



# Utility Plans Briefing



## Utility Advisory Committee February 1, 2018





# Tonight's Agenda

- 1) **Water System Plan**
- 2) **Wastewater Management Plan**
- 3) **Storm and Surface Water Plan**

**Missions**

**Key Challenges**

**Capital Improvement Plans**

**Goals, Objectives and Strategies**

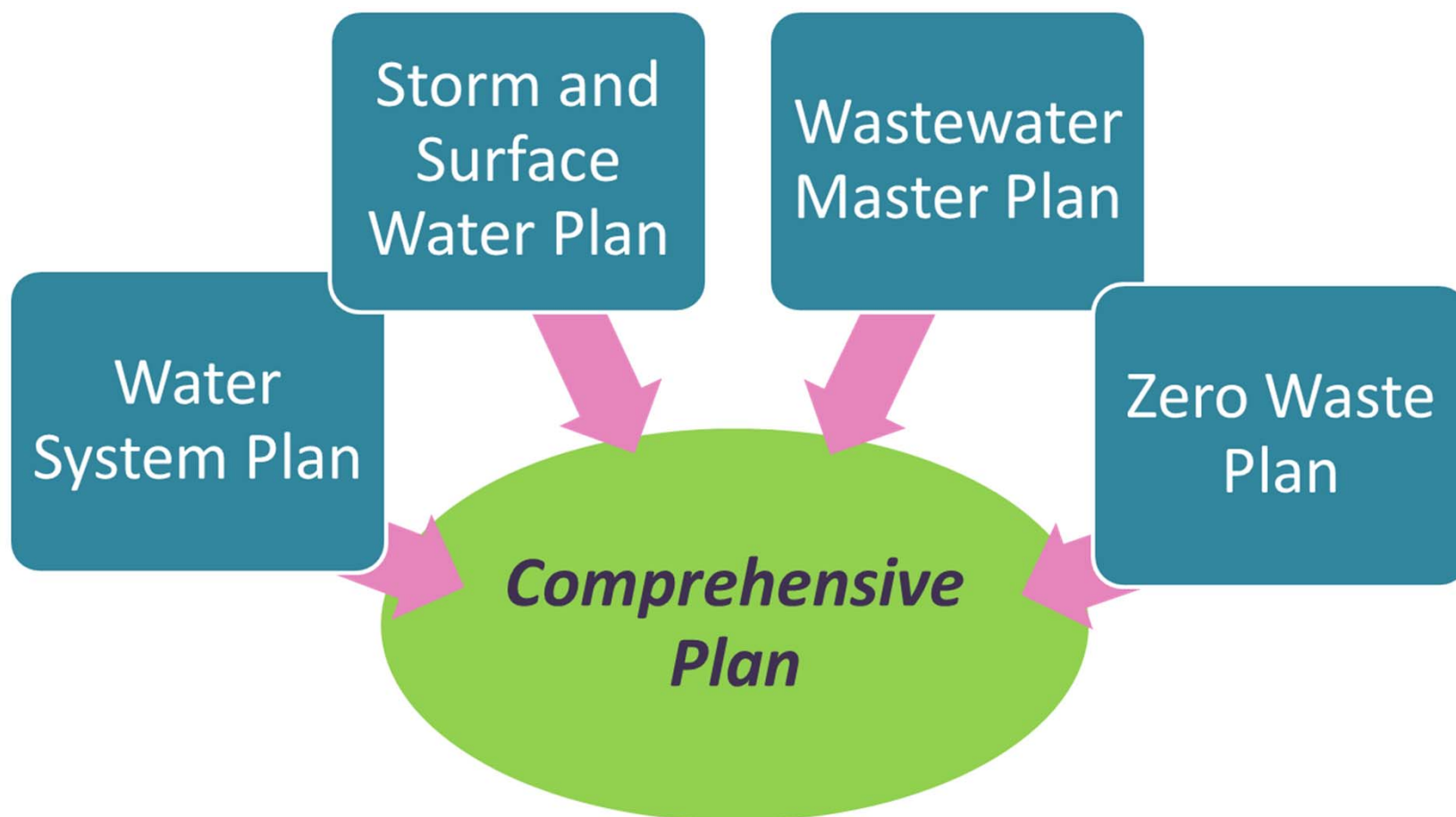
- 4) **Waste ReSources Management Plan – Ron Jones**
- 5) **Questions**







