MANAGEMENT, OPERATION & CHALLENGES

Wastewater Utilities Perspective



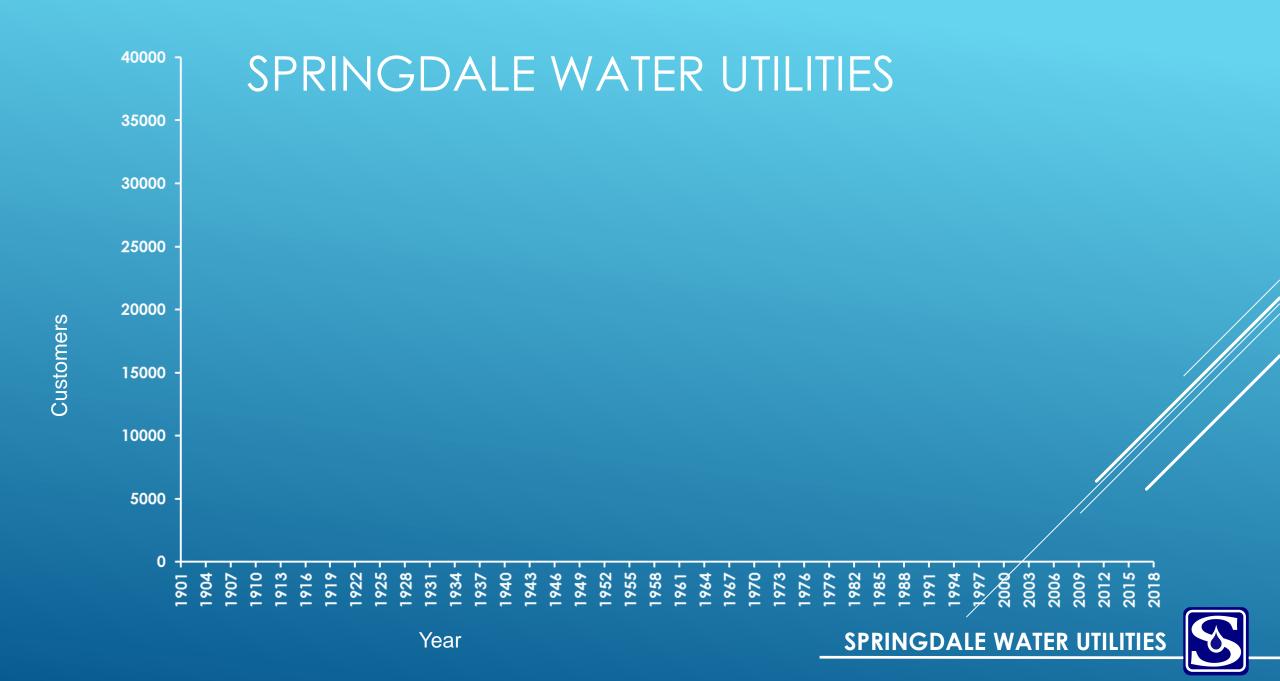
TOPICS OF DISCUSSION

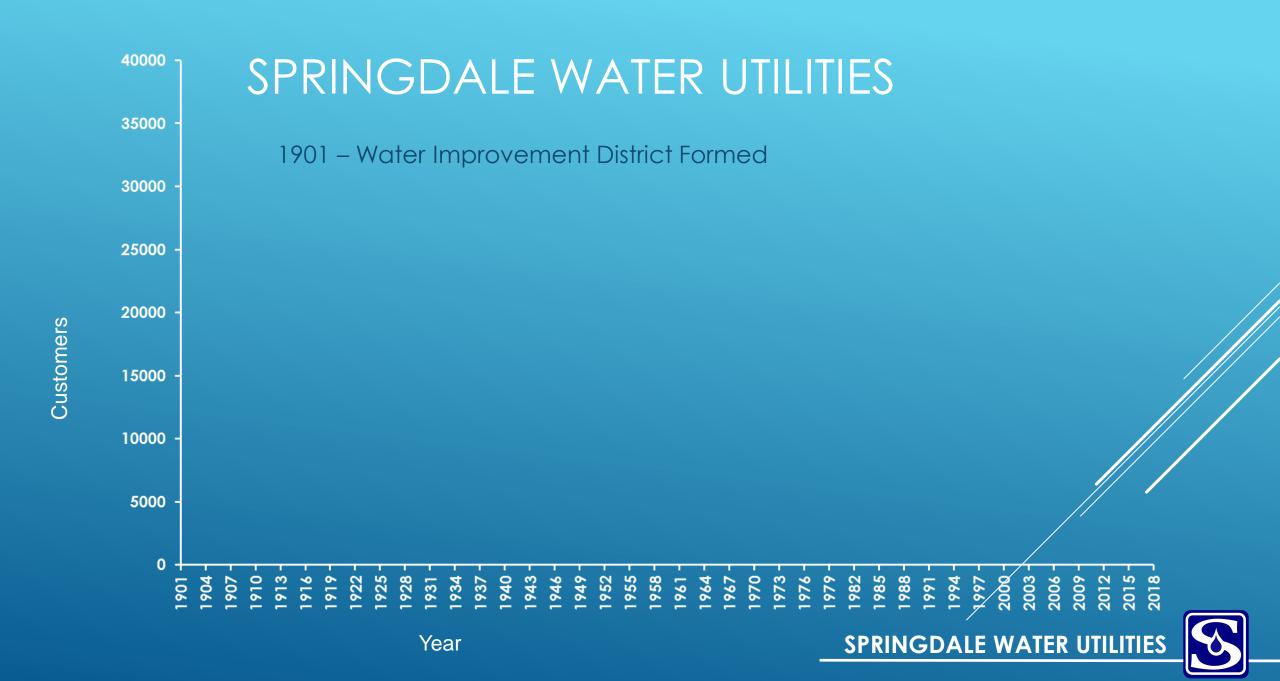
- Brief History of Springdale Water Utilities
- Accomplishments of the Utility
- Springdale Wastewater Treatment Facility
- Attributes of Effective Management
- Challenges of Utilities
- Strategies for the Future
- > Questions

