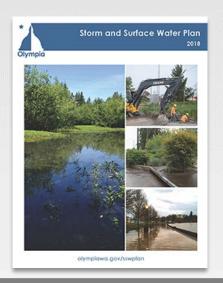


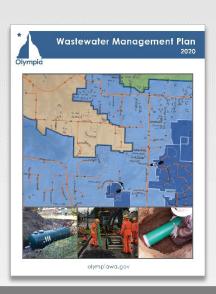
Introduction: Utility Missions

The **Stormwater Utility's** mission is to reduce flooding, improve water quality and protect and enhance aquatic habitat in Olympia.

The **Wastewater Utility's** mission is to collect and convey wastewater, also known as sewage, to treatment facilities in a manner that protects the health of both the public and the environment.

The **Drinking Water Utility's** mission is to provide and protect healthy drinking water for the community.







Introduction: Staff

Engineering & Planning Workgroup

2024 – Capital Facilities Plan Contributors

- Fran Love Stormwater Engineer
- David Dunn Wastewater Engineer
- Kin Tam Drinking Water Engineer
- Plus Tami Tonder & Sue Barclift









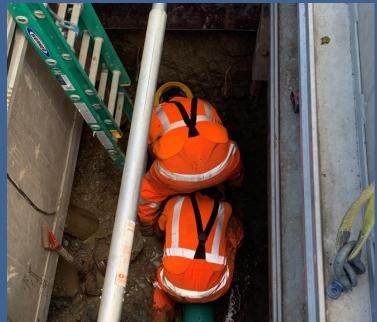
















2024-2029 Capital Facilities Plan

Tonight's Agenda

Overview

- Contents of the CFP
- CFP review process UAC's role
- Background about our decision-making processes

2024 Capital Facilities Plan

- 2023 accomplishments & carry-overs
- 2024 2029 projects

Questions



Capital Facilities Plan - Definitions

Capital Facilities Plan

A twenty-year plan to implement the comprehensive plan vision, showing how the City will provide urban governmental services at adopted levels of service standards for the existing and projected population growth in the City and Urban Growth Area. It includes projected timing, location, costs and funding sources for capital projects. The CFP identifies which capital facilities are necessary to support development/growth. Projects in the CFP are directly related to the applicable master plan or functional plans.

Capital Facilities

A structure, improvement, piece of equipment or other major asset, including land that has a useful life of at least 5 years and costs at least \$5,000.

Capital Budget

A plan of proposed capital expenditures and the means of financing them. The capital budget may be enacted as part of the complete annual budget, including both operating and capital outlays. The capital budget is based on the Capital Facilities Plan.

2024-2029 Capital Facilities Plan

Plan Contents

- Detailed 6-year "plan" with project descriptions
- 2024 = Budget Request
- Revenue assumptions <u>must be balanced</u>
- Year 7 to 20 list of projects <u>little detail</u>

Revenue Assumptions

•	Transfer from specific utility operating fund – considered new money (system
	reinvestment or depreciation funding)

- General facilities charges new money per customer growth projections
- Capital fund "cash on-hand"
- Grants or loans
 - Stormwater water quality projects
 - Loans used in later years to balance

Revenue Requirement Forecast		2019		2020		2021		2022		2023		2024
Revenues												
City Wastewater Rate Revenue	\$ 7	,029	\$	7,167	\$	7,307	\$	7,451	S	7,597	\$	7,745
LOTT Wastewater Rate Revenue	13	,662		14,347		15,067		15,824		16,618		17,452
Other Operating Revenue		34		35		36		37		38		40
Total	\$ 20	,724	\$:	21,549	\$	22,410	\$	23,311	\$	24,253	\$	25,238
Expenses												
City Operating Expenses	\$ 5	,848	S	6,018	\$	6,199	\$	6,386	\$	6,583	S	6,787
LOTT Charges	13	,662		14,347		15,067		15,824		16,618		17,45
Debt Service		606		604		606		602		604		58
System Reinvestment Funding		741		782		991		1,300		1,556		2,55
Total	\$ 20	,857	\$	21,751	\$	22,864	\$	24,112	\$	25,361	\$	27,37
Net Cash Flow	(\$	133)	(\$	202)	(\$	453)	(\$	801)	(\$	1,108)	(\$	2,133
Bond Coverage at Existing Rates		2.42		2.50		2.36		2.27		2.16		2.1
Annual City Wastewater Rate Increase				4.5%		4.5%		4.5%		4.5%		4.5%
Summary After Rate Increases:												
Net Cash Flow	(\$	133)	\$	80	S	135	\$	119	\$	171	(\$	465
Debt Service Coverage		2.42		3.07		3.53		4.10		4.71		5.5
Operating Fund Ending Balance		.975	\$	3,054	S	3,189	\$	3,308	\$	3,479	\$	3,01
Operating Fund Minimum Balance	\$ 1	.951	\$	2.037	S	2.127	\$	2.221	s	2.320	S	2.42

