

WATER WORKS



Haley and Ward, Inc. provides complete water works engineering services to water suppliers:

WATER SOURCES

- Test Well Exploration
- Production Well Development Evaluation/Rehabilitation
- Aquifer and Surface Source Watershed Protection Zone II and III Analyses
- Sanitary Surveys
- Groundwater Modeling
- Nitrogen Loading Analysis
- Groundwater Monitoring Program
- Contamination Investigation
- Site Design
- Pump Station Evaluation/Design/Renovation
- Instrumentation and Controls
- SCADA Design/Integration
- Facility Rehabilitation, Upgrades
- Pumping Unit Performance Tests
- Approvable Yield Analysis
- Facility Operation and Maintenance
- Water Management Act Permitting

WATERMAINS

- Pipe Condition Tests
- Hydrant Flow Tests
- System Hydraulic Modeling
- Water Quality Evaluation
- Rehabilitation & Replacement Alternatives Analysis
- Watermain Design
- Cleaning and Cement-Lining Design
- Phased Construction Programs
- Contract Documents
- Construction Services
- Leak Repair Programs
- Unidirectional Flushing Program Design and Mapping
- GIS, AutoCAD Mapping
- Maintenance Programs
- Cost Estimates

PLANNING & STUDIES

- Master Planning
- Facilities Inspection and Testing
- Regulatory Planning
- Water Quality Investigations
- Utility Mapping Systems
- GIS Mapping
- Environmental Assessments
- Cost/Benefit Analysis
- Rate Studies
- Water Audits
- Vulnerability Assessment & Emergency Response Plans
- Feasibility Studies
- Water Demand Projections
- Phased Construction Programs

TREATMENT

- Treatment Pilot Studies
- Water Quality Evaluation
- Treatment Alternatives/Adequacy/Efficiency Evaluations
- Planning for Future Regulations/Quality
- Regulatory/Environmental Permits
- Grant Applications
- Facility Design/Rehabilitation/Upgrade
- Contract Documents
- Construction and Start-Up

STORAGE FACILITIES

- Evaluation of Storage Volume Adequacy
- Safety & Security Checks
- Coating System Inspections & Evaluation
- Design, Repair, Rehabilitation, Retrofit
- Mixing System Design
- Siting of Storage Facilities

OPERATIONAL SERVICES

- O&M Manual Preparation
- Troubleshooting Assistance
- Licensed Contract Operations
- Utility Cloud Asset Management

WATERWORKS ADMINISTRATION/ MAINTENANCE

- Management, Organization Evaluations
- Energy Conservation Programs
- Cost Estimates
- Permitting
- Funding Applications
- Water Quality Review
- GIS Mapping and Database Building
- Rules & Regulations Development
- Maintenance & Record Keeping Programs
- Community Relations
- Regulatory Permits
- Grant Applications
- Cross-connection Control, Water Conservation, Wellhead Protection Bylaws
- Water Department Rules, Regulations and Standards

CONSTRUCTION SERVICES

- Construction Administration
- Cost Estimates
- Bidding Assistance
- Contract Award Recommendations
- Shop Drawing Review
- Work Schedule Review
- Payment Estimates
- Resident Project Representation
- Performance Tests
- Work Acceptance Recommendations
- Grant Administration
- Record Drawing Preparation

PROJECT PEER REVIEW

- Development Peer Review
- Permit Compliance Oversight
- Cellular Equipment on Water Storage Facilities