Water System Plan Update Briefing

Utilities Advisory Committee April 1, 2021



Water System Plan Update Project Briefing

Tonight's Agenda

Refresher – Planning Requirements
2015-2020 WSP Accomplishments
Writing Team Focus
Next Steps



Log Cabin Reservoir Construction

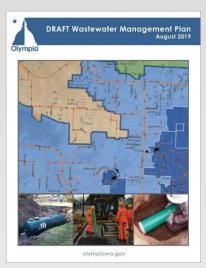
Utility Planning - Background

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, next update due January 2022.

Water System Plan

Focus of the WSP

- Service area policies
 - How will you provide service?
- Water demand analysis
 - What water demands will you have based on growth projections?
- System capacity analysis
 - Does the system have the legal and physical capacity needed to meet its demands?
- Hydraulic analysis
 - Can the distribution system meet peak demands?
- Water Use Efficiency program and goal
- Description of system assets, including age

Focus of the WSP - Continued

- Source Water Protection Program
 - Have we mailed letters to owners of potential contaminate sites in our wellhead protection areas?
- Operations and Maintenance Program
- Capital Improvement Program
 - Have we included projects to address our deficiencies?
- Financial Program
 - Must demonstrate financial viability
 - Include past 3-years income and expenses
 - Balanced budget



The purpose of this Pre-Plan is to:

- 1. Determine the scope and level of detail of the WSP update
- Establish a schedule for submittal of the WSP update.

WATER SYSTEM PLAN FORMAT:

The following sections refer to information that needs to be included in the WSP and provides a propose outline. You may choose a different format, but all of the elements identified below must be included.

	√Required.	Content Description	WSP Page #
Chapter 1	-	Description of Water System	_
	(√)	Updated WFI, signed and dated.	Click to Enter
	(4)	Ownership and management.	Click to Enter
	(1/)	System history and background.	Click to Enter
	(4)	Description of and discussion about related plans: CWSP, groundwater management plan, WRIA and City and County land use plans & zoning.	Click to Enter
	(√)	Service Area Maps: This is often missing from first submissions, but is a very important element of a WSP. These maps or map should clearly	Click to Enter
		show the service area, including the retail service area, future service area (CWSP jurisdictions only), and water rights place of use. These can be depicted on one map if properly labeled.	
		 The future service area should be as shown in the most recent CWSP. 	Click to Enter
	(√)	Policies: Service area, SMA, conditions of service, annexation. • Please see Publication DOH 331-438.	Click to Enter
	(√)	Duty to serve requirement: procedures, conditions, appeals. • Please see Publication DOH 331-366.	Click to Enter
	(√)	Consistency from local planning agency (LGC statement). Please have this reviewed and signed by the City/County Planning Department. LGC form is at:	Click to Enter
		http://www.doh.wa.gov/Portals/1/Documents/Pubs/331-568.docx	
Chapter 2		Planning Data	
	(√)	 Demand analysis based on water use. 	Click to Enter
		 Include analysis of population, service connections & ERUs. 	Click to Enter

Engagement & Outreach

- Customer information meeting
- Water use efficiency goal set in a public forum
- Conduct environmental review State Environmental Policy Act (SEPA)
- Make WSP available to neighboring water systems
- City Council must approve the WSP

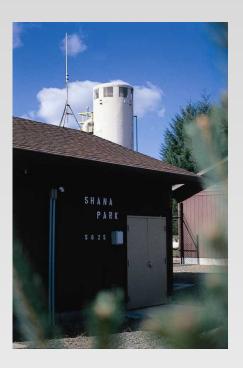






Issue Focus

- Our Water Sources
 - Switch to McAllister Wellfield 2015 WSP Focus
 - Southeast Olympia production wells Shana Park well
 - Drilling monitoring well Log Cabin reservoir site
- Our Storage Infrastructure
 - Seismic and Condition Assessment of our reservoirs
 - Elliot and Fir Street Work Started
 - Boulevard Tank 2020 Loan Application
 - Eastside & Hoffman & others
- Our Aging Infrastructure
 - Continue to expand Asset Management Program
 - Replacement Costs & Effective Life



Water System Plan Update Writing Team



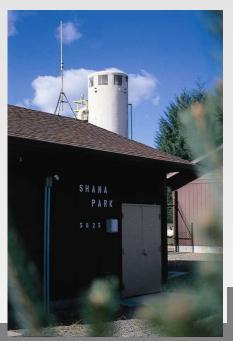
2015-2020 WSP Major Accomplishments

- Reservoirs
 - Log Cabin Storage Tank constructed (2019)
 - Fir St #1 and #2 Storage Tanks Structural upgrades and seismic retrofits (2020)
 - Elliot Storage Tank Structural upgrade and seismic retrofits (2020)
 - Eastside Reservoir Structural and seismic evaluation (2020)
- Corrosion Control Treatment Facilities at the Meridian Tanks constructed (2018)
- Fones Road Booster Pump Station constructed (2017)



2015 - 2020 WSP Major Accomplishments

- Kaiser Rd Water Main Extension to Evergreen Park constructed (2019)
- 3,733 feet of existing small diameter substandard water main replaced
- 4,474 feet of existing aging and asbestos cement pipes replaced
- Shana Park Well Contingency Plan



Writing Team Focus

- Risk & Resiliency Assessment
 - Completed per Federal deadline
 - Projects to be incorporated into WSP
- Emergency Response Plan
 - June 30, 2021 due date
 - Looking good now, few revisions required
- Goals & Objectives reviewed
 - Provided to UAC in November
- Strategies reviewed & updated
- Financial Review
 - Project Kick-off meeting yesterday
- Chapter updates happening
 - Demand forecast
 - Implementation
- Pilot well at Log Cabin Reservoir site





WSP Draft Strategies

How will we go about accomplishing our objectives?

- Edits to simplify language
- Updated water quality strategies to reflect new requirements
- Revised reclaimed water strategies to reflect regional focus on infiltration (rather than direct use)
- Added 2 new strategies on engaging with customers
 - Continue to produce the annual consumer confidence report
 - Consider postcard mailings as a way to communicate to our customers
- Revised a maintenance strategy to remove "park-like setting"
 - Maintain buildings and grounds for function, safety and neighbor aesthetics
- Added: Following emergencies, conduct a briefing and prepare an afterhour report
- Financial, water conservation and climate related strategies PENDING

Writing Team Next Steps

- Goal September submittal to Department of Health
 - August UAC review
- Complete hydraulic modeling
- Establish new conservation goal
- Evaluate our sources (against our demands)
- Prepare 6 and 20-year capital facilities plan
- Complete financial review
- Finish chapter updates
- Stakeholder and community review period





Questions and Discussion





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