Handouts: 6-Year CFP

	2023	0004	2225	2222	2027	2222	2222
DRINKING WATER PROJECTS	Projected Spending	2024	2025	2026	2027	2028	2029
ASPHALT OVERLAY ADJUSTMENTS							
Asphalt Overlay Adjustments	\$14,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
INFRASTRUCTURE PRE-DESIGN AND PLANNING							
Pre-Design and Planning	\$50,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
SMALL DIAMETER WATER PIPE REPLACEMENT							
Small Diameter Water Mains	\$300,000	\$120,000	\$300,000	\$522,000	\$522,000	\$522,000	\$522,000
Union and McCormick Water Mains	\$234,725	\$120,000	\$300,000	3322,000	\$322,000	\$322,000	\$322,000
2022 small diameter	\$20,000						
7th and boundary	\$20,000						
·							
TRANSMISSION AND DISTRIBUTION PROJECTS							
Security and Remote Systems Program	\$44,550	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000
Asset Management Program	\$15,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000
Fones Road Improvement Project	\$2,360,517	\$1,250,000	\$40,000				
36-Inch Transmission Main Condition Assessment & Enhancements	\$10,000						
Union and McCormick Water Mains	\$665,275						
AC and Aging Pipe Replacements				\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
Distribution Main Assesment	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Elliott Ave Watern Main	\$308,000		\$308,000	\$208,000			
Distribution System Oversizing		\$30,000		\$30,000	\$30,000	\$30,000	\$30,000
Transmission Main Seismic Valve		\$150,000	\$1,200,000				
Booster Station Upgrades/Rehabilitation		\$250,000	\$525,000	\$50,000			
Eastside Street and Henderson Boulevard Water Main Extension				\$809,514	\$817,486		
On-site Generator Replacement Plan			\$100,000				
Zone 417 to 347 PRV Stations Installation		\$50,000	\$260,000				
New PRV Installations	\$40,000		\$40,000		\$40,000		
Decatur 298 Zone Connection							\$150,000
Ci Tech Software Upgrade	\$130,288						

2024-2029 Capital Facilities Plan

Review Process & UAC Role

Provide advice to the City Council, the City Manager's office, the <u>Planning</u> <u>Commission</u> and the <u>Public Works Department</u> in developing the Capital Facilities Plan.

Provide policy advice and direction on the setting of utility rates.

Draft List of Capital Projects Tonight

- September 22, 2023, summary of comments for planning commission.
- October 4, 2023, summary of comments/recommendation for council.

Revenue Requirements (Rate Adjustments) Later

- September 7, 2023
- October 5, 2023

Review Process & UAC Role

Planning Commission review

- Does the Capital Facilities Plan make investments needed to implement the Comprehensive Plan?
- Are there investment gaps to adequately implement the Comprehensive Plan?
- In future Capital Facilities Plans, how can the City better implement the Comprehensive Plan?

WATER RESOURCES (Storm and Surface Water Utility & Wastewater Utility) AND DRINKING WATER UTILITY RESPONSES

OPC Finance Subcommittee

CEP Comments and Question for Discussion with City Staff on September 12, 2022

General Comments & Questions:

 Page 1-9 Graphic is outdated. Were the Water System Plan and Waste ReSources Management Plan updated in 2021 as planned?

Drinking Water Utility Response: As of September 8, 2022 one Water System Plan chapter remains pending. The Drinking Water Utility expects to submit the draft Water System Plan to its regulator, the Washington State Department of Health, in October.

- Under funding for some programs, it states "transfer from fund balance." What fund does this refer to? Is each program a separate fund?
- Can you explain generally, why City of Olympia has chosen to set up various programs (e.g. ADA accessibility, CAMP) under which pretty much all projects fall as compared to what is seen more typically in which each project being separate within the larger departments funding request and programmatic projects being used to manage smaller groups of semi-regular projects?
- 4. Is there a location where total project costs can be seen for each project (past, and future cost)?