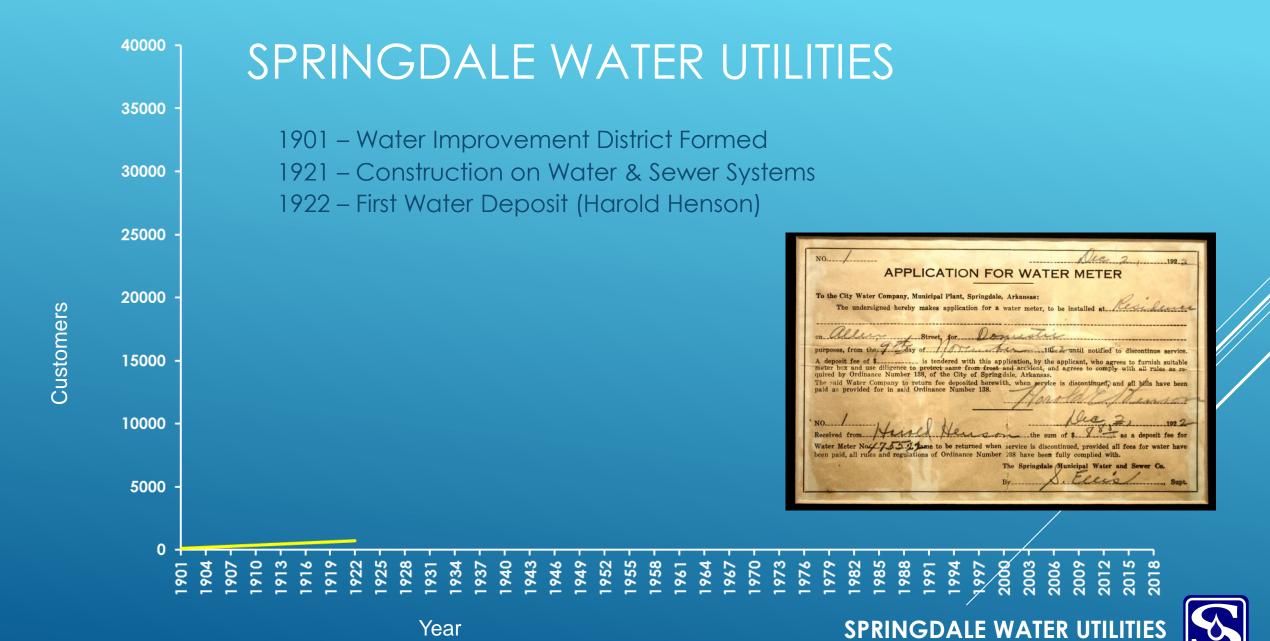


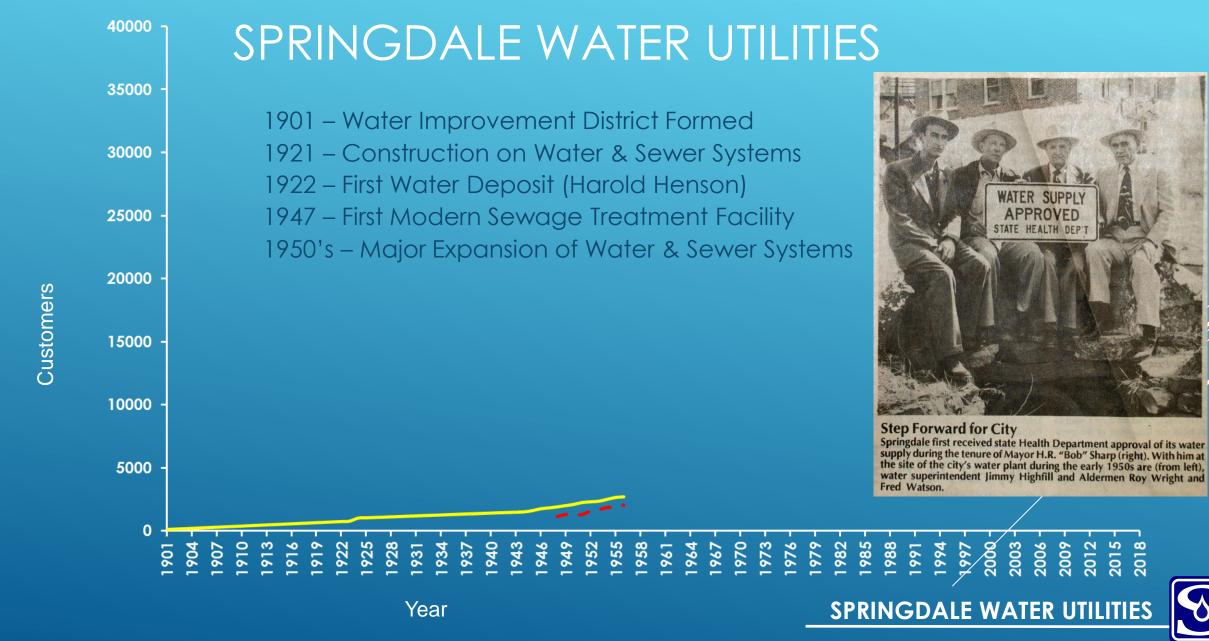
SPRINGDALE WATER UTILITIES

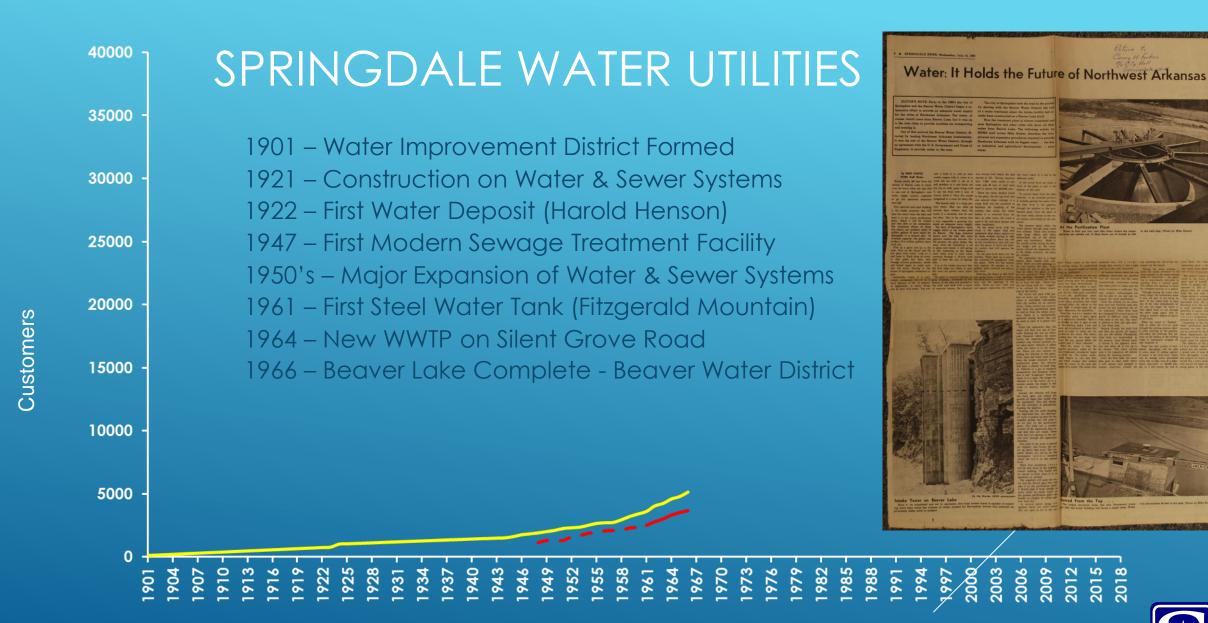




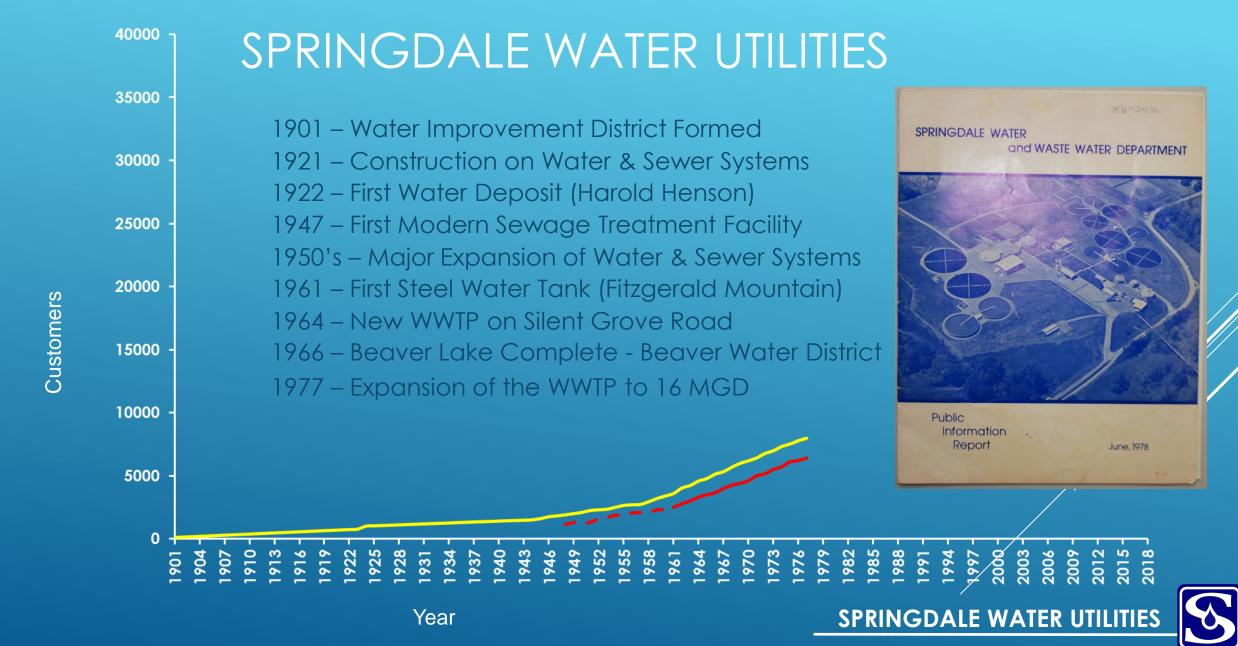


