



## Geoscience Services

Our geoscience professionals thoroughly understand the advantage of developing and protecting our community groundwater resources. From new source development to environmental site assessment, ARRO offers a unique integration of knowledge and experience to provide innovative solutions that address a myriad of site conditions.

We understand that our reputation rests on committing to our clients, anticipating their needs and staying ahead of their expectations

### GEOSCIENCE SERVICES

- Phase I & II environmental assessments
- Wetlands walkovers and delineations
- Sinkhole investigations
- Karst/hazardous geology investigations
- Wellhead protection
- Well siting and development
- Hydrogeological investigations
- Fracture trace analysis

### GEOLOGIC HAZARD INVESTIGATIONS

- Sinkhole and karst topography assessments
- Foundation stabilization
- Fault hazard investigations
- Seismic hazard/risk assessments
- Slope stability investigations

### ARRO ADVANTAGE

- Professional, responsive service and reliable project management
- Expert staff of geologists and hydrogeologists
- In-depth experience with both private and municipal needs
- Innovative technical approaches

#### Corporate Headquarters

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## GROUNDWATER RESOURCE DEVELOPMENT

- Well siting services
- Aquifer testing
- Water budgets, including water resources availability study for specific site or region
- Groundwater recharge capture zone analysis
- Wellhead protection studies
- Evaluation of surface water and groundwater supply potential and quality estimates
- Water withdrawal and well field management relating to conservation and beneficial use of water
- Permitting, including safe drinking water, water quality, water allocation and wellhead protection plan for private wells and public water supplies
- Groundwater modeling
- Hydrogeologic studies
- Geographical Information System (GIS) data compilation and management

## ENVIRONMENTAL SITE ASSESSMENTS

- Site characterization
- Groundwater monitoring services
- Soil and geologic investigations for residential and municipal wastewater disposal facilities

**OUT IN FRONT** 

## ABOUT ARRO

ARRO is a full service engineering and environmental consulting firm employing more than 130 professionals in offices located throughout the mid-Atlantic region. Our success, shared with the clients and communities we serve, can be summed up in one message: ***we stay out in front.***