

Capabilities and Resources

Groundwater Resources

Hydrogeologic studies for groundwater supply development

Water well design and preparation of technical specifications

Well drilling oversight and construction management

Bid support and driller selection

Well siting studies

- Fracture trace analyses

- Prioritization matrix development

Geophysical survey investigations

Water resources permitting

Aquifer testing and analysis

Water quality testing and analysis

Well assessment and rehabilitation

- Spinner log flow profile

- Dye tracer flow profile

- Depth-specific sampling

- Video survey inspection

Managed aquifer recharge projects

- Design and construction management of ASR wells; vadose zone wells; infiltration basins; infiltration trenches

- Recharge facility siting studies

- Efficiency assessment and optimization

- Storage volume assessments

- Mounding analyses

- Aquifer retention and transport studies

- Geochemical analysis of mixed water interactions

- Project monitoring and reporting



Environmental Investigations

RI/FS and RCRA studies

Due Diligence Investigations

PRP investigations

Soil/groundwater remedy design, implementation, and optimization

Soil-gas monitoring

RCRA investigations/closure

Permitting (APP, NPDES, NEPA, Air)

Compliance and closure monitoring

Indoor air investigations

Phase I, II, and III ESAs

Third-party oversight



continued



Power Plant and Industrial Facility Support

Planning, permitting and regulatory compliance
Process and dust control water resource evaluations
Hydrogeologic assessments and facility siting prioritization
Geochemical analysis for scale control or aquifer recharge
Geothermal studies

Mining Support

Feasibility studies (environmental and water supply)
Regulatory support and environmental permitting
Mine/plant water management and discharge analyses
CO₂ storage studies
Brine disposal
Injection well design and testing
Underground and open pit water inflow analyses
Geochemical characterization

Groundwater Modeling

Impact studies for well field optimization
Groundwater/surface water interactions
Site characterization studies
Well siting and wellfield management
Wellhead protection and wellhead optimization modeling
Water supply projections for land development or facility planning
Dewatering studies
Mounding analysis/unreasonable harm studies at groundwater recharge facilities
Permitting and regulatory support for industrial facilities and mine sites
Integrated modeling of groundwater–surface water interactions
Flow and transport modeling at environmentally impacted sites
Litigation support
Remediation system design

Expert Witness Services and Litigation Support

Experience with expert witness testimony includes:

- United States District Court (AZ and CA)
- Arizona Corporation Commission Hearings and Rate Cases (AZ)
- State Superior Court (AZ)
- Gila River Adjudication Hearings (AZ)
- Arbitration Hearings (AZ)

Litigation support and expert testimony on disputes related to:

- Environmental issues and contaminant plume migration
- Surface water/groundwater interaction
- Water rights issues
- Water well structure and integrity issues.

