Storm & Surface Water Plan Update



Utility Advisory Committee March 3, 2016

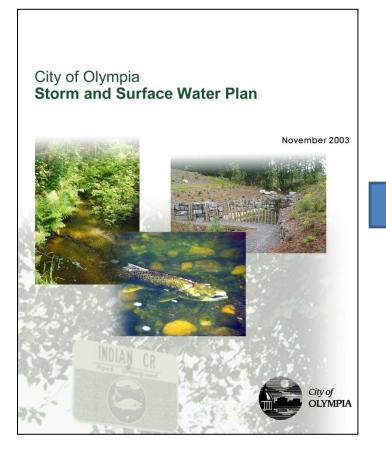
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Storm and Surface Water Plan Update

Tonight's Agenda

- Planning Framework
- Policy Guidance
- Emerging Issues and Challenges
- Policy Questions
- Draft Goals and Objectives

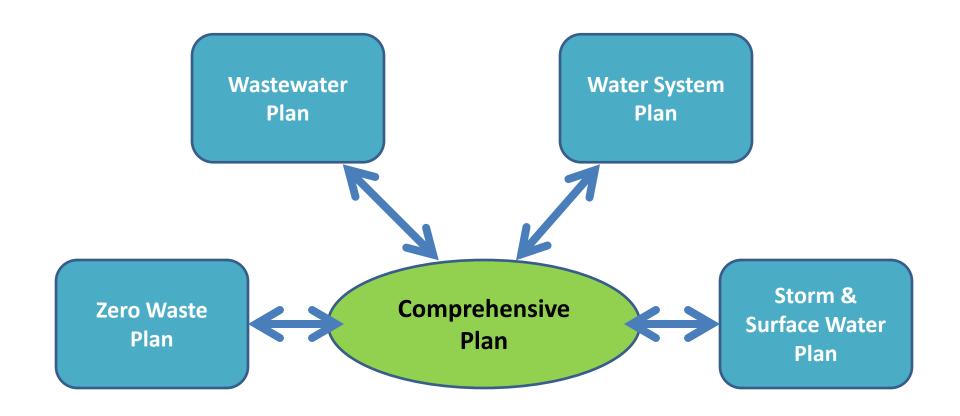


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Accomplishments since 2004

- Flooding has been greatly reduced
- Performed analysis of basins to help inform project prioritization
 - Implemented a new rate structure
- Restored estuary functions at mouths of Allison Springs and Mission Creek
- And much more...

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Water Resources Plans



City of Olympia | Public Works | olympiawa.gov/plans

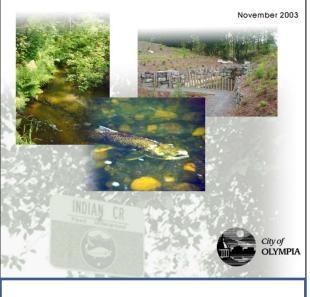
Dept. of Health approved



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Dept. of Ecology approved

City of Olympia Storm and Surface Water Plan



No requirement



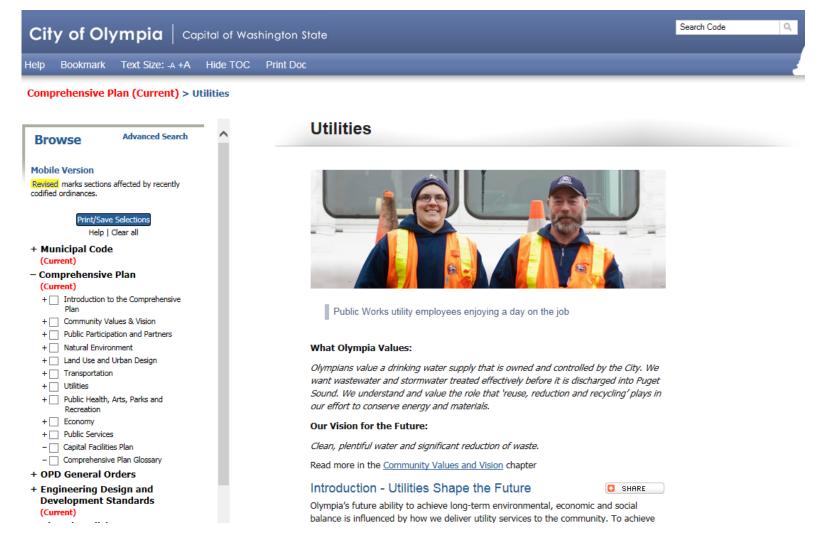
Regulatory and Policy Framework for Storm & Surface Water

