

Wastewater Plan Update

UAC - April 4, 2019



East Bay Marina Lift Station

Wastewater Plan Update

Tonight's Agenda

- Planning Requirements
- Key Challenges
- Goals, Objectives and Strategies
- Capital Projects
- Next Steps



Briggs Village Lift Station

Wastewater Plan Update

Plan Checklist (WAC 173-240-050)

- Background Information
 - Purpose – ownership – service area
- Map(s)
 - Existing and proposed trunk lines – existing and proposed pump stations and force mains – topography – water bodies – drinking water systems
- Population and Growth Trends
- Industrial Wastewater Facilities
- Inflow & Infiltration Problems and Solutions
- Provisions for and Adequacy of Treatment - LOTT



Black Lake Lift Station

Wastewater Plan Update

Plan Checklist Continued

- Establishments Producing Industrial Wastewater
 - Quantity – character - expansion
- Alternatives Evaluated
- Cost of Providing Service
 - Debt service – Operations and Maintenance
- SEPA Review

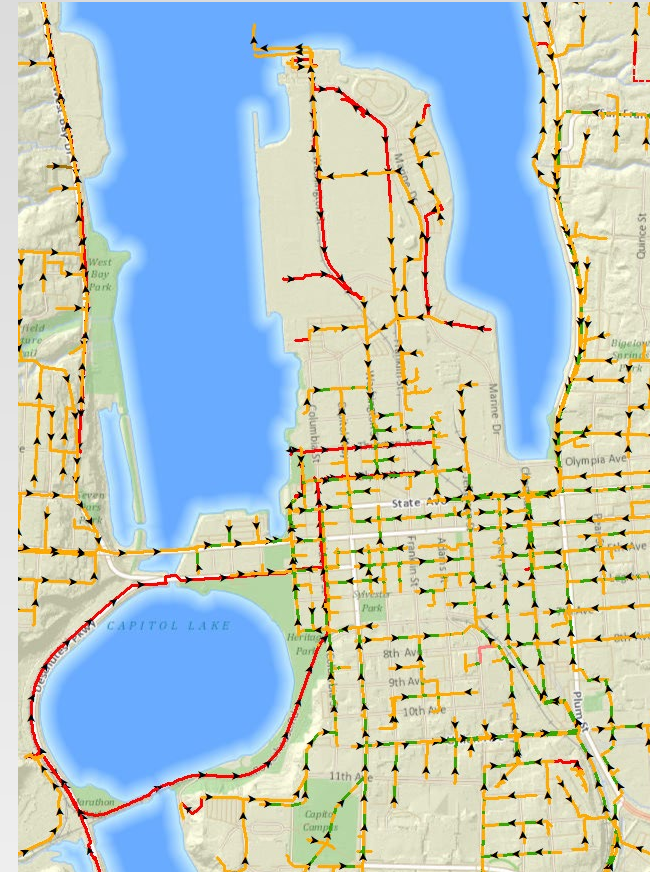


Ensign Lift Station

Wastewater Plan Update

Wastewater System

- 17.5 Square Miles Within Service Area
- 187 Miles of Gravity Sewer Pipe
 - 4,000 Manholes
 - 1,100 Cleanouts
- 31 Lift Stations
 - 9.5 Miles Pressurized Pipe
- 1,860 STEP (Septic Tank Effluent Pumping) Systems
 - 27.5 Miles STEP Pipes
- 280+ Privately-owned Grinder Pumps
 - 1+ Miles Grinder Pressure Pipe



Key Challenges

- **Aging Infrastructure**
 - Risk to public health and water quality
 - Understanding condition is key
- **STEP Systems**
 - Maintenance
 - Odor control
 - Corrosion control
- **Onsite Sewage Systems**
 - Progress is occurring
- **Inflow and Infiltration**
 - Groundwater and surface water consumes pipe and treatment plant capacity



Key Challenges

Extending Sewers to New Development

- Development requires planning for sewers

Climate Change

- Five pump stations could be impacted by rising seas
- Utility operations could help mitigate climate change

Fats, Oils and Grease (FOG)

- Causes sewer system blockages
- Requires significant staff time to address

Equitable and Predictable Rates and Fees

- Predictable rates and fees are important for customers



Photo credit: water.arlingtonva.us



Goals, Objectives and Strategies

KEY PLANNING TERMS	
Goals	Broad, qualitative statements of what the Wastewater Utility hopes to achieve.
Objectives	Specific, measureable statements of what will be done to achieve the Goals within a particular time frame.
Strategies	<p>General approaches or methods for achieving Objectives and resolving specific issues.</p> <p>Strategies speak to the question “How will we go about accomplishing our Objectives”?</p>

Wastewater Plan Goals

2013

Energy Goal



2019

New Climate
Change Goal

Water Use Goal



- Integrated Water
Resources Goal
- New Climate
Change Goal

Wastewater Plan Goals

- Water Quality
- Public Health
- Climate Change
- Utility Rates and Fees
- Integrated Water Resources
- Information

Capital Projects



Next Steps

- Financial Analysis and System Modeling: Late April
- Draft Plan Completed: Mid-May
- UAC Review:
 - Mid-May – June 6
 - June Meeting Q&A and Letter of Recommendation
- Public Comment Period: Mid-June
- SEPA and Commerce Department Review: July - August
- Ecology Review and Approval: July - Sept
- Council Review and Approval: Oct - Nov

Questions and Discussion

