify issues to avoid and minimize impacts where possible, prepare permit applications, and develop mitigation plans for unavoidable impacts. We develop cost-effective solutions to meet regulatory requirements while keeping projects on schedule.

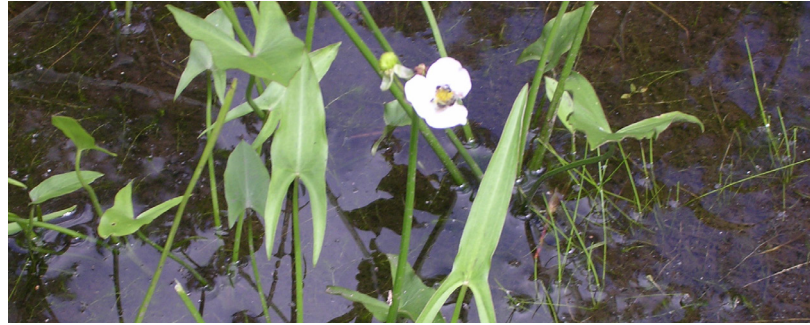
GAI's environmental services encompass siting and master planning, as well as permitting. Our environmental specialists evaluate alternative sites, handle site inspections and features inventories, and rank sites by their potential for successful development—for energy facilities, industrial plants, commercial and retail centers, trails, transmission line corridors, and more. GAI's master plans identify infrastructure, layout, and access needs. Clients benefit from extensive scheduling, cost estimating, and regulatory agency approval experience.

With sophisticated Geographical Information System (GIS) capabilities, the database systems GAI creates streamline the National Environmental



gai consultants®

## Service Profile



Policy Act (NEPA) process through large-volume data sharing that optimizes the regulatory review process. We work extensively with regulatory agencies to obtain permits and clearances for all types of facilities.

GAI's in-house cultural resource services complete the full-service package we bring to environmental assessment, study, planning, or engineering efforts.

From a few hours of consultation to total design and environmental impact assessment responsibility, our dedicated specialists are skilled in a broad range of disciplines. Whatever the required level of involvement, GAI delivers full-service project services with continued success.

### Environmental Studies and Permitting Services

- Gas and electric transmission siting and permitting
- NEPA compliance and FERC certification
- Environmental Impact Statements and Assessments
- Permitting and environmental reporting
- NPDES and 404/401 permitting
- Groundwater and surface water modeling
- Navigability and floodplain studies
- Water quality permitting and air quality monitoring
- Noise studies and mitigation
- GIS database management
- State power siting board certification
- Threatened and endangered species surveys
- Invasive species surveys and management
- Route evaluation studies
- Siting and alignment evaluation and selection
- Land use assessments for site development
- Subdivision and zoning site approvals
- Model ordinances for land-use control
- Market analyses for highway/roadside plazas
- Recreational site demographic and use analyses
- Community and land-use planning
- Fiscal impact analysis
- Public outreach coordination
- Cultural resources investigations

### GAI Services Summary

- Airport Planning and Design
- Bridge and Structure Inspection and Design
- Coal Combustion Residuals Management
- Construction Inspection and Management
- Cultural Resources Management
- Economic Analyses and Strategies
- Electric Transmission Design and Siting
- Environmental Engineering
- Environmental Studies, Species Studies, Permitting
- Gas Pipeline Surveying and Mapping
- Geographic Information Systems (GIS)
- Geotechnical Engineering and Geology
- Impoundment and Landfill Permitting and Design
- Land Development Engineering
- Landscape Architecture and Design
- Master Planning and Urban Design
- Mechanical, Electrical, Structural Engineering
- Natural Gas FERC Certification and Permitting
- Nuclear Energy Engineering Support
- Right of Way and Appraisal Support
- Land Surveying and Mapping
- Transportation Planning and Design
- Utility Management Consulting
- Water, Stormwater, Wastewater Management

The scope of professional services that are provided by or offered out of each GAI office including, but not limited to, engineering and surveying services, is governed by the professional and business licensing requirements of each individual State or jurisdiction in which the GAI office is located and whether GAI has the requisite professional and business licenses for that State or jurisdiction. Nothing on GAI's Web Site or marketing materials is intended to be interpreted or construed as offering to perform professional licensed services where prohibited unless the licensing requirements have been met. Engineering services are not offered out of GAI's Northern Kentucky (Florence) office location. Surveying services are not offered out of GAI's Illinois location or by our New York subsidiary.

