Stormwater Parks

Regional Project Evaluation Committee
March 24, 2023

Stormwater Parks

Multiple benefits of stormwater parks

Examples

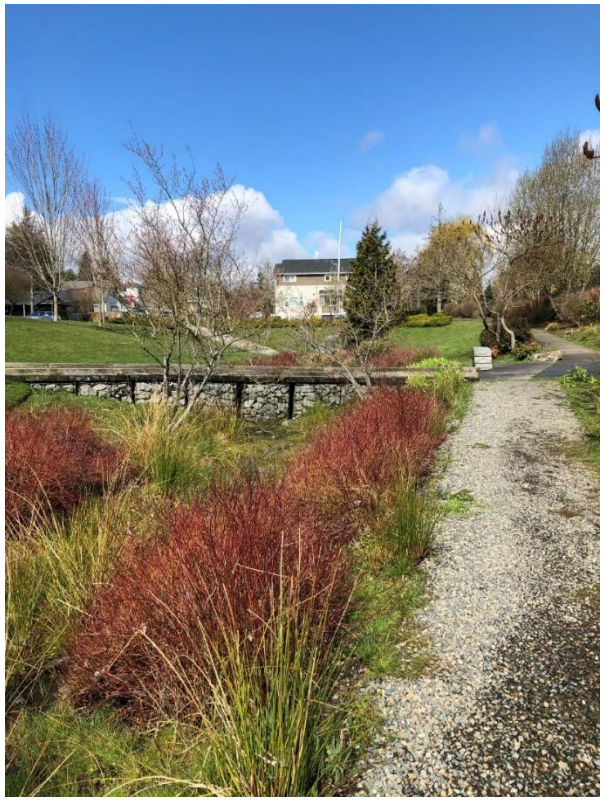
Lessons learned

Guidance on planning stormwater parks

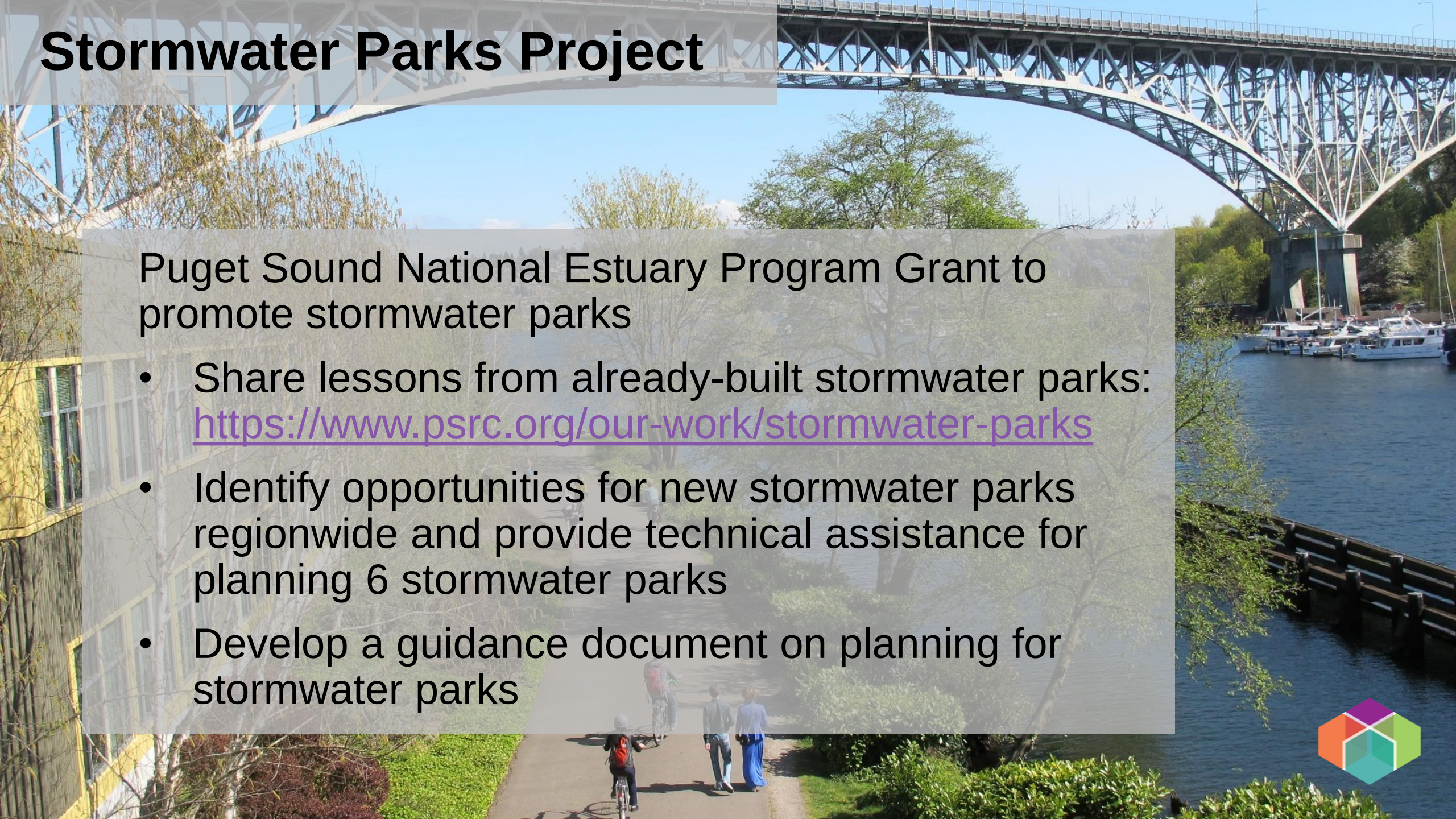
Stormwater Parks

Stormwater parks can have multiple benefits:

- Provide recreation
- Treat, store, and infiltrate stormwater from hundreds of acres
- Address equity when built areas underserved by parks
- Support Tribal treaty rights
- Add natural features and wildlife habitat to an already built park
- Be funded by multiple sources



