



THE CITY OF SHORELINE Surface Water Utility manages the public stormwater drainage system to reduce flooding, comply with environmental regulations, and prevent pollution of our streams, lakes, and Puget Sound. Each year, we work hard to reduce flooding and environmental risks from stormwater drainage by inspecting and cleaning pipes, storm drains, streets, and ditches. We install drainage improvement projects and innovative stormwater treatment solutions like rain gardens and filter vaults. We also promote activities that create cleaner, healthier natural water bodies in the community.

This report provides a review of the work we accomplished in 2019 and an update on our 2020 budget, rates, and projects. It also provides ways that you can get involved to help us protect clean water habitat in our streams, lakes, and Puget Sound. The 2018 Surface Water Master Plan guides our programs and projects over the next decade; it calls for a “proactive” management strategy and set level of service targets for each one of our programs. This report highlights several of these measures for each service area. Between COVID-19 closures and staff turnover, the 2019 report is reaching homes later than usual. You can expect the next annual report to arrive in March 2021. To learn more about the Surface Water Utility, please visit our website at: shorelinewa.gov/surfacewater.

**139 MILES OF
STORMWATER PIPES**

7,745 STORM DRAINS

**17 STORMWATER
PONDS**

**48,506 SQUARE FEET
OF RAIN GARDENS**



SHORELINE IS WASHINGTON'S FIRST SALMON-SAFE CITY

The City of Shoreline was recognized as the first Salmon-Safe Certified City in Washington State on Earth Day, 2019. The Salmon-Safe Certification distinguishes Shoreline as a regional leader in preventing water pollution and improving the health of the Puget Sound, both of which are needed to restore salmon and orca populations and maintain our quality of life. These actions include further reducing stormwater pollutants and pesticide use, improving erosion control, conserving water, and installing rain gardens and other “green infrastructure” to keep stormwater runoff clean. For more information, visit: www.shorelinewa.gov/our-city/salmon-safe.

WHAT IS STORMWATER?

When rain falls on hard surfaces in our city like streets, parking lots, rooftops, or driveways, it runs off into a system of drains, pipes, and other features. This runoff is called ‘stormwater’.

Stormwater is not treated, but empties directly into local streams, lakes, and Puget Sound.

PHOTOS: Healthy streams, lakes, and Puget Sound support our region's wildlife, economy, and our own quality of life. (From top left) Turtle swimming in Twin Ponds. Children playing at Echo Lake. Recreating at Richmond Beach. Blue Heron in Puget Sound.





SURFACE WATER UTILITY

MANAGING SURFACE WATER IMPACTS

We work to manage the impact of stormwater on public health, safety, and the environment. Annual inspection and maintenance programs, such as street sweeping, pipe repair, and cleaning storm drains, ensure our system prevents flooding and pollution from stormwater. We also monitor the water quality in our streams, lakes, and swimming beaches to ensure these natural water bodies are safe for wildlife and recreation.



1,486

MAINTENANCE WORK ORDERS on utility assets completed.



770

TONS OF DEBRIS removed by street sweeping.



940

STORM DRAINS cleaned to remove dirt, debris, and trash.

92%

completed as scheduled

\$103.75

per lane mile swept

100%

within required schedule

We inspect and maintain our public stormwater system to ensure it is safe and effective at preventing flooding and pollution. Ditch maintenance helps prevent flooding and helps filter pollutants, like oil, trash, and heavy metals. One third of all City ditches are inspected annually to check for maintenance needs.



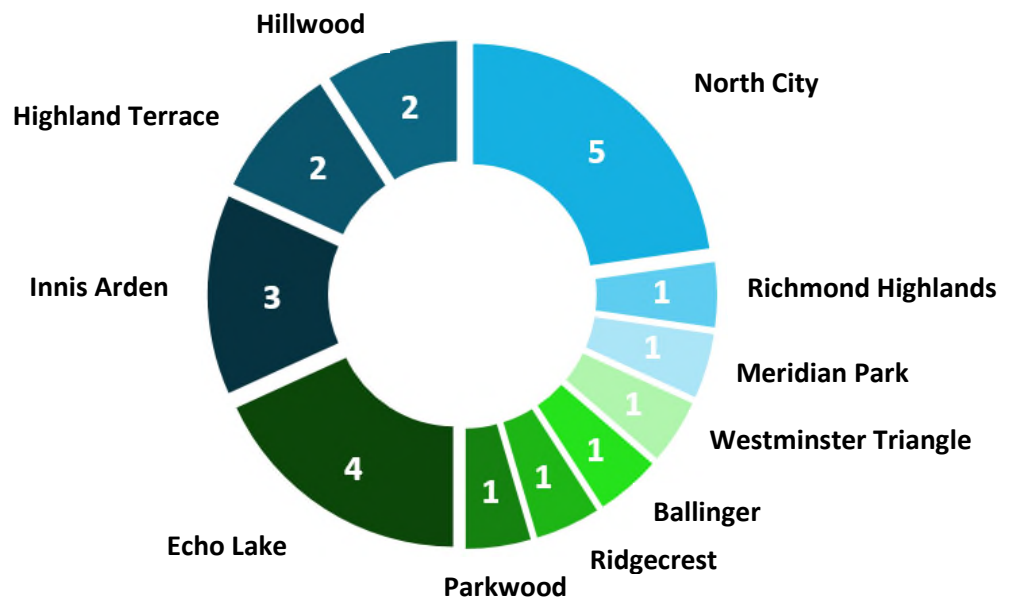
We received 189 service requests from residents for drainage issues, flooding, or water quality. 98% were responded to.

PROVIDING CONSISTENT AND RELIABLE SERVICE

We are committed to providing consistent, equitable service to Shoreline residents at a reasonable cost, within current rates and budget. Each