Water Resources and Drinking Water Utility Response: All three utilities monitor total project costs using a variety of sources, including computer software programs (such as E-Builder and Crystal Reports) and monthly capital project reconciliation spreadsheets prepared for us by finance.

What guidelines does City of Olympia follow for determining whether something should be paid out
of operations budget versus capital budget? (For example, in some cases in the CFP assessments are
paid out of Capital funds and they may or may not result in a capital project).

Water Resources and Drinking Water Utility Response: When making operating vs capital funding decisions all three utilities rely on the advice provided by Finance.

For disparate project types which can pull from the same pot of funding (e.g. REET, Cable Tax, VUT) how does the City determine how funding will be prioritized amongst these projects? The City has previously explained how like projects are scored, but the explanation of different categories of projects being prioritized has not been provided.

L

Where Projects Come From

Drinking Water	Wastewater	Storm & Surface Water			
Hydraulic Model Capacities	Hydraulic Model Capacities	Flooding Events			
O&M Inspections	O&M Inspections	O&M Inspections			
Main Breaks and Leaks	CCTV Inspections	CCTV Inspections			
Asset Management – Age/material	Septic to Sewer extensions	Water Quality - SMAP			
Water Rights Perfection/Mitigation	Asset Management – Age	Habitat Planning			
Coordination with other LOBs	Coordination with other LOBs	Coordination with other LOBs			

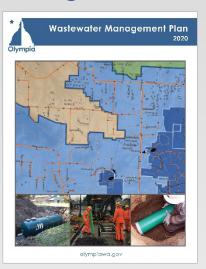
Utility Planning

Storm and Surface Water Plan



No planning requirement.
Completed in 2018.

Wastewater Management Plan



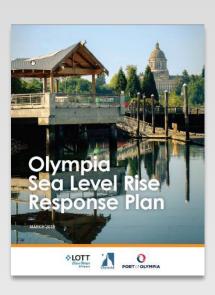
Required only at wastewater utility establishment.
Completed in 2020.

Water System Plan



Required to be updated every 6 years. ALMOST APPROVED.

Sea Level Rise



Storm & Surface Water Utility helps fund implementation.

Stormwater Operations Problem Solving (STOPS)

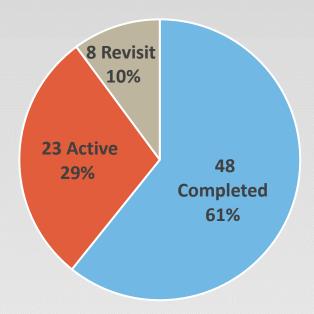
STOPS investigates, evaluates and prioritizes all storm and surface water related problems.

Priorities

- Infrastructure failures
- Structural flooding
- Primary vehicle lane flooding
- Significant erosion
- Available funding

Remedies

- O&M in-house projects
- Streets in-house projects
- Capital projects
- Storm & Surface Water Plan



Annual resolution of stormwater issues coordinated through STOPS:

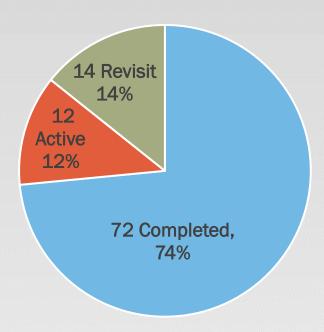
• 79 items in 2022

Wastewater Operations Problem Solving (WWOPS)

WWOPs investigates, evaluates, and prioritizes all wastewater related problems

Remedies

- O&M in-house projects
- Capital projects
- Wastewater Management Plan



Annual resolution of wastewater issues coordinated through WWOPS:

• 98 items in 2022

Asset Management: Our Journey has Begun

Why Manage Assets?

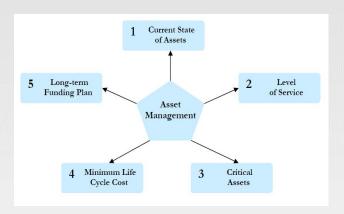
Public utilities have a commitment to provide safe and reliable services to their communities, in perpetuity.

Asset Management

A system for monitoring and maintaining our infrastructure at a desired level of service and at the best appropriate cost.

Core Asset Management Elements:

- An inventory of critical assets.
- Evaluation of condition and performance.
- Understanding of consequence/risk of failure.
- Plan to maintain, repair, and replace those assets.
- Engineering plans AND long-term financial planning.