# Planning Framework





# Water System Plan

## Mission

- *to provide and protect healthy drinking water for the community.*





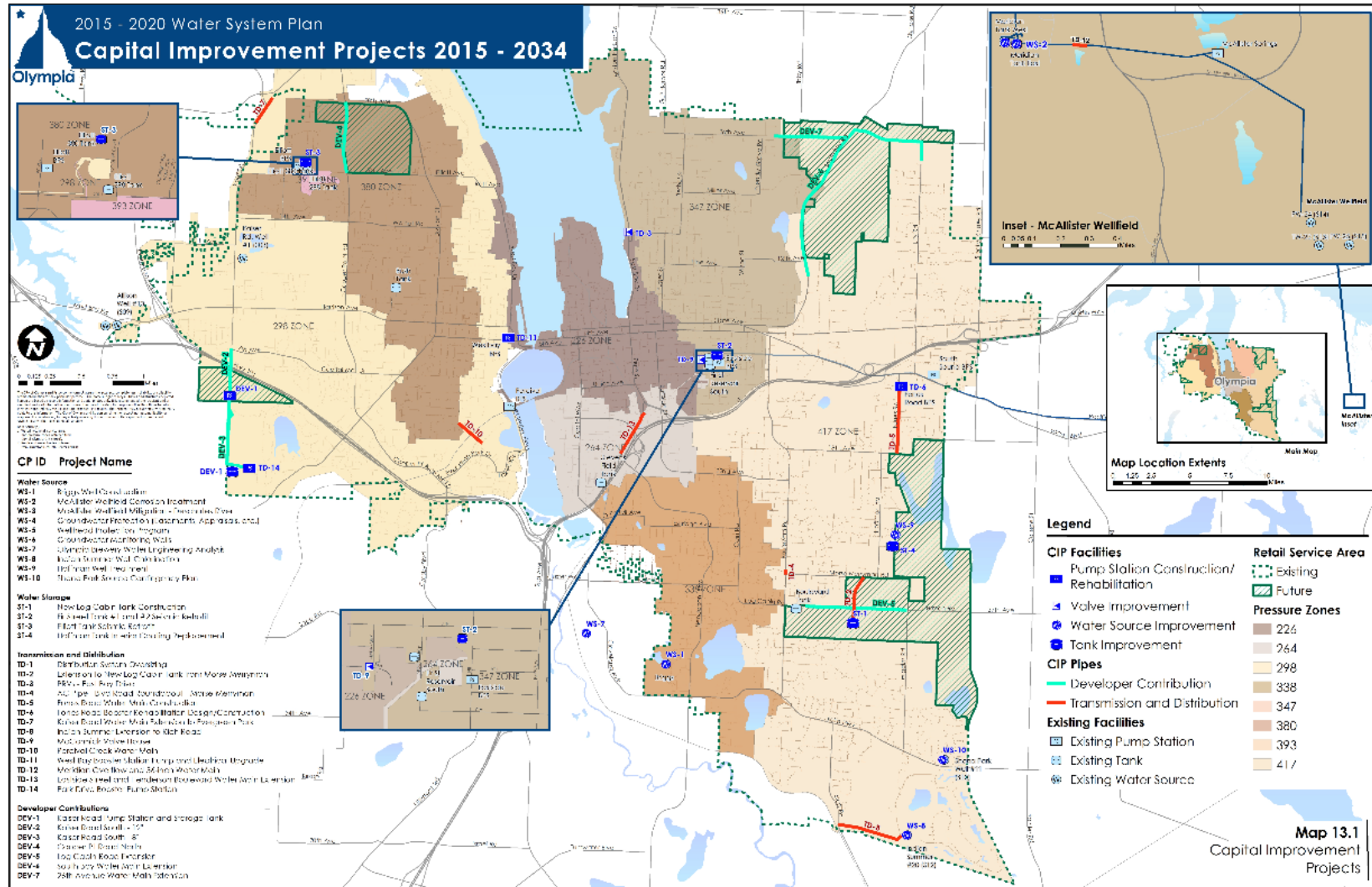
# Water System Plan

- **2015-2020 (6 year plan with option to change to a 10-year plan)**
- **Required by WAC 246-290-100**





# Capital Improvements Plan







# Water System Plan

## Key Challenges

- Aging infrastructure
- Changing water quality regulations
- Keeping up with development
- Protecting groundwater
- Equitable and predictable rates
- Public education and involvement





# Goals, Objectives, Strategies

**Goal 3.** Olympia's water supplies are used efficiently to meet the present and future needs of the community and natural environment. (Chapters 5 & 6)

**Objective 3A.** Reduce indoor use by an additional 100,000 gallons per day (gpd) over past program savings. (Chapter 5)

**Strategies**

1. Continue to implement flow reduction programs through partnership with the LOTT Clean Water Alliance and Cities of Lacey and Tumwater for single-family, multi-family and industrial/commercial/institutional (ICI) customers who receive LOTT sewer service.
2. Continue to implement water-saving programs for residential City water customers who are on septic systems and therefore cannot participate in the LOTT programs.
3. Continue outreach to raise awareness of the importance of water use efficiency.

**Objective 3B.** Reduce outdoor use by an additional 5 percent over past program savings. (Chapter 5)

**Strategies**

1. Continue to implement outdoor water use reduction programs for residential customers.
2. Continue to implement the Efficient Irrigation Hardware Rebate Program for ICI customers.
3. Continue outreach to raise awareness of the importance of water use efficiency.

**Objective 3C.** Maintain water loss below 10 percent of production. (Chapter 5)

**Strategies**

1. Continue to monitor water loss in the system annually, as required by the DOH, by evaluating production, authorized consumption (both metered and unmetered) and resulting Distribution System Leakage (DSL).
2. Continue to work closely with the Olympia Fire Department and surrounding fire districts to get accurate estimates of water used for fire suppression, fire flow testing, sprinkler flushing and training conducted off-site.
3. Continue to work closely with the Utility's Operations & Maintenance section to monitor water loss due to field use, main breaks and leaks, as well as expanding leak detection efforts.
4. If the water system exceeds the DSL standard, develop and implement a Water Loss Control Action Plan as required by DOH.





# Wastewater Management Plan

## Mission

- *to collect and convey wastewater to treatment facilities in a manner that protects the health of both the public and our environment*