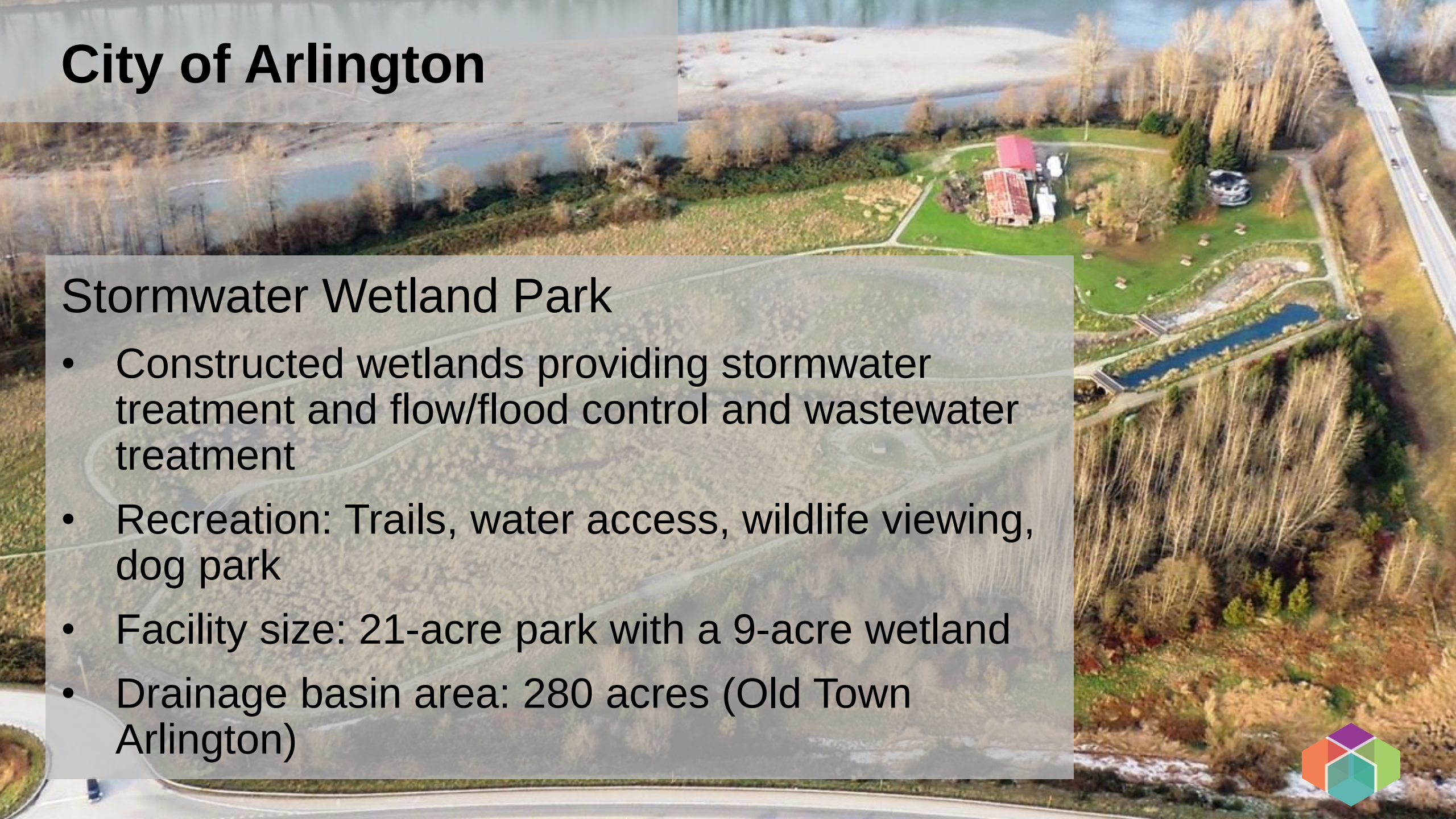
Stormwater Parks Project



Puget Sound National Estuary Program Grant to promote stormwater parks

- Share lessons from already-built stormwater parks: https://www.psrc.org/our-work/stormwater-parks
- Identify opportunities for new stormwater parks regionwide and provide technical assistance for planning 6 stormwater parks
- Develop a guidance document on planning for stormwater parks

City of Arlington



Stormwater Wetland Park

- Constructed wetlands providing stormwater treatment and flow/flood control and wastewater treatment
- Recreation: Trails, water access, wildlife viewing, dog park
- Facility size: 21-acre park with a 9-acre wetland
- Drainage basin area: 280 acres (Old Town Arlington)

City of Bellevue

Lakemont Community Park

- Stormwater detention vault and sand filter treatment basins within a larger community park
- Recreation: play area, trails, picnic shelters, tennis courts and more
- Facility size: 5 acres
- Drainage basin area: 215 acres

Kitsap County

Manchester Stormwater Park

- Small park with natural and engineered stormwater infrastructure that provides treatment and flood control
- Recreation: community gathering space/lawn, walking paths
- Facility size: 0.5 acres
- Drainage basin area: 100 acres

City of Poulsbo/Quadrant Homes

Mountain Aire Stormwater Pond and Trails

- Stormwater pond that provides flow control and treatment
- Recreation: trails, benches, wildlife viewing
- Facility size: 2 acres
- Drainage basin area: 39 acres

City of Seattle

Madison Valley Stormwater Improvements

- Two park sites that provide flow/flood control, part of combined sewer system
- Recreation: trails, gathering spaces, play areas
- Facility size: 0.84 acre

City of Shoreline

Cromwell Park

- Constructed wetland added to an existing park during major renovation, provides treatment and flow/flood control
- Recreation: trails, wildlife viewing
- Facility size: 1.33 acres in a 9-acre park
- Drainage basin area: 109 acres

