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City of Olympia Storm and Surface Water Plan

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.

- Strategy 1A1 Identify conveyance capacity problems (new initiative)
- Strategy 1A2 Identify when we will and when we won't correct flooding issues and priorities for doing so (limited abilities on private systems and private property)
- Strategy 1A3 Improve conditions in areas that are vulnerable to flooding
- Strategy 1A4 Require flow control with new development and retrofits with redevelopment when appropriate (Enforce the 2016 DDECM).
- Strategy 1A5 Develop basin plans (Evaluate regional detention and treatment facilities and support their use where determined feasible (e.g. Kaiser and 101))
- Strategy 1A6 Inflate historic precipitation data in anticipation of climate change.
- Strategy 1A7 Consider evaluating upgrades to private facilities (e.g. outlet structures) to improve performance or maintenance

Objective 1B. E Inspect and maintain existing stormwater systems.

- Strategy 1B1 Comply with the municipal stormwater permit requirements for inspection and maintenance and expand as staffing permits
- Strategy 1B2 Repair and replace deteriorating infrastructure
- Strategy 1B3 Monitor and maintain stormwater "hot spots"

Objective 1C. E| Be prepared for emergency response

- Strategy 1B1 Be proactive rather than reactive when dealing with flooding "hot spots" (existing initiative)
- Strategy 1B2 Develop and maintain SOPs for Capitol Lake, Yauger Park, Ken Lake, and Downtown tidal flooding (existing initiative to be expanded)
- Strategy 1B3 EOC and field exercise training

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Objective 1D. Encourage and implement low impact development techniques.

- Strategy 1C1 Provide public education
- Strategy 1C2 Enforce the 2016 DDECM.
- Strategy 1C3 Develop construction inspection capabilities (CP&D)
- Strategy 1C4 Develop post construction inspection and maintenance capabilities
- Strategy 1C5 Increase the use of permeable materials and environmentally-beneficial vegetation in construction projects
- Strategy 1C6 Map impervious/pervious surfaces
- Strategy 1C6 Evaluate program implementation annually during the first five years of implementation and pursue identified program improvements

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

- Strategy 1D1 Understand our vulnerabilities
- Strategy 1D2 Develop a plan with alternatives to mitigate or adapt to long term projected sea level rise impacts
- Strategy 1D3 Determine funding needs, and financing mechanisms and sources.
- Strategy 1D4
Use the best available science and the experiences of other communities in formulating plans for sea level rise.
- Strategy 1D5 Engage the community in a discussion of various sea level rise scenarios, how the City will respond to lessen the impact, and what the cost implications.
- Strategy 1D6 Partner with government entities and other key stakeholders, such as, the federal government, State of Washington, LOTT Clean Water Alliance, Port of Olympia, Squaxin Island Tribe, downtown property owners, businesses and residents, environmental groups, and other interested parties.
- Strategy 1D7
Construct initial short-term projects for managing coastal flooding (tide gates and outfall consolidation)
- Strategy 1D8 Consider separation of storm drainage to protect wastewater treatment plant (LOTT) and facilitate management of runoff in downtown.

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Goal 2. Improve water quality citywide.

Objective 2A. Prioritize pollution prevention citywide.

- Strategy 2A1 Perform public outreach/education. Educate the community about water quality with emphasis on how they can be a part of the solution. (homes and yards? expanded initiative?)
- Strategy 2A2 Focus on sediment control and management.
- Strategy 2A3 Inspect and enforce construction stormwater pollution prevention
- Strategy 2A4 Work with existing commercial businesses to identify pollution sources and best management practices (BMPs) needed to prevent discharge of pollutants of concern to the storm drainage system (MS4). (expanded initiative?, Coordinate with TCEH)
- Strategy 2A5 Maintain and improve spill response (existing)
- Strategy 2A6 Develop a street sweeping program focused on water quality (routes and monitoring program). (new initiative, initially grant funded)
- Strategy 2A7 Require source control plans with new development (existing) and enforce them (new initiative)
- Strategy 2A8 Develop and implement an integrated pest management plan in coordination with other City departments

Objective 2B. E Inspect and maintain existing stormwater systems.

- Strategy 2B1 Focus on sediment control and management.
- Strategy 2B2 Comply with the municipal stormwater permit requirements and expand as staffing permits
- Strategy 2B3 Repair and replace deteriorating infrastructure

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

- Strategy 2B1 Map and evaluate sub-basins city-wide to determine level of water quality treatment, and priority and feasibility for retrofit. Focus should be on LID. (new initiative, grant funding possible)
- Strategy 2B2 Retrofit existing developed land focusing on untreated, high-traffic, commercial zones draining to Budd Inlet. Focus should be on LID. (existing initiative, grant funding)
- Strategy 2B3 Encourage water quality retrofits of private stormwater systems where appropriate. Develop rate and GFC incentives.
- Strategy 2B4 In coordination with the LOTT Clean Water Alliance, evaluate options for providing higher levels of water quality treatment, particularly in coordination with consolidation of the stormwater conveyance system associated with sea level rise.

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

- Strategy 2E1 Update annually Olympia's Stormwater Management Plan to document ongoing compliance with the Western Washington Phase II Municipal Stormwater Permit.
- Strategy 2E2 Provide technical assistance to other city departments to ensure ongoing permit compliance.
- Strategy 2E3 Participate in development of TMDL plans and implement resulting required actions.

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.