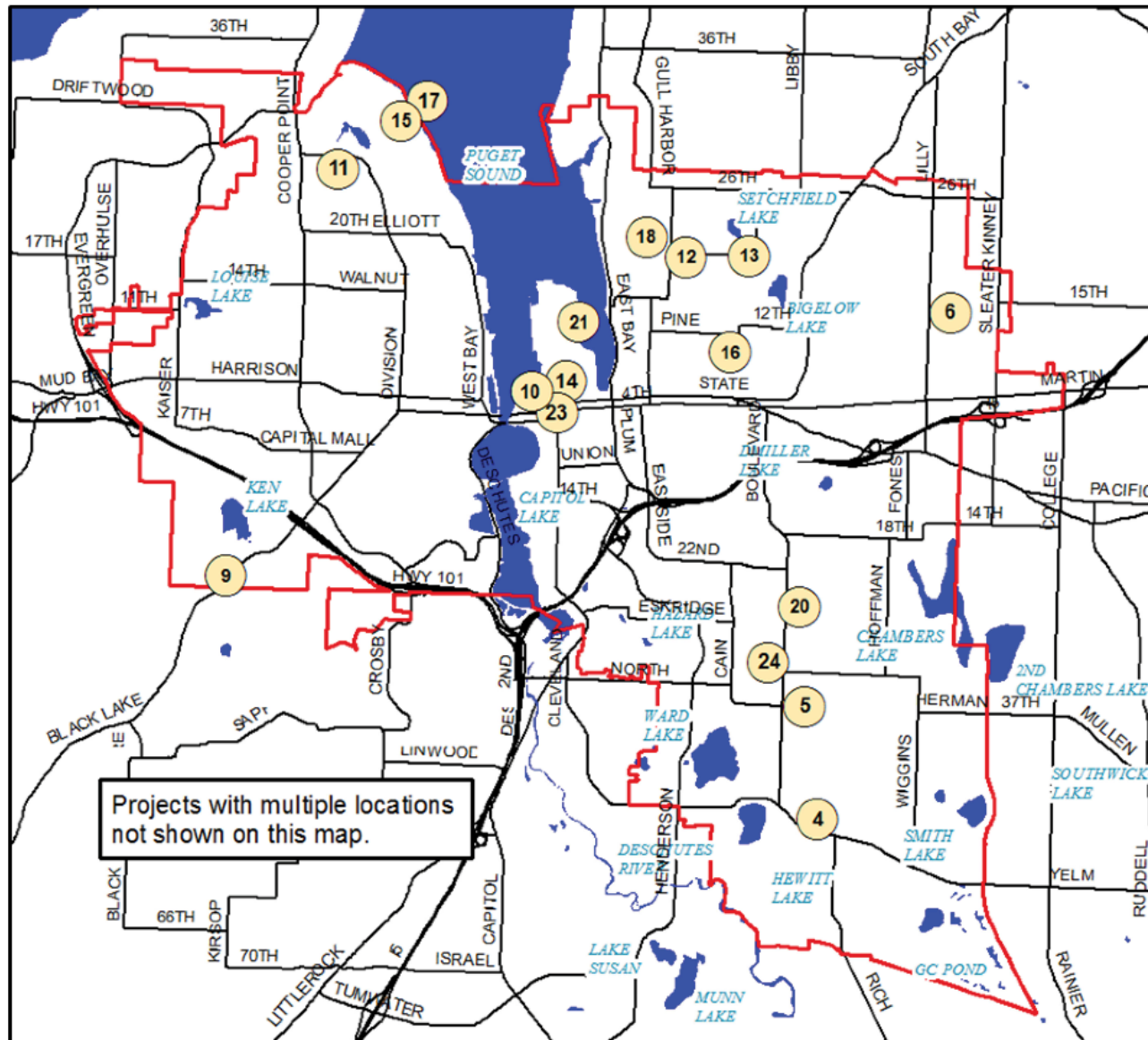


# Wastewater Management Plan

- **2013-2018 (6 year plan)**
- **Required by WAC 173-240-050**



# Capital Improvements Plan







# Wastewater Management Plan

## Key Challenges

- Existing infrastructure
- Onsite sewage systems
- Sewer extensions
- Coordination with LOTT
- Equitable and predictable rates
- Public education and involvement
- The biggest Sea level rise





# Goals, Objectives, Strategies

**Goal 1.** Clean Water Act and Safe Drinking Water Act standards for nitrogen, fecal coliform and other constituents of concern in groundwater and surface water are met.

**Objective 1A.** Identify and eliminate at least two illicit discharges of wastewater into stormwater conveyance pipes and receiving waters each year.

**Strategies**

1. In partnership with the City's Storm and Surface Water Utility, detect and eliminate illicit discharges using water quality testing, GIS analysis, remote video inspection and funding assistance.