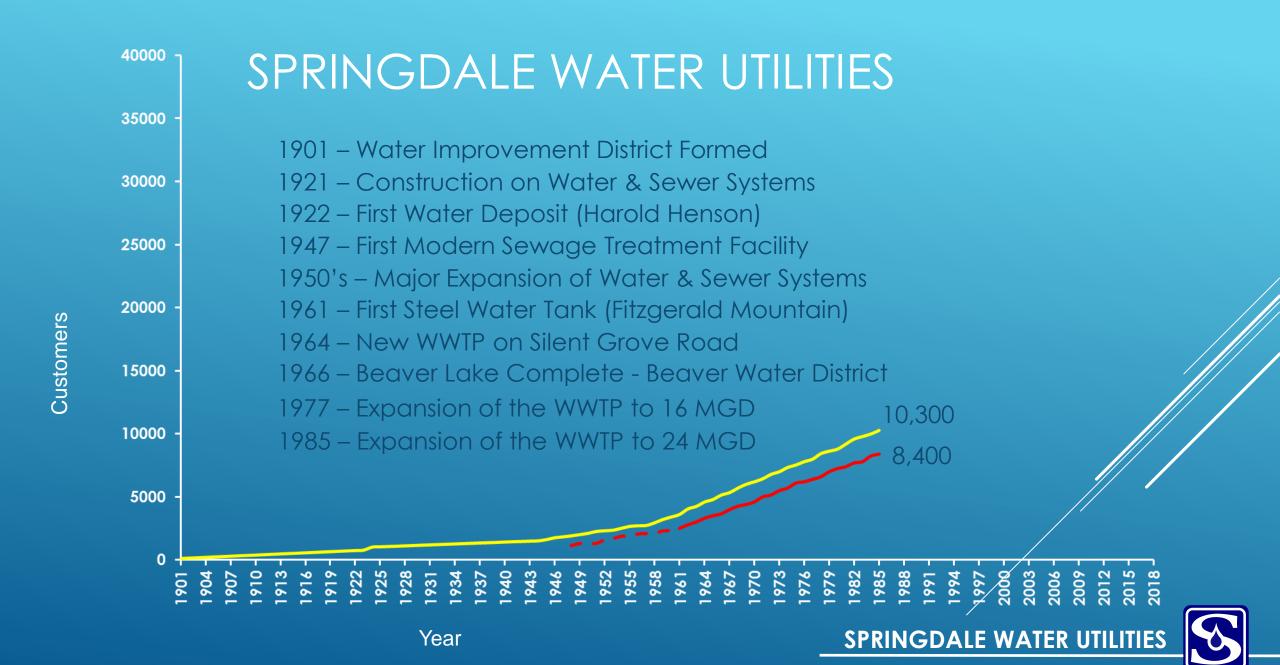


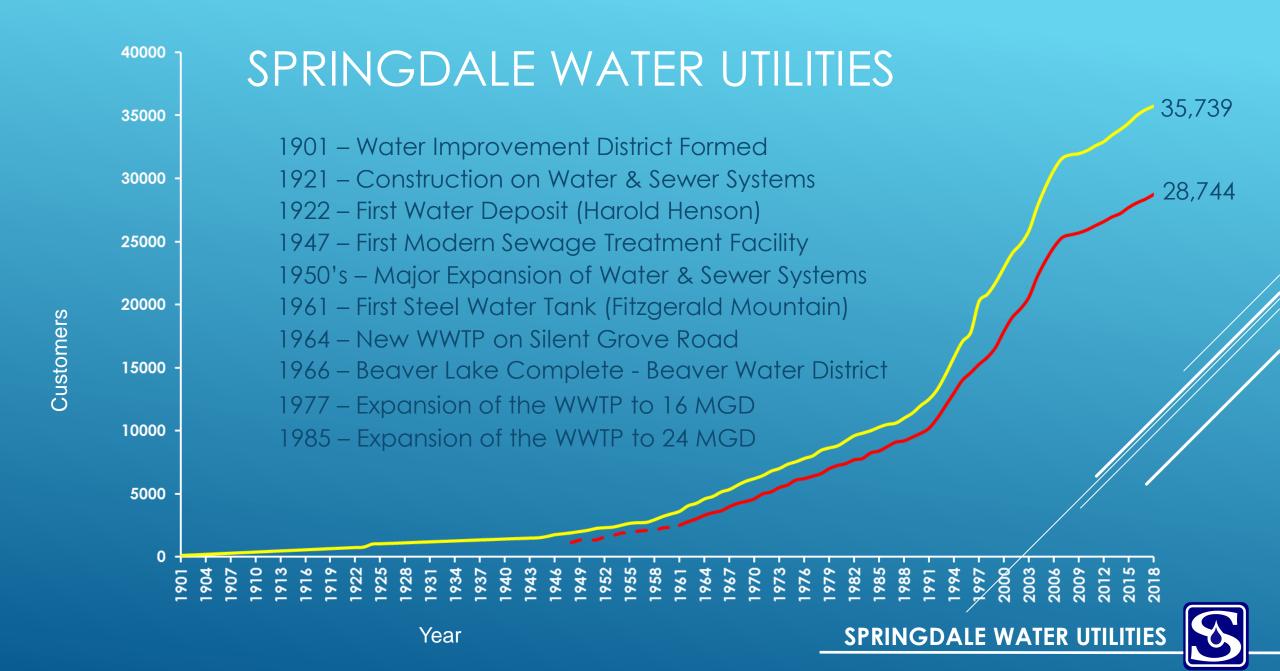










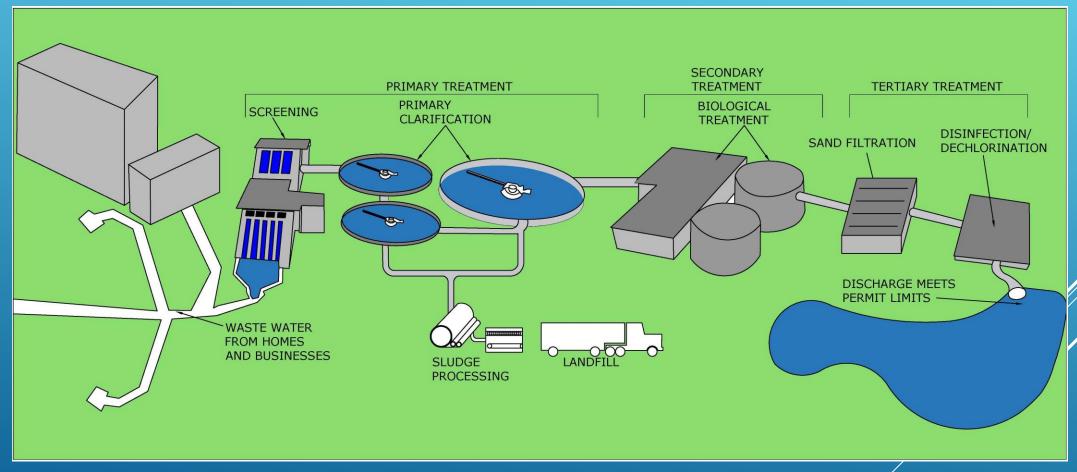


AWARDS & ORGANIZATIONAL INVOLVEMENT

- ACEC 1st Place Award for Energy and Power Honor Award for Master Plan
- ► AWWMA Manager of the Year Multiple Times
- AWEA Safety Award Pretreatment Award Wastewater
 Manager of the Year
- NWD AWW&WEA Wastewater Operator Water Manager of the Year – Pretreatment Professional of the Year
- > Arkansas Governs Quality Award Commitment
- ▶ GFOA Certificate of Achievement for Excellence