City of Tacoma/Metro Parks Tacoma

Point Defiance Stormwater Treatment Facility

- Provides stormwater treatment and visual interest in a park
- Recreation: Walking paths
- Facility size: 5,500 SF
- Drainage basin area: 754 acres

City of Portland

Tanner Springs Park

- Constructed wetland, cistern, and bioswales provide treatment
- Recreation: paths, art, waterscapes
- Facility size: .92 park
- Drainage basin area: 109 acres

Photo: GreenWork PC

Artful Stormwater Parks

Stormwater Park (Qunli, China)

Water Circle (Normal, Illinois)

Lessons Learned

- Can achieve **multiple benefits** when well sited and designed
- Find opportunities through working with **other departments** and **partners**
- Early **public engagement** leads to greater acceptance
- Having a **project champion and political support** is needed
- Consider **maintenance needs** in project design
- Factor **climate change** impacts into design
- **Vary greatly** in size, function, and cost; **many opportunities** to develop stormwater parks throughout the region

Stormwater Parks Criteria

Criteria for Selecting Sites for Technical Assistance

- Need for equitable access to open space
- Salmon and water quality benefit
- Pollutant loading
- Community engagement and support
- Land ownership

Stormwater Parks Technical Assistance

Recipients:

- Kirkland
- Kitsap County
- Lynnwood
- Marysville
- Puyallup
- Woodinville

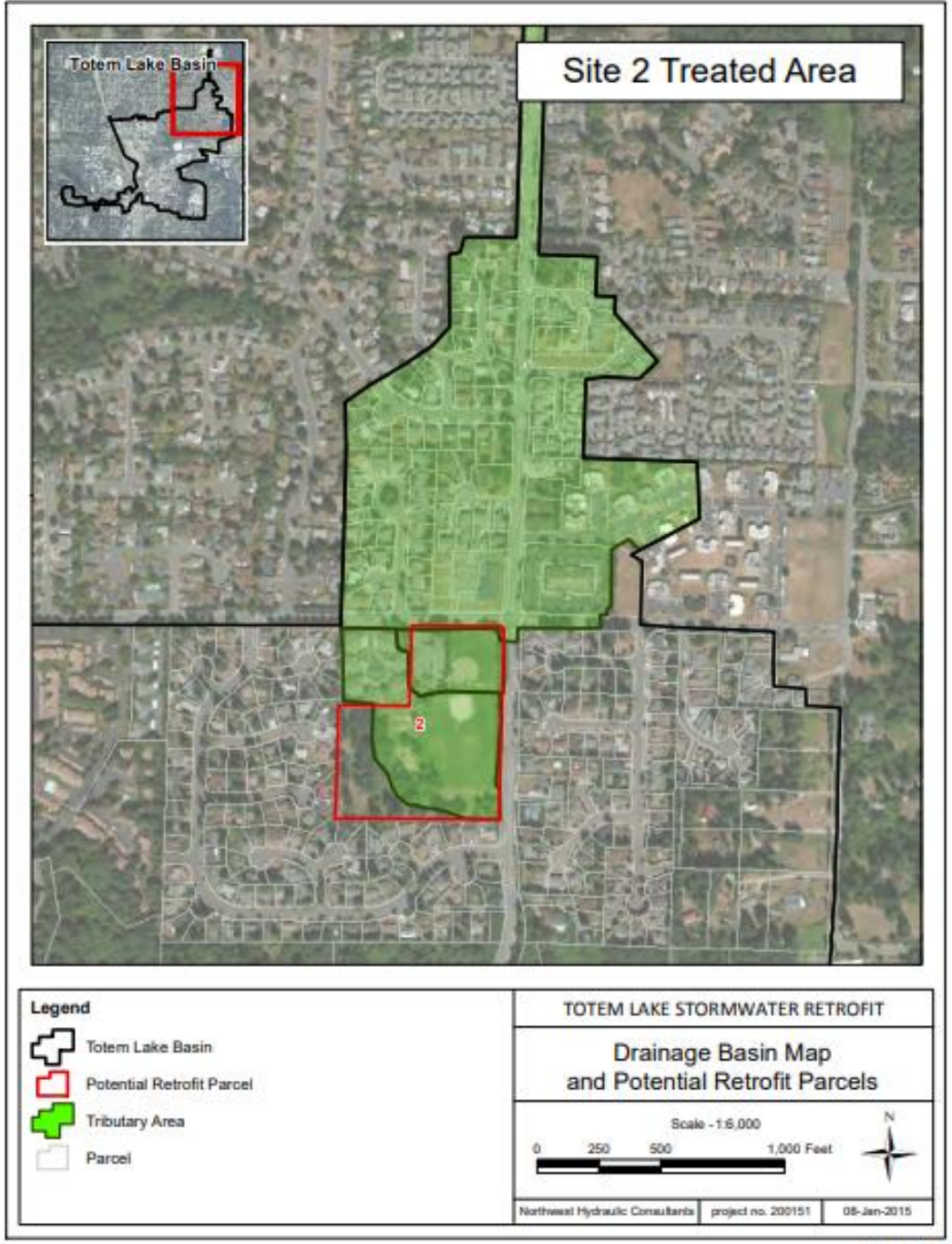
Kirkland Parks and Stormwater Project

Goals:

- Stormwater opportunities at each park
- Parks opportunities at each stormwater property

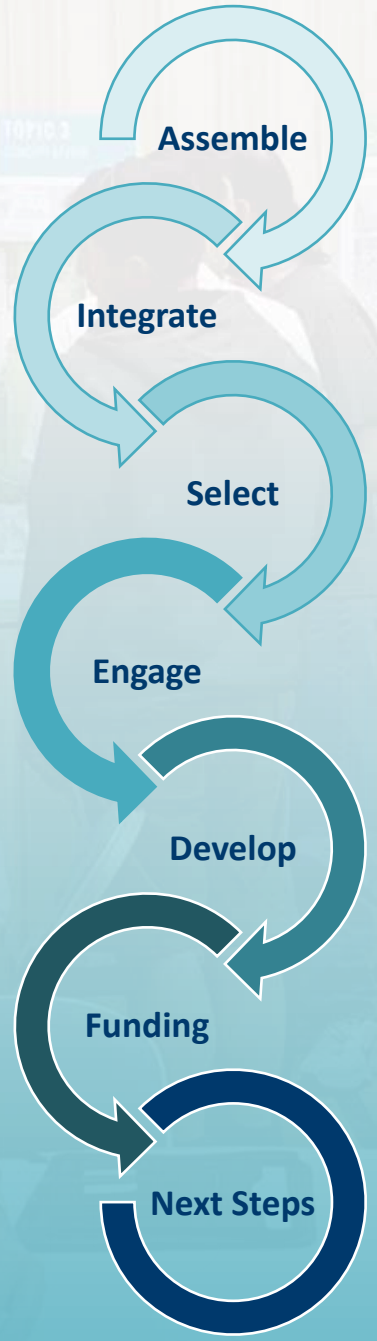
Steps:

1. Analyze opportunities
2. Review in the field
3. Develop conceptual designs for top projects that are **both** Parks and Stormwater priorities
4. Investigate funding



SITE 2

Planning Stormwater Parks



Assemble interdisciplinary project team

Integrate equity

Select site

Engage the community

Develop alternatives and designs

Funding sources

Next steps

Planning Stormwater Parks

Recreation Options

Type/Photo	Space Needs	Maintenance Considerations	Cost Level	Other Considerations
Trails 	Medium	Medium	$$	Can be linked to existing community trail networks.
Playground 	Medium	Medium	$$	Provide a variety of equipment to meet a variety of user needs.