**Objective 1B.** Manage existing and potential new OSS so there is no net annual increase in the total number of OSS in Olympia's sewer service area.

**Strategies**

1. Refine regulations regarding new OSS and repairs of existing OSS in order to accommodate the limited use of new OSS systems in appropriate circumstances.

**Objective 1C.** Encourage OSS conversions through the Septic to Sewer Program.

**Strategies**

1. Provide Utility funding for sewer extensions associated with individual OSS conversions.
2. Allow payment of wastewater connection fees for OSS conversions over longer periods of time.
3. Provide technical assistance and public education for individual and neighborhood OSS conversions to municipal sewer.



# Storm and Surface Water Plan

## Mission

- *to provide services that minimize flooding, improve water quality, and protect or enhance aquatic habitat*



DRAFT Storm and Surface Water Plan

August 2017



[olympiawa.gov/sswplan](http://olympiawa.gov/sswplan)





# Storm and Surface Water Plan

- **2017 – 2026 (10 year plan)**
- **No regulatory requirement**

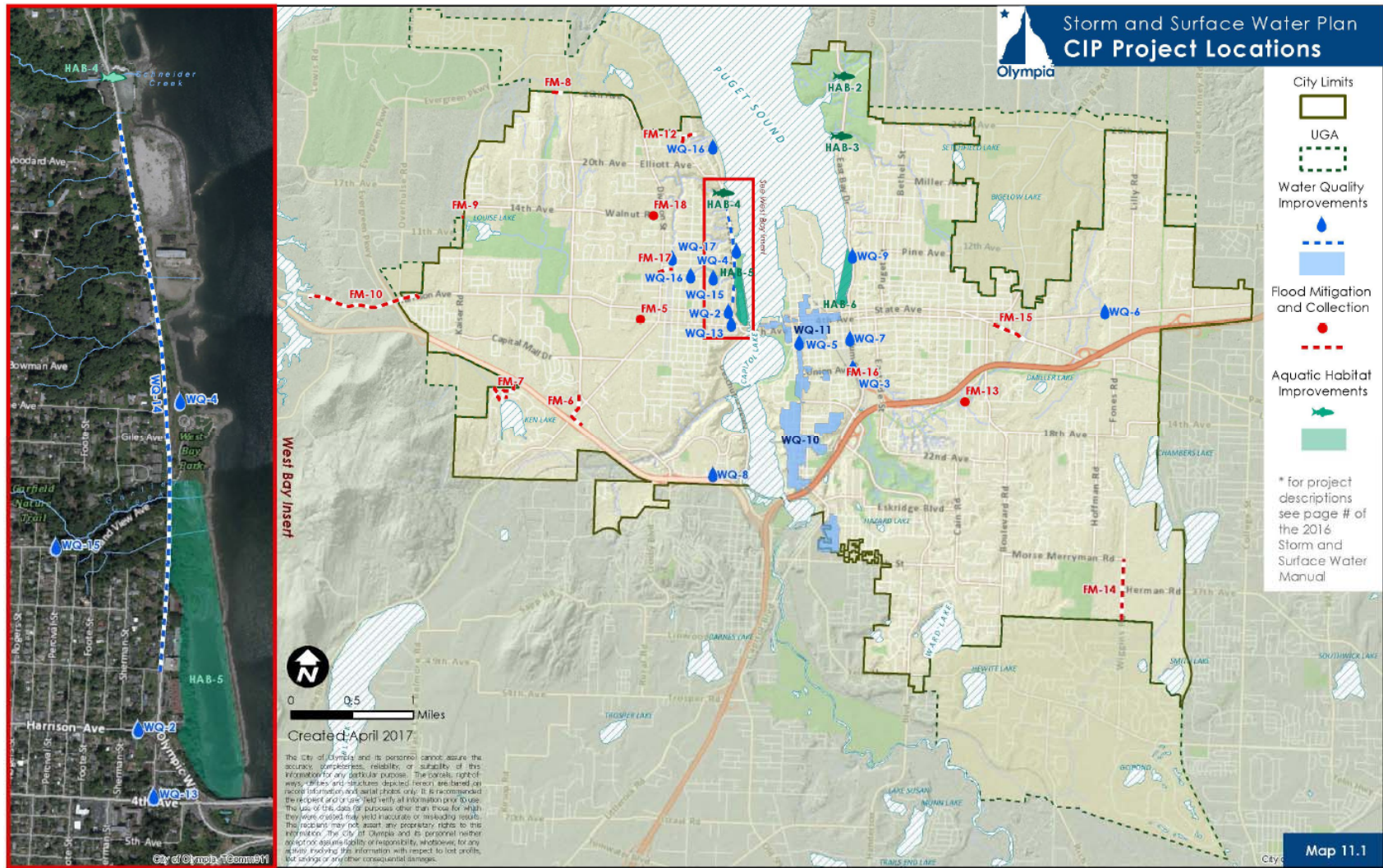


**DRAFT Storm and Surface Water Plan**  
August 2017



[olympiawa.gov/sswplan](http://olympiawa.gov/sswplan)

# Capital Improvements Plan





# Storm and Surface Water Plan

## Key Challenges

- Existing infrastructure
- Reliance on choices by individuals (WQ and habitat)
- Climate change/ sea level rise
- Asset management
- LID limitations
- Increasing permit requirements
- Equitable and predictable rates
- Habitat fragmentation