WASTEWATER TREATMENT PROCESS



SPRINGDALE WASTEWATER TREATMENT FACILITY



- 24 MGD Advanced Biological Treatment
- > 8.76 Billion Gallons Treated
- 31,590 Tons of Sludge Disposed Cost - \$700,000
- Sewer Sales \$13.3 Million
 Operating Cost \$6.1 Million
 Depreciation \$2.2 Million
 Capital Asset \$70.7 Million
- ► Electrical Cost \$ 927/,300
- 25 Full-Time Employees

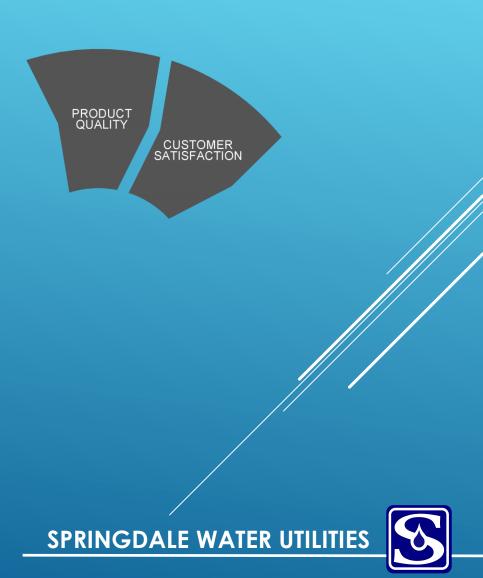




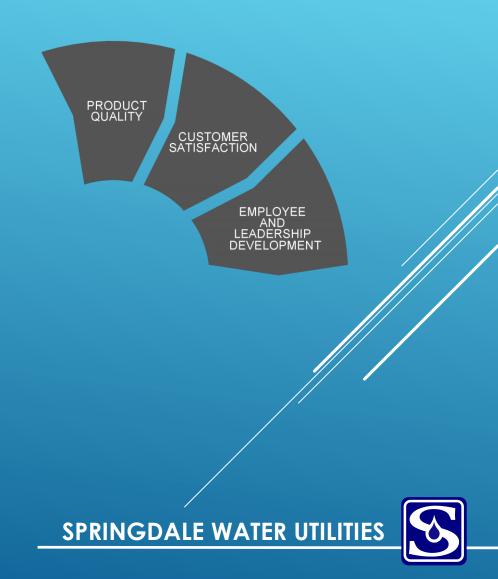
Product Quality



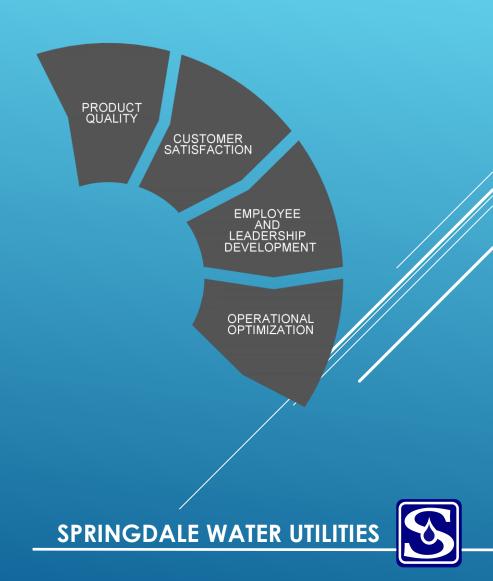
- Product Quality
- Customer Satisfaction



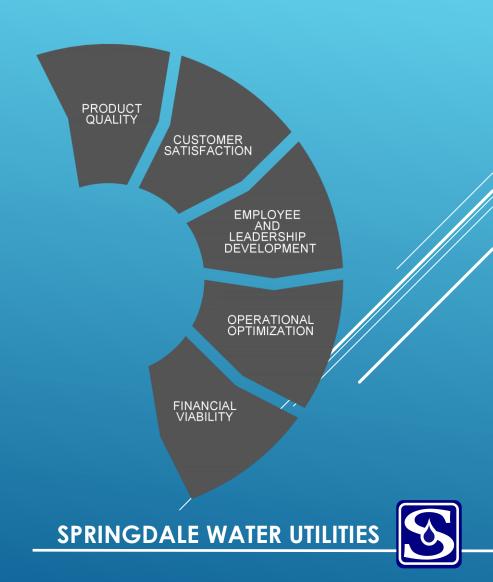
- Product Quality
- Customer Satisfaction
- Employee & Leadership Development