| | Regulations and Statutes | Plans and Policies |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Federal | Clean Water Act Endangered Species Act Tribal Treaty Rights Surface Water Standards | |
| State | Phase II Municipal Stormwater Permit Ecology's Stormwater Management Manual for Western WA Total Maximum Daily Load (TMDL) | Puget Sound Partnership Action Agenda |
| City | Olympia Drainage Manual Engineering Development and Design Guidelines Olympia Municipal Code | Comprehensive Plan Capital Facilities Plan Storm & Surface Water Plan |

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Policy Guidance

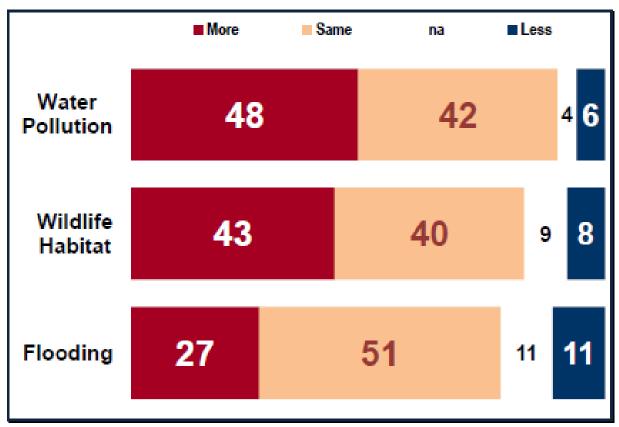
Olympia Comprehensive Plan



Water Pollution Tops Environmental Priority List

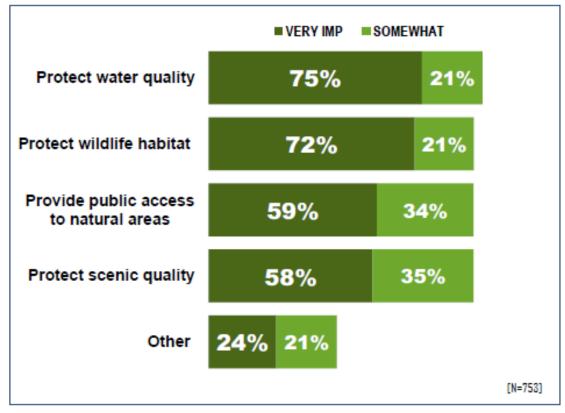
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Q16A Over the next 5 years, do you think the city should put More Emphasis or Less Emphasis on the following: Correcting and preventing water pollution Protecting and enhancing fish and wildlife habitat in local streams, lakes and wetlands Correcting and preventing problems arising from floods

Many Reasons to Preserve Open Space



There are several reasons to acquire and preserve open space. In your own opinion, how important are the following reasons to acquire and preserve open space: NOT AT ALL...NOT VERY...SOME...VERY

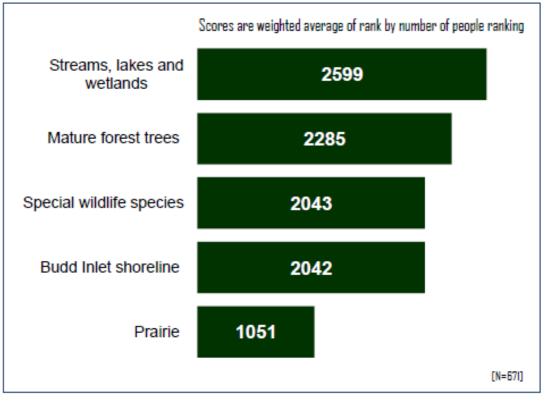
- > Protect wildlife habitat
- > Protect scenic quality
- > Protect water quality
- > Provide public access to natural areas
- > Other

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Riparian, Wetlands Ranked as "Most Important" Habitat Type



There are many kinds of habitat. The Parks Department has to prioritize to use its resources most effectively. If you had to rank them, how would you rank the importance of these types of wildlife habitat?

