City of Shoreline Surface Water & Environmental Services



Surface Water & Environmental Services Mission

To manage, operate, and maintain the City's surface water infrastructure to promote flood protection, comply with regulatory requirements, and to protect/enhance water quality and habitat through the practice and promotion of sound environmental stewardship.



Surface Water & Environmental Services Core Services

- Flood Protection: Keep water from impacting people and businesses
- Water Quality Protection: Keep people and businesses from impacting water
- Habitat Enhancement: Help people from impacting what lives in and around water and encourage stewardship



Flood Protection



Property of Shoreline Historical Museum

Goal: Keep Water From Impacting People and Businesses



Water Quality Protection



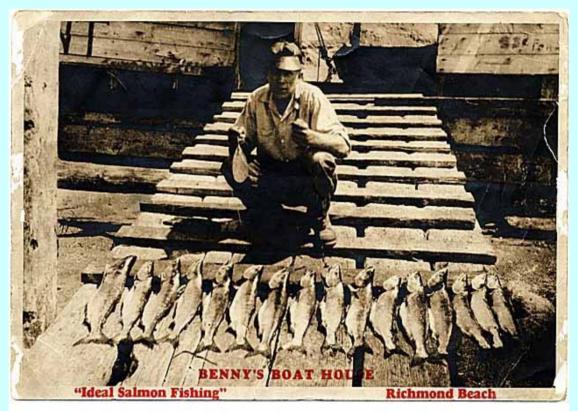
Property of Shoreline Historical Museum

Goal: Keep People and Businesses From Impacting Water

SHO

RELINE

Habitat Enhancement



Property of Shoreline Historical Museum

Goal: Help People From Impacting What Lives in and Around Water and Encourage Stewardship



2007 Surface Water Operating Budget:

- People and Programmatic Activities = \$715,714
 - (4 full time staff + 2 part-time Interns)
- 2007 Small Works Capital Project =
- 2007-2012 Major Capital Projects =
- Funding Sources:
 - 100% Funded by Surface Water Utility Fees



\$169,000

\$17.4 M



Manage the Operation & Maintenance of the Stormwater Infrastructure



Stormwater Infrastructure Maintained:

- Catch basins: 7,403
- Manholes: 635
- Drainage pipes: 109 miles
- Open water courses: 29 miles
- Stormwater Lift Stations: 5



Stormwater Infrastructure Maintained:

- Dams: 5
- Stormwater Flow Control/Water Quality Sites <u>Inspected</u> <u>& Maintained</u>:
 - Regional Sites = 30
 - Residential Sites = 64
- Commercial Stormwater Flow Control/Water Quality Sites <u>Inspected</u>: 240



- Track the Annual Maintenance of the Stormwater Infrastructure
- Design & Implement Repairs to Drainage Infrastructure (Surface Water Small Works Capital Projects)
- Respond to Customers with Drainage, Flooding, or Spill Issues

Flooding and Drainage Service Requests:

Year	2004	2005	2006	Percent Change Between 2004 & 2006
Flooding	186	29	14	92.5% Decrease
Drainage	171	144	228	33.3% Increase
Total Requests	357	173	242	32.2% Decrease



 Design & Implement Stream Restorations



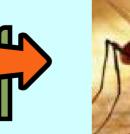


 Monitor Water Quality in Hidden Lake, Echo Lake & All City Streams



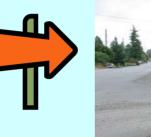


 Point of contact for West Nile Virus Issues



10th Avenue NE/NE
175th Street

Cost: \$50,000







 17th Place Culvert Replacement

Cost: \$150,000





Carlyle Hall
Drainage
Improvement

Cost: \$49,000







Ballinger Creek
Sediment Removal

Cost: \$20,000

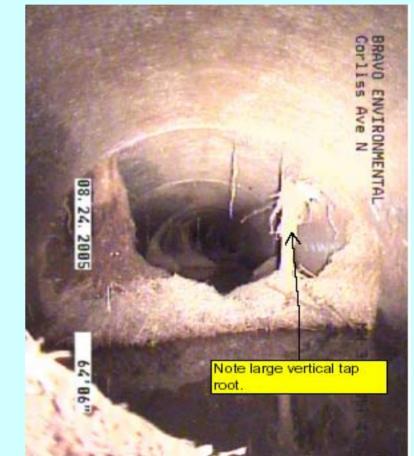






Pipe Maintenance
Downstream of
Ronald Bog

Cost: \$7,000





Water Quality Protection

Ways We Keep Pollutants out of Water Bodies:

- Street Sweeping

DrainageSystemCleaning



Installing Catch
Basin Filtration
Systems



OVERFLOW



Habitat Enhancement Projects Completed

 Ballinger Creek Restoration







RELINE

SHO

Regional Watershed Activities

The City of Shoreline actively participates in the following regional watershed activities:

- WRIA 8 Support Regional salmon recovery plan
- Regional Roads Maintenance Forum Regional best management practices for road maintenance activities to protect endangered species
- Lake Ballinger Watershed Working with the cities of Edmonds, Mountlake Terrace, and Lynnwood on basin-wide water quality and quantity issues
- Lake Forest Park Brookside Creek stormwater outfall reconfiguration (MacAleer Tributary)
- Thornton Creek Watershed Oversight Committee





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