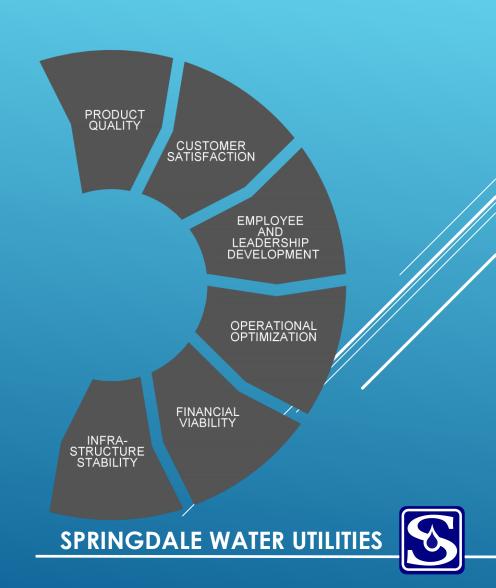
- Product Quality
- Customer Satisfaction
- Employee & Leadership Development
- Operation Optimization



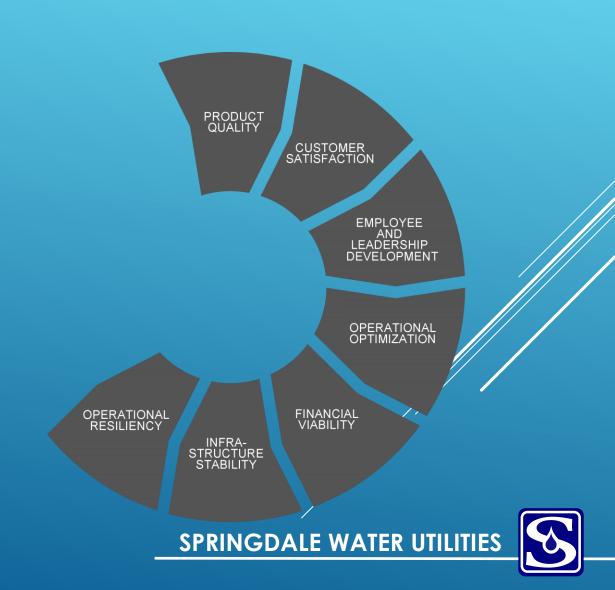
- Product Quality
- Customer Satisfaction
- Employee & Leadership Development
- Operation Optimization
- ▶ Financial Viability



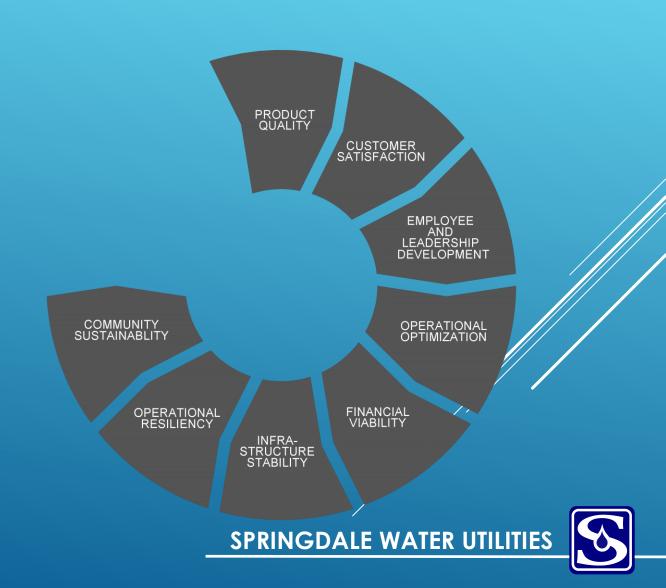
- Product Quality
- Customer Satisfaction
- Employee & Leadership Development
- Operation Optimization
- ▶ Financial Viability
- Infrastructure Stability



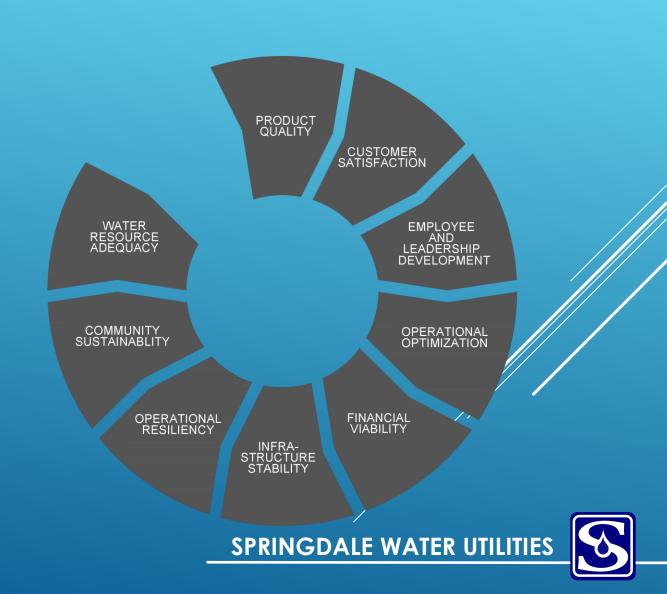
- Product Quality
- Customer Satisfaction
- Employee & Leadership Development
- Operation Optimization
- ▶ Financial Viability
- Infrastructure Stability
- Operational Resiliency