Asset Management: Our Journey has Begun

Define Asset Management for Ourselves

- Common understanding of process & vocabulary
- Asset Management Vision for our 3-water related utilities to guide our asset management work

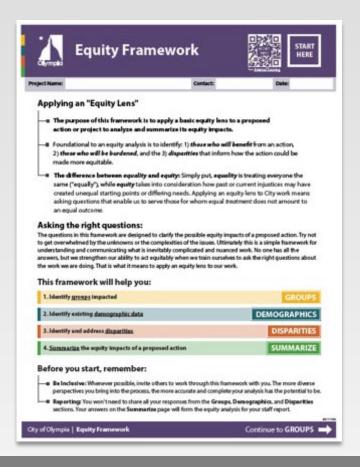
Develop an Asset Management Strategy

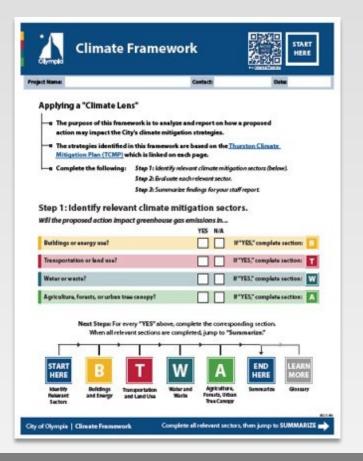
Re-established the Asset Management / Decision-Making UAC Briefing

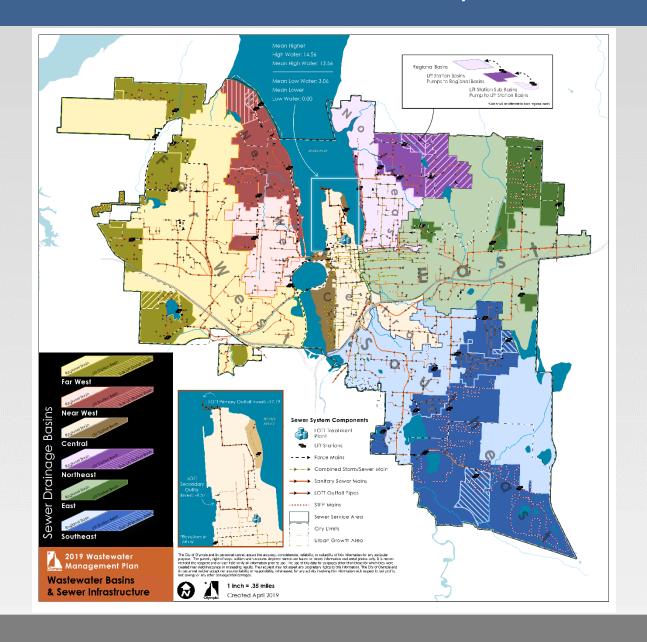
Evidence-based justification for why projects are important and why money should be invested to address our aging infrastructure.

New Climate and Equity Frameworks

Current Policy PU1.4: Make necessary improvements to utility facilities that do not currently meet minimum standards. Prioritize capital improvements to existing systems based on age, condition, risk of failure and capacity **while also balancing the fair distribution of services and benefits to the entire community**.







Condition rating of Critical Assets

Three videos

2023 Accomplishments

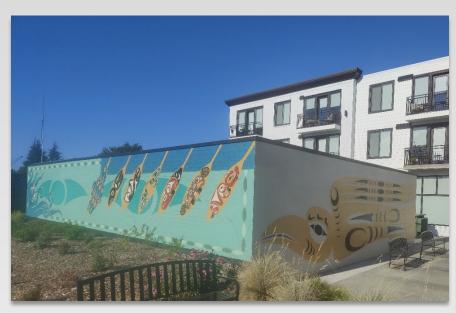
- Miller and Central Lift Station complete started in 2020.
- Water Street Lift Station Generator emergency generator at Percival landing.
- Garfield Nature Trail Trestle maintenance elevated sewer crossing the valley.
- Porta Court sewer extension sewer extension to decommission 16 septic systems.
- Division and Jackson Lift Station wetwell repairs.
- Miller and Ann Lift Station emergency power design.
- 4th Ave sewer pipe upsize design.

2023 Projects carried over

- 6th Ave sewer extension.
- Van Epps sewer extension.



Water Street Lift Station Generator





Street Reconstruction Asphalt Adjustments

Casting adjustments and replacements.