DRAFT Storm and Surface Water Plan

August 2017

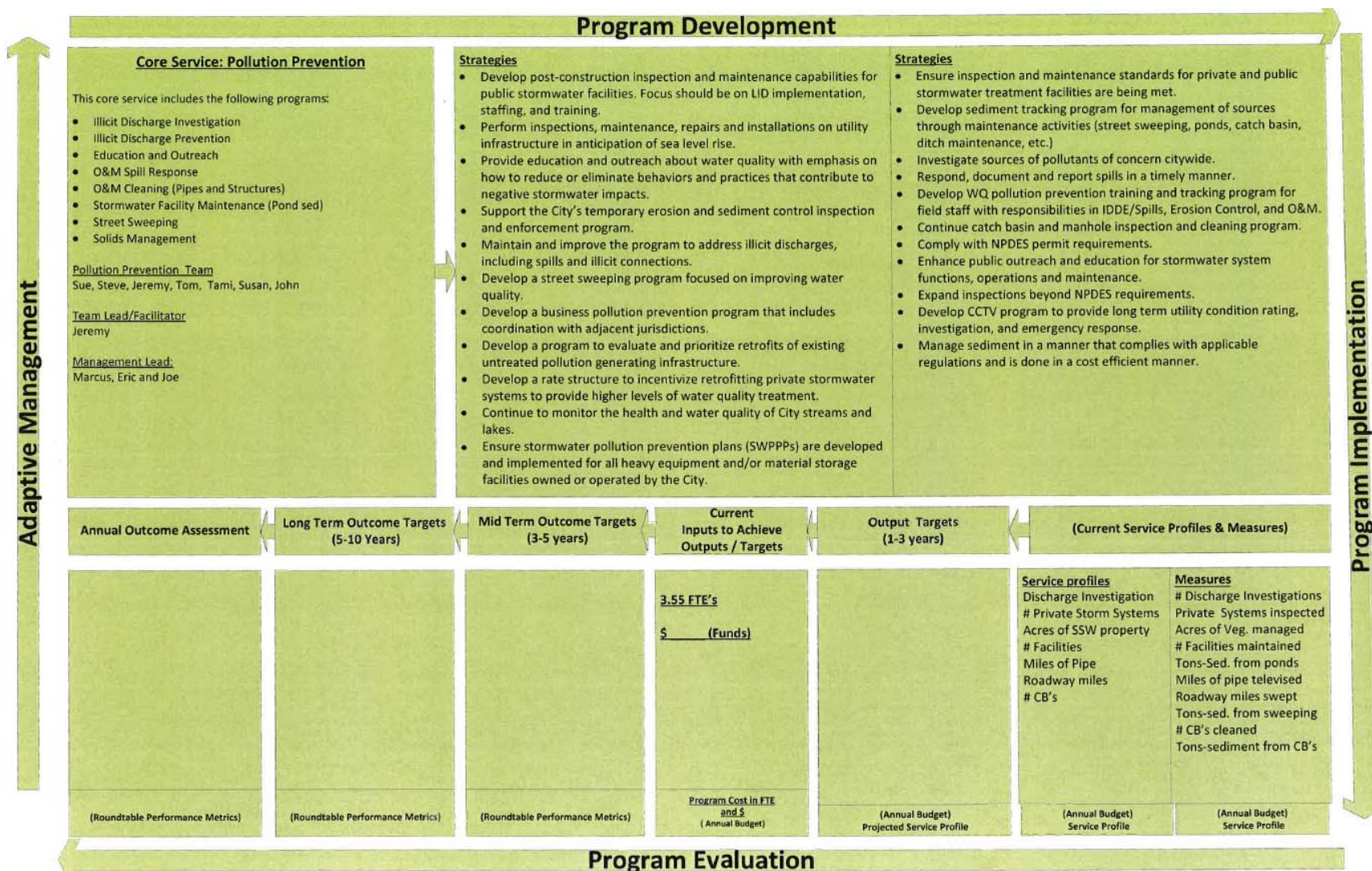


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# SSW Plan Implementation



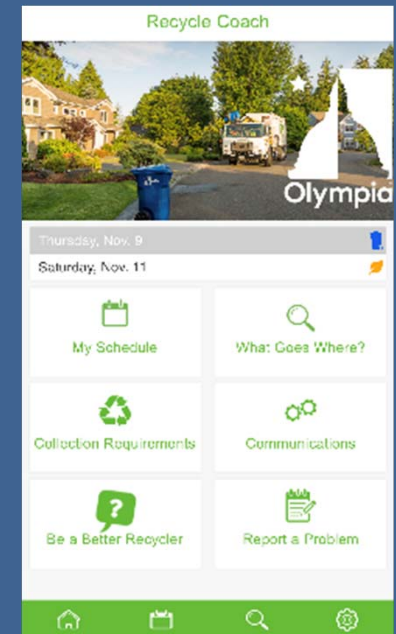
*2015 – 2020*  
*Waste ReSources Management Plan*

- Goal 1:** Reduce the quantity of waste generated and disposed of in Olympia
- Goal 2:** Increase the quantity of recyclable and compostable materials diverted from the landfill
- Goal 3:** Operate collection services safely and efficiently
- Goal 4:** Manage the Utility's finances responsibly, with fair, equitable rates that promote waste reduction and recycling



# 2017 Accomplishments

- Hauling and Processing Contracts (G-4)
- Route Efficiencies (G-3)
- Annexations (G-3)
- Technology in Collections (G-3)
- Downtown Shared Compactor (G-3)
- Recycle Coach (G-2 & G-3)
- Commercial Waste Assessments (G1 & G-2)
- Multi-Family Outreach (G-2)
- 3<sup>rd</sup> Grade Education (G-1)
- Development Review (G2, 3 & 4)





# 2018 Work Plan

- Cost of Service and Rate Study (G-4)
- Exploring 2<sup>nd</sup> Downtown Shared Compactor Site (G-3)
- 6<sup>th</sup> Grade Education (G-1)
- Lid lifts and Cart Tagging (G-2)
- Continue to Evaluate Commercial Recycling (G-2)
- Responding to China's Restrictions to Recycle Imports