- Habitat near streams, lakes and wetlands
- Habitat with mature forest trees such a Douglas firs and Big-leaf maples
- Prairie habitat
- Budd Inlet shoreline habitat
- Habitat that supports important or special wildlife species found in Olympia



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City of Olympia Storm & Surface Water Utility

STORMWATER RUNOFF: PUBLIC ATTITUDES, AWARENESS AND BEHAVIOR

May 2009





Emerging Issues

New Challenges

- Climate Change and Sea Level Rise
- Increasing state and federal regulations

Improvements in Stormwater Management

- New stormwater treatment technologies
- Low Impact Development (LID)

Gains in Scientific Knowledge

- Further understanding of Puget Sound water quality problems
- Effectiveness of different restoration techniques for various local habitat conditions

Policy Questions

Storm and Surface Water Management Plan—Policy Questions May 13, 2014

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Storm and Surface Water Utility Mission:

We provide services that protect against flooding, improve water quality, and enhance habitat.

Overarching Utility Policy Questions

- What are the community's "level of service" expectations for the Utility's key responsibilities?
- Given limited City resources and various State and federal mandates, how does the Utility best
 prioritize the work it does (e.g., education, capital facilities, maintenance, applied research)?
- How do we minimize potential conflicts between stormwater regulations and community economic goals?
- What are the community's preferences for how stormwater rates are structured and calculated? Should the Utility offer stronger financial incentives?
- What should be the role and future of the Utility's public education and outreach programs? How do
 we link our work with other community efforts?

Flooding & Infrastructure Management

- How do we best track the condition of our extensive infrastructure and make timely, cost-effective investments?
- What is the best approach for ensuring on-going maintenance of stormwater systems on private property?
- How should we respond to the risks of sea level rise and downtown flooding?
- Should the Utility prioritize separating stormwater from the wastewater pipes in the areas (approximately 122,000 feet of pipe) where they are combined?

Water Quality

- Should the Utility develop a more comprehensive pollutant source control program that works with residents and businesses to eliminate and reduce pollutant-generating activities?
- What are the community's preferences for how low impact development (LID) will be implemented and maintained in the long-term?
- What is the expected extent of water quality retrofit of our streets that currently do not have stormwater treatment before discharging to a water body?
- How much effort should the Utility put into monitoring our local water quality and improvements to it?

Aquatic Habitat

- What is the Utility's role in overall natural resource management (e.g. forestry, marine waters, critical areas management, tree canopy, contaminated sediments)?
- How should we adequately fund aquatic habitat work?
- At what level should the habitat stewardship strategy be implemented?
- How do we best coordinate our work with regional and State efforts?



Goals and Objectives

Definitions

Goals: Broad, qualitative statements of what the Utility intends to achieve.

Objectives: Specific, measurable statements of what will be done to achieve the Goals within a particular timeframe.

Strategies: General approaches or methods for achieving Objectives and resolving specific issues. Strategies speak to the question "How will we go about accomplishing our Objectives?"

Draft Goals

Goal 1. The frequency and severity of flooding is reduced so that hazards are eliminated, except during major storm events.

Goal 2. Improve water quality citywide.

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Goal 3. Protect, enhance, and restore aquatic habitat functions provided by wetlands, streams, lakes, marine shoreline, and riparian areas citywide.

Goal 4. Built and natural infrastructure is sustainably protected, constructed, maintained, managed, and operated to ensure the stormwater system functions reliably.

Goal 5. Storm and Surface Water Utility finances are managed responsibly, and costs are recovered equitably.



Goal 1. The frequency and severity of flooding is reduced so that hazards are eliminated, except during major storm events.

Objective 1A. Improve the stormwater system in areas that are vulnerable to flooding.

Objective 1B. Prepare for emergency response during storm events.