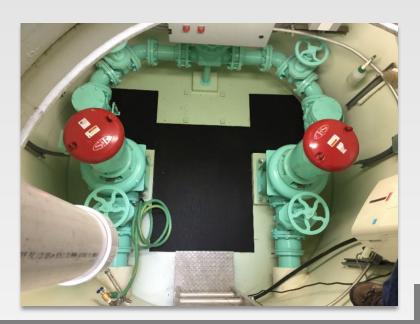
Transmission & Collection highlights

- Many routine repairs are reflected in the maintenance budget.
- B Street sewer replacement.
- Cured-in-place-pipe (CIPP) project to rehabilitate pipes or sections of pipes.
- New program to partner with development to replace aging infrastructure.



Lift Station Highlights

- Construction of the Old Port 1 lift station and forcemain.
- Miller & Ann lift station emergency power design. Construction planned in 2004.
- Rossmoor lift station: design in 2025 for 2026 construction.
- Old Port 2 lift station: begin design in 2028.

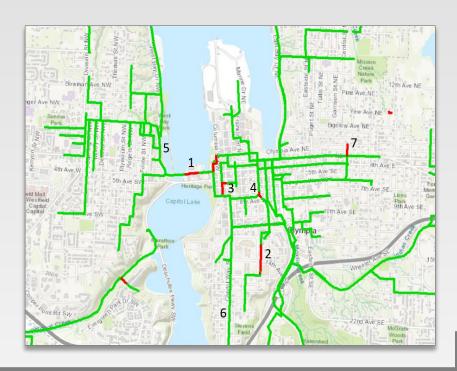


Sewer System Planning

- Pre-design and planning continue for replacing the sewer on Percival Creek bridge with a new sewer under the creek.
- Anticipate FEMA BRIC funding for the project.

Pipe Capacity Upgrades

- Design of 4th Ave capacity increase project. – address capacity bottleneck at 4th Ave bridge.
- The 2020 Wastewater Management Plan identified areas in the City facing pipe capacity issues in the coming years.



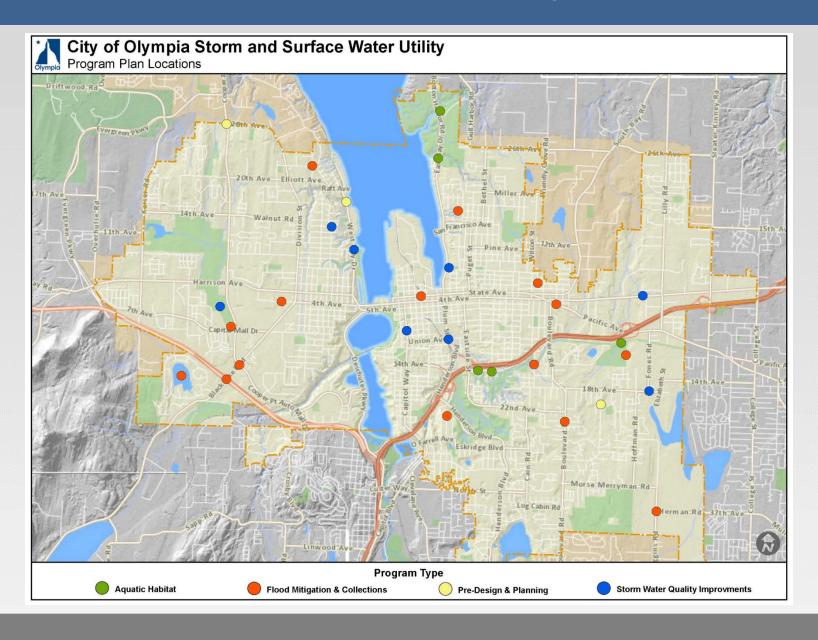
Onsite Sewage System Conversion

- 6th Avenue Sewer Extension Project.
- Public outreach and update to the Neighborhood Sewer Extension List.
- CFP includes budget for additional future sewer extensions.

Program 9903 Predesign & Planning

- Scoping for complex projects.
- Update of Wastewater Management Plan.