- Strategy 3A1 Establish and monitor aquatic habitat health indicators based on the best scientific information available and use to plan management strategies
- Strategy 3A2 Promote voluntary habitat stewardship efforts across the landscape (public and private ownership). Target residents with the greatest impact on habitat (streamside/shoreline/ Public Education and outreach
- Strategy 3A3 Acquire important habitat areas or easements (in partnership with other departments/organizations)
- Strategy 3A4 Provide technical support for overall city compliance with aquatic permitting requirements (CWA 401/404, HPAs, ESA etc...)
- Strategy 3A5 Influence city regulations that protect aquatic resources (CAO, SMP, etc...)
- Strategy 3A6 Develop and implement vegetation and habitat management plans for City-owned properties.

Objective 3B. Enhance existing impaired aquatic habitat.

- Strategy 3B1 Manage vegetation in riparian areas in order to improve habitat functions and support native wildlife and plant species.
- Strategy 3B2 Promote voluntary habitat stewardship efforts across the landscape (public and private ownership).
- Strategy 3B3 Develop and implement vegetation and habitat management plans for City-owned properties
Public Education and outreach (below)

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

- Strategy 3C1 Revegetate riparian areas with appropriate native woody species where native woody vegetation is lacking.
- Strategy 3C2 Partner with other city departments and organizations to support Budd Inlet shoreline restoration.
- Strategy 3C3 Develop and implement vegetation and habitat management plans for City-owned properties
Public Education and outreach (below)

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

- Strategy 3D1 Support partners and community efforts to protect, steward, and restore aquatic, riparian, and associated terrestrial habitats City-wide.
- Strategy 3D2 Identify, prioritize, and implement aquatic habitat protection and enhancement opportunities across the City. (HS Strategy + implementation)
- Strategy 3D3 Apply a watershed-based approach to aquatic habitat planning and project implementation.
- Strategy 3D4 Participate in Alliance for a Healthy South Sound to support Puget Sound Recovery (Others?)

Objective 3E. Support regional and tribal efforts addressing Budd Inlet shoreline habitat condition and restoration projects.

- Strategy 3E1 Partner with other city departments and local organizations to plan and implement shoreline enhancement and restoration projects.

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

- Strategy 3F1 Provide outreach and education to the community around aquatic habitat and function (wetlands, streams, marine shoreline, lakes, and buffers).
- Strategy 3F2 Support volunteer stewardship efforts to enhance aquatic and associated habitat.

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

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

- Strategy 4A1 Maintain updated mapping/geodatabase
- Strategy 4A2 Maintain PACP pipe condition rating program (Consider bringing in house).
- Strategy 4A3 Maintain catch basin inspection and cleaning program
- Strategy 4A4 Maintain and expand the preventative maintenance program
- Strategy 4A5
- Strategy 4A6 In coordination with Thurston County Environmental Health, continue to monitor the health and water quality of City streams and lakes (is this included in 3A1? Does it belong here?)

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

- Strategy 4B1 Consider life cycle costs and maintenance feasibility in design phase.
- Strategy 4B2 Require new development to construct stormwater infrastructure in ways that meet the community development, environmental protection, and resource protection goals of the Comprehensive Plan, and that are consistent with adopted standards and plans.

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

- Strategy 4C1 Maintain updated mapping/geodatabase
- Strategy 4C2 Comply with municipal permit requirements (at a minimum and expand as staffing permits)
- Strategy 4C3 Develop SOPs for inspections and corrections
- Strategy 4C4 Enhance public outreach and education for stormwater facility maintenance
- Strategy 4C5 Develop enforcement capabilities (facilities to be maintained for design purpose) in OMC
- Strategy 4C6 Develop level of service standards for stormwater facilities
- Strategy 4C7 Monitor resources through work order system and identify any additional needs
- Strategy 4C8 Develop a preventative pipe, ditch, and pond inspection program
- Strategy 4C9 Inspect facilities at Ecology recommended frequencies rather than NPDES annual minimum
- Strategy 4C10 Inventory and develop inspection programs for City-owned utility infrastructure and identify needed City maintenance resources.
Develop and implement applicable regulations. (new initiative)

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

- Strategy 4D1 Maintain updated mapping/geodatabase
- Strategy 4D2 Comply with NPDES permit requirements
- Strategy 4D3 Develop SOPs for inspections and corrections
- Strategy 4D4 Enhance public outreach and education for stormwater facility maintenance
- Strategy 4D5 Develop enforcement capabilities (facilities to be maintained for design purpose) in OMC
- Strategy 4D6 Develop a preventative pipe, ditch, and pond maintenance program

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

- Strategy 4E1 Keep current with training as new technologies and techniques come into use.
- Strategy 4E2 Update emergency response processes and procedures regularly.

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

- Strategy 4F1 Develop and implement a sea level rise response plan
- Strategy 4F2 Incorporate sea level rise planning into the design of public and private infrastructure where needed
- Strategy 4F3 Use the best available science and the experiences of other communities in formulating plans for sea level rise
- Strategy 4F4 Partner with government entities and key stakeholders
- Strategy 4F5 Engage the community in a discussion of various sea level rise scenarios, how the City will respond to lessen the impact, and what the costs would be
- Strategy 4F6 Implement recommendation of the adaptation plan

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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.

Strategy 5A1 Further develop rate structure based on..... (base rate, impervious coverage, trips, etc.)

Strategy 5A2 Develop a rate structure that reflects impacts and incentivizes stormwater retrofit.

Strategy 5A3 Coordinate regular rate studies with the City's other water resources utilities, so that the full impact of utility rate increases on customers is considered.

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

Strategy 5B1 Review rates regularly to ensure that they accurately and equitably distribute costs based on impacts

Strategy 5B2 Review General Facilities Charges regularly to ensure that they accurately and equitably distribute system costs to new development and are adjusted for inflation

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

Strategy 5C1 Continue the capital funding strategy that utilizes existing resources from reserves and general facility charges first before relying upon debt financing.

Strategy 5C2 Pursue grants and state low-interest loans when available.