



System Planning: Master Planning, Modeling & Capital Improvement Plans

Maintaining a municipality's infrastructure requires both sound engineering and the coordination of many influences. Haley Ward brings extensive experience in municipal budgeting, funding applications and administrative services as part of a client's long term master planning and capital improvements. We also specialize in grant administration and have successfully worked with federal and state programs.

Master Planning

- Use of Best Technology Matched to Site Constraints
- Review of Water & Wastewater Treatment Adequacy, Needs & Inventory
- Operational Improvements & Improvements to Service Delivery Efficiencies
- Conceptual Design & Feasibility Studies
- System Planning & Design
- Construction/Construction Management
- CDBG Assistance & Admin

- Utility Mapping Systems/ GIS Mapping
- Review of Existing Water & Wastewater Mgmt Plans for Regulatory Compliance

Capital Improvement Plans

- Grant Administration/SRF Program, EDA, USDA/RD, CDS
- Cost/Benefit Analysis/Rate Studies
- Cost Estimates/Bidding Assistance
- Development Peer Review
- Phased Construction Programs

RELATIONSHIPS WITH FEDERAL AND STATE PROGRAMS:

- USDA/RD
- SRF
- EDA
- CDBG
- Congressional Directed Spending

MODELING:

- Pipe Flow Models for Optimum Pump & Pipe Sizing
- Water Quality Models Designed to Evaluate efficiencies & Alternative Technologies
- Mass Balance Analysis of Nutrient Loading
- Streamflow Analysis
- Hydraulic Analysis of Flow Gradients thru Treatment Plant
- Collection System Modeling & Flow Projections for Master Planning