Martin Way & Pattison Street CIPP Before and After



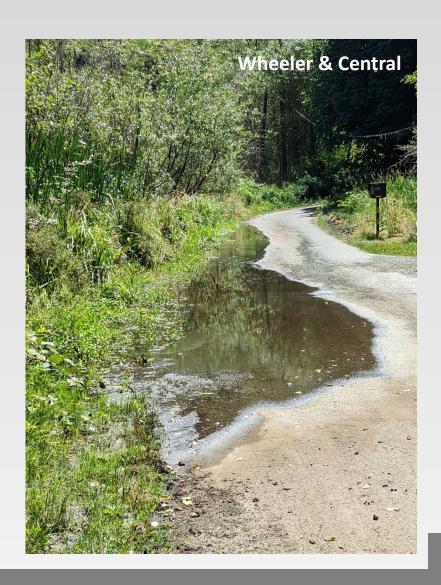




2023 Accomplishments

- Brawne Ave water quality design at 90%
- New street sweeper October arrival
 - Enhanced street sweeping plans
 - O&M Plans
- Property acquisition Wheeler & Central
- Identified new predesign projects





Program 9024 – Aquatic Habitat Improvements

- Property Acquisition
- Ellis Creek/East Bay Drive Fish Passage
- Woodard Creek/Woodard Trail Fish Passage
- Mission Creek/East Bay Drive Fish Passage
- Indian Creek/East Bay Fish Passage

Program 9903 – Pre-Design and Planning

- Infrastructure Pre-Design and Planning
- Schneider Creek Fish Passage Design
- Pear Street Conveyance
- Frederick Thurston Pond
- Allen Road Ponding
- 28th Ave Ponding



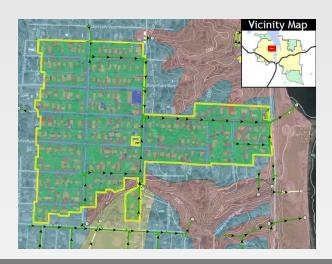


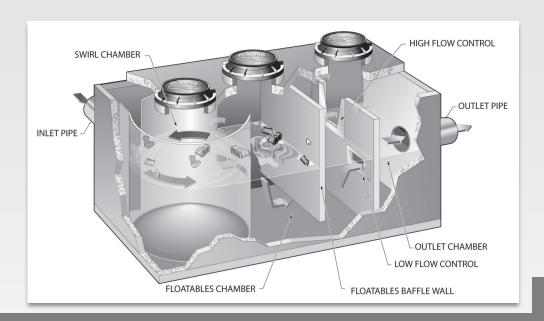
Program 9027 – Water Quality Improvements

- Brawne Ave water quality retrofit
- Neighborhood LID design project
- Enhanced street sweeper program
- Street sweeper parking
- Stormwater facility educational signs

- Fones Road swale water quality retrofit
- East Bay Drive water quality retrofit
- Capitol Way water quality retrofit
- Union Ave @ Plum St water quality retrofit
- Martin Way @ Mary Elder quality retrofit

Brawne Ave – Contech Vortechs will treat nearly 59 acres of land





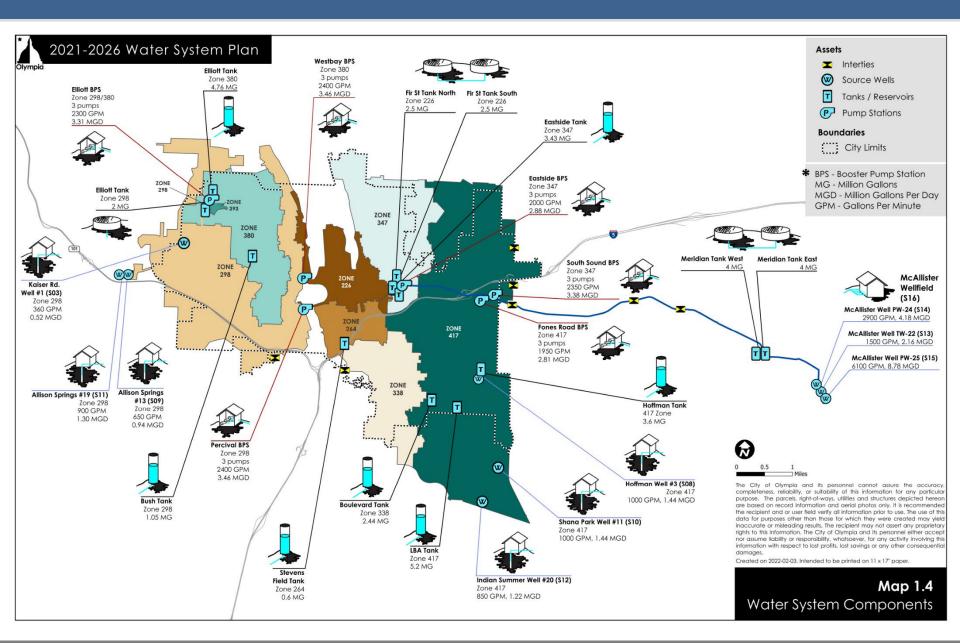
Program 9028 – Flood Mitigation

- Conveyance spot repairs
- Condition rating of existing conveyance
- Public pond rehabilitation
- Cured in Place Pipe Lining (CIPP)
- Downtown flood mitigation/Sea Level Rise

