

# Natural Gas Environmental Engineering

Energy companies value the support of a firm with an accomplished understanding of regulatory agency standards and scheduling requirements. GAI Consultants is dedicated to helping natural gas clients establish pipeline corridors, well sites, compressor station sites, and access roads for natural gas gathering, storage, and transmission.

Accurate cost estimates and established relationships with regulatory agencies means clients can stay competitive in an industry that continues to advance in technology and grow in demand.

GAI's environmental engineers and specialists are accomplished in their understanding of agency standards and scheduling requirements, and have established relationships with regulatory agencies that are built on trust and reliability. We are dedicated to helping clients establish pipeline corridors, well sites, compressor station sites, and

access roads for natural gas gathering, storage, and transmission. Our services cover the entire process, from environmental studies and permitting to survey and engineering design for siting, roadways, and horizontal directional drilling.

Tapping into gas resources requires site selection, planning, and survey skills, and the support of cultural resources, foundation engineering, and water/wastewater professionals. GAI has that wealth of in-house resources conveniently located throughout the northeast shale gas corridors of Ohio, Pennsylvania, Virginia, and West Virginia.

GAI has established relationships with regulatory agencies including the Federal Energy Regulatory Commission (FERC). Our pipeline survey group is unique in their experience, mobility, and dedication to the specialized needs of natural gas clients. Working closely with mapping specialists, our surveyors cover the full range of topographic, boundary, control, construction, hydrographic, design, and specialty survey disciplines.



gai consultants®

Service Profile



GAI determines the most direct and least intrusive route for each natural gas pipeline corridor by identifying streams, wetlands, and natural habitats and conducting background research for previously identified obstacles to reduce the time and effort required for field investigations. Equipped with this information, natural gas clients can avoid or reduce potential adverse environmental impacts.

Water supplies and water quality are a concern to landowners. GAI identifies private water supplies, conducts water withdrawal analyses, and prepares water management plans for properties affected by natural gas well sites. Our biologists and environmental

scientists locate streams and wetlands that support local flora and our environmental engineers design mitigation measures to preserve natural water flows.

GAI’s stormwater drainage and erosion control plans for natural gas facility construction sites mitigate potential adverse effects to the local environment. The Notice of Intent applications that GAI files for clients move construction projects forward without delay.

GAI is a valuable resource for energy clients in the natural gas industry because our strategies determine the best alternatives, resolve environmental conflicts, and encourage public consensus.

Natural Gas Environmental Engineering Services

- Agency Coordination and FERC Compliance
Surveying and Pipeline Surveys
Right-of-Way Acquisition
E&S Control Plans
Pipeline Corridor Routing Studies
Compressor Station and Gas Well Siting
GIS Data Management
Construction Inspection/Management
Preparedness, Prevention, and Contingency Plans
Water Withdrawal and Water Quality Analysis
Water Management Plans
Post-Construction Stormwater Management Plans
Noise Surveys

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.