Stormwater Solution Options

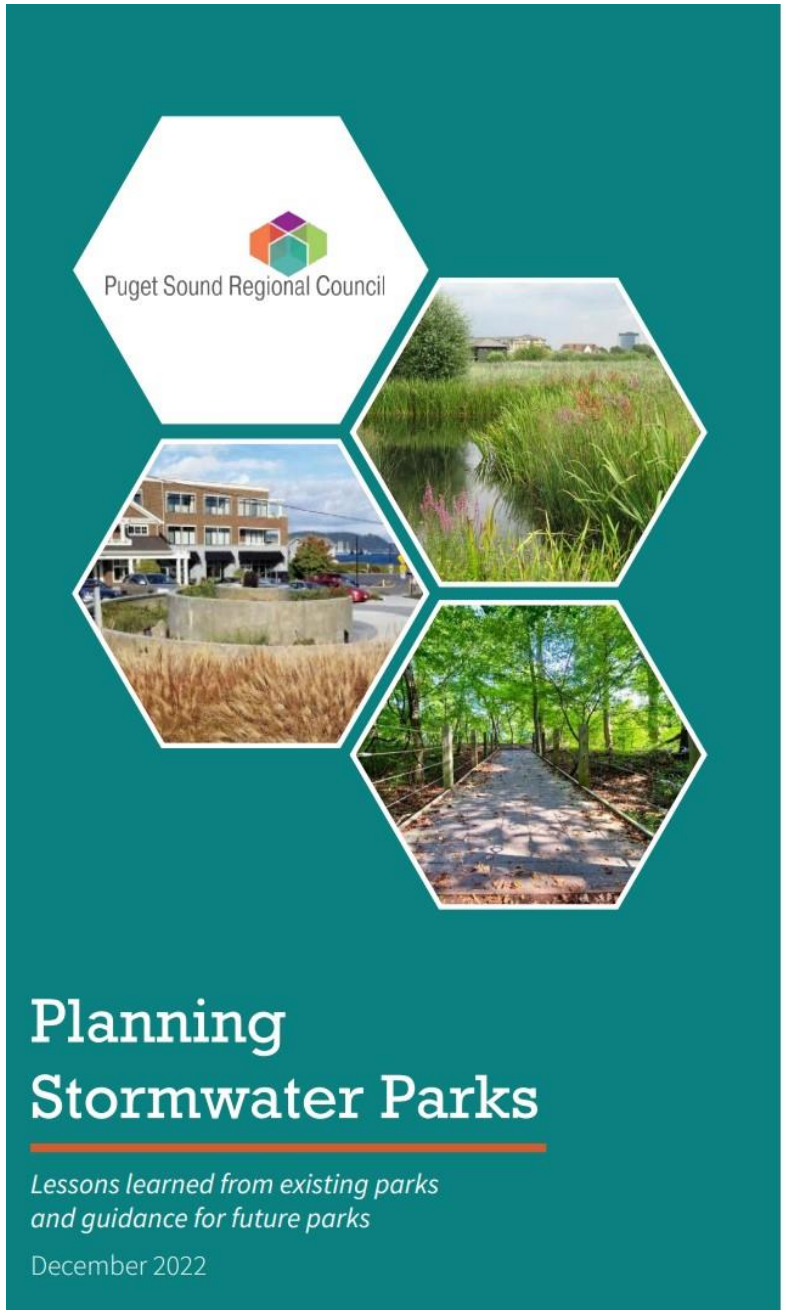
Bioretention Cells 	Medium	Medium	$$	Enhanced water quality treatment Phosphorus treatment	Landscaped cells that are designed to capture and treat stormwater runoff.
Vaults 	High	Low	$$$	Flow control Basic water quality (optional)	Underground structures that are designed for stormwater detention and retention, often used in sites where there is not enough surface space on the site to cost-effectively construct stormwater controls.

Integrating Stormwater Solutions into Comprehensive Plans

Guidance on stormwater and related Puget Sound recovery solutions by comprehensive plan element

- Model policies
- Examples
- Resources

Available in June at: www.psrc.org/our-work/puget-sound-recovery



Planning Stormwater Parks:

www.psrc.org/our-work/stormwater-parks

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