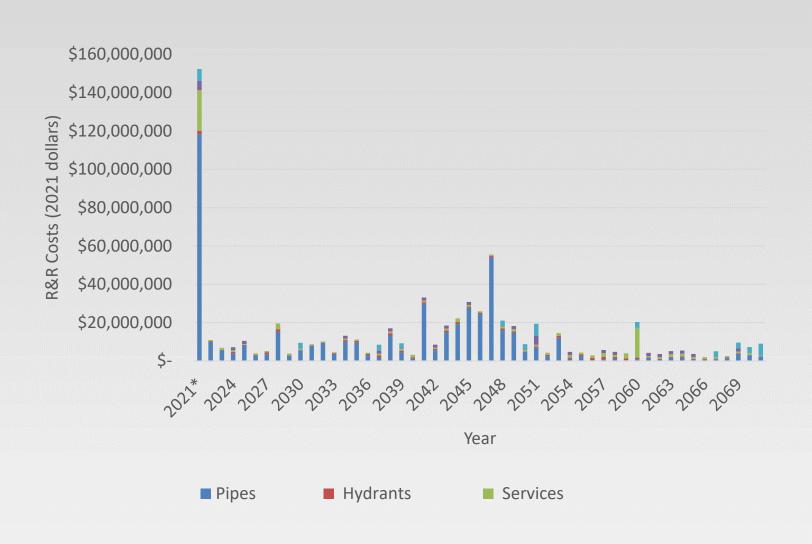


Buker erosion control and stormwater improvements

- Ascension and 4th Ave facility
- Wiggins Road ditch reconstruction
- Pacific Avenue at Chambers Pipe
- 1400 block Frederick St SE culvert replacement
- Ken Lake flood conveyance
- 2300 Block Crestline Blvd conveyance & street improvements
- Westside storm conveyance
- Taylor Wetland bar grate
- Cooper Point stormwater conveyance
- 1400 Blk Frederick St culvert
- Pear Street conveyance
- Frederick/Thurston pond
- Holly Ln & Boulevard conveyance
- Buker stormwater improvements



Renewal & Replacement Costs



2023 Accomplishments

- Union and McCormick main replacement started in 2021
- McAllister domestic well tribal/water right mitigation obligation
- Deschutes Watershed payment! water right mitigation obligation
- Variable Frequency Drive (VFD) at Allison/Shana Park
 designed and ordered
- Boulevard tank seismic upgrades
 — Drinking Water
 State Revolving Fund Loan
- Supervisory Control & Data Acquisition (SCADA) system upgrade
- Security upgrades/fencing Hoffman tank





2023 Projects Pushed-out to 2024

- Briggs Well development design
- Fire suppression systems installation at Allison and Shana Park
- Sole source aquifer designation McAllister Wellfield
- Brewery water engineering analysis
- Rancho Serino mitigation

Other Project Delays

- Eastside Street and Henderson Blvd water main extension
 - 2024/2025 to 2026/2027
- McAllister 36" transmission main seismic valves
 - Recently informed WSDEM holding our \$1.2 grant

Source Projects

- Four pushed out projects & completing VFD replacements
- Obligations at Deschutes River property

Storage Projects

- Completing Boulevard Road Reservoir
- Eastside Reservoir reconstruction (2026 & with debt)
- Storage Tank coatings (2027)





Allison Well VFD

Distribution System Projects

- Two delayed projects
- Fones Road main replacement (2023 2025 at a projected \$3.6M)
- Annual small diameter projects (\$120,000 in 2024, \$300,000 in 2025 then \$522,000 beginning in 2026)
- Annual asbestos cement/aging infrastructure (\$1M beginning in 2026)