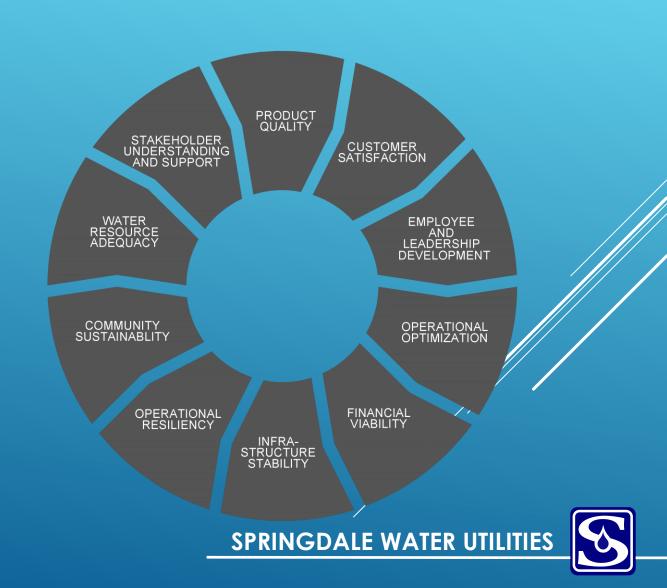
- Product Quality
- Customer Satisfaction
- Employee & Leadership Development
- Operation Optimization
- ▶ Financial Viability
- Infrastructure Stability
- Operational Resiliency
- Community Sustainability



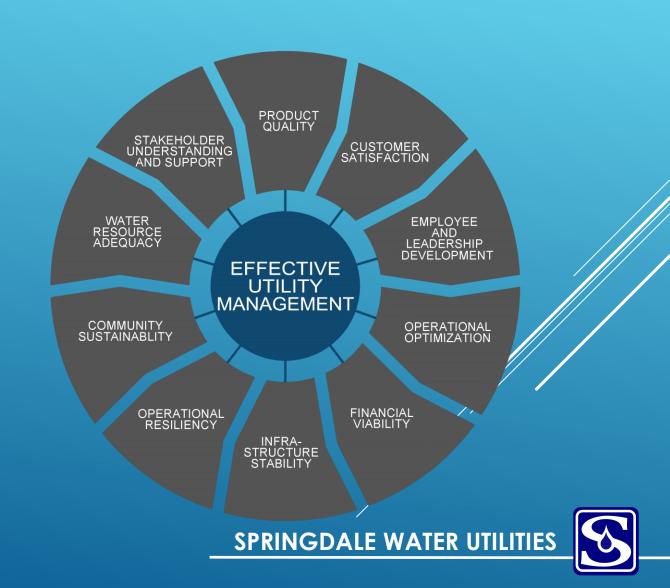
- Product Quality
- Customer Satisfaction
- Employee & Leadership Development
- Operation Optimization
- ▶ Financial Viability
- Infrastructure Stability
- Operational Resiliency
- Community Sustainability
- Water Resource Adequacy



- Product Quality
- Customer Satisfaction
- Employee & Leadership Development
- Operation Optimization
- ▶ Financial Viability
- Infrastructure Stability
- Operational Resiliency
- Community Sustainability
- Water Resource Adequacy
- Stakeholder Understanding & Support



- Product Quality
- Customer Satisfaction
- Employee & Leadership Development
- Operation Optimization
- ▶ Financial Viability
- Infrastructure Stability
- Operational Resiliency
- Community Sustainability
- Water Resource Adequacy
- Stakeholder Understanding & Support



CHALLENGES FOR WASTEWATER SYSTEMS AND OPERATORS

- Condition of Infrastructure Collection & Treatment
- Public Appreciation
- Funding for Capital Improvements & Depreciation
- Workforce Obtaining & Retaining Qualified Staff
- Customer & Community Relations
- Governmental Regulations
- Energy Costs



CHALLENGES FOR WASTEWATER SYSTEMS AND OPERATORS

- Farm Runoff and Increased Urbanization
- Pollutants are becoming more complex with more stringent requirements. Specialized equipment and training are needed.
- Monitoring and reporting requirements
- ▶ Growth
- ➤ Sludge Disposal



OVERALL MANAGEMENT STRATEGIES

- Assessment of Current Condition
- Education Employees, Public & Elected Officials
- ▶ Value of Product
- Efficiency
- ▶ Funding of Future Improvements
- Empower and Educate Staff
- ➤ Control on Inflow & Infiltration
- Master Planning Growth & Capacity