Objective 1C. Mitigate the effects of urban stormwater runoff and implement low impact development techniques.

Objective 1D. Plan for the anticipated impacts of sea level rise.



Goal 2. Improve water quality citywide.

Objective 2A. Prioritize source control of pollution citywide.

Objective 2B. Retrofit stormwater treatment in areas of the City with little or no water quality treatment.

Objective 2C. Educate the community about water quality with emphasis on how they can be a part of the solution.

Objective 2D. Partner with other agencies, jurisdictions, and organizations in order to leverage water quality planning and project efforts.

Objective 2E. Comply with federal and state permits and regulations.



Goal 3. Protect, enhance, and restore aquatic habitat functions provided by wetlands, streams, lakes, marine shoreline, and riparian areas citywide.

Objective 3A. Protect intact aquatic habitat from degradation.

Objective 3B. Enhance existing impaired aquatic habitat.

Objective 3C. Restore degraded aquatic habitat to increase ecosystem function.

Objective 3D. Participate in and technically support City and regional environmental planning efforts and implementation projects.

Objective 3E. Increase community awareness of and engagement around aquatic habitat function and benefits through outreach and education.



Goal 4. Built and natural infrastructure is sustainably protected, constructed, maintained, managed, and operated to ensure the stormwater system functions reliably.

Objective 4A. Develop and implement an asset management program for the built infrastructure and natural environment.

Objective 4B. Design and construct infrastructure to ensure reliable, cost effective function.

Objective 4C. Further develop and implement the Utility's private and public stormwater system inspection programs.

Objective 4D. Continue to improve maintenance management, including preventative maintenance, repairs and replacements.

Objective 4E. Continue to improve employee training and safety programs.

Objective 4F. Plan for the anticipated impacts of sea level rise



Goal 5. Storm and Surface Water Utility finances are managed responsibly, and costs are recovered equitably.

Objective 5A. Set rates that reflect financial policies and recover the cost of providing services to each customer category.

Objective 5B. Manage Utility rates and connection fees consistent with the City's guiding principle of growth paying for growth.

Objective 5C. Use debt financing responsibly to support needed capital facility investments and "smooth" rate impacts.



What we've done

- Determined list of Policy Questions
- Revisited Utility's Mission, Vision and Values
- Discussed Policy Questions with UAC & LUEC

Next steps

- Incorporate UAC input tonight on Goals and Objectives
- Develop Public Involvement Strategy
 - Online Survey Return in May to UAC?
- Develop Plan Update Schedule
- Land Use & Environment Committee briefing April 21

Questions and Discussion



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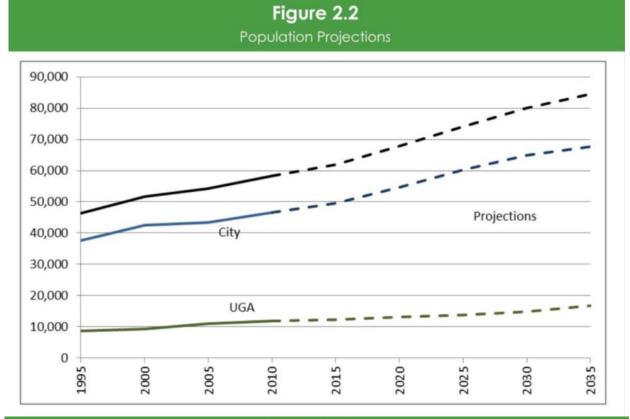
olympiawa.gov



Olympia Population

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| Table 2.2 Olympia and UGA Population Forecast | | | | | | |
|-------------------------------------------------------|--------|--------|--------|--------|--------|--|
| | 2015 | 2020 | 2025 | 2030 | 2035 | |
| City | 49,550 | 54,609 | 60,133 | 64,983 | 67,725 | |
| UGA | 12,273 | 13,237 | 13,896 | 14,962 | 16,671 | |
| Total | 61,823 | 67,846 | 74,029 | 79,945 | 84,396 | |

Storm and Surface Water Plan Update

Trails, Open Space & Maintenance Ranked as Highest Priority for New Projects

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