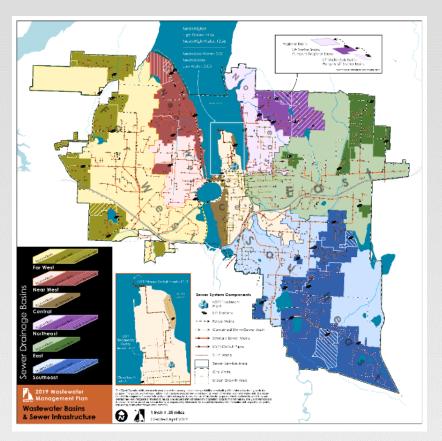
Waste Resources Utility CFP

Carpenter Road Maintenance Facility 2022

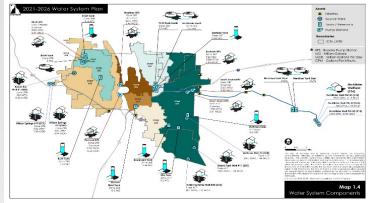


- Background
- 2018- 2022
 status update

Questions and Discussion









Susan Clark

Public Works Water Resources sclark@ci.olympia.wa.us 360.753.8321

Infrastructure Decisions

- Stormwater Operations Problem Solving (STOPs)
- Wastewater Operations Problem Solving (WWOPs)
- Drinking Water Coordination Team
- + City Project Planning GIS Data Layer



STOPS TEAM - In 2021:

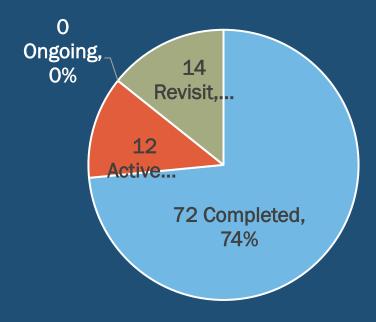
- 78 Items Reviewed
- 58 Items Completed (74%)

WWOPS TEAM – In 2021:

- 119 Items Reviewed
- 65 Items Completed (55%)

WWOPS

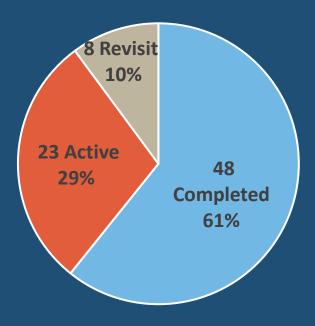
Annual resolution of wastewater issues coordinated through WWOPS



98 items discussed in WWOPS in 2022

STOPS

Annual resolution of wastewater issues coordinated through STOPS



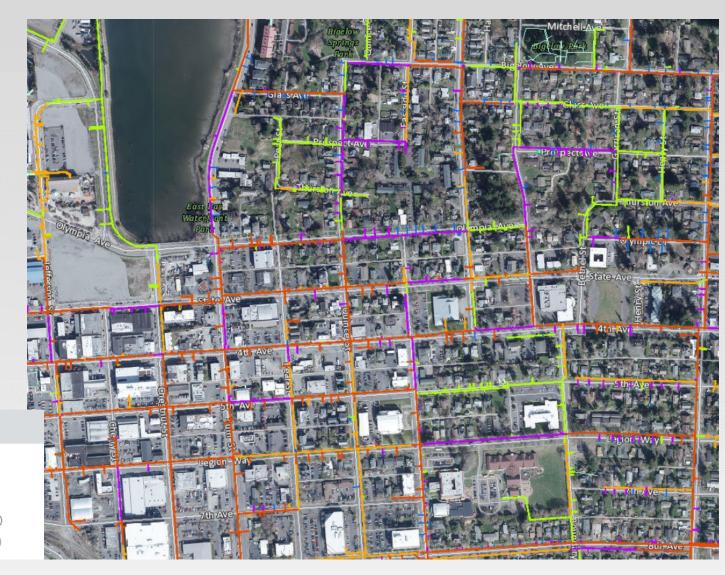
79 items discussed in STOPS in 2022

Capital Project Generation

- DEI Framework
- Climate Framework
- Asset Management
- CityWorks Work Order System
- Benchmarking
- Capital Facilities Planning
- O&M Inspections
- Hydraulic Modeling

- CCTV Inspections
- Flooding Events
- Age
- Age/Material
- Financial Planning
- Management Plans
- O&M Inspections
- Performance Tracking

Drinking Water Condition Rating



waPipe (Ratings)

— Hig

— Lov

Medium (COF driven)

Medium (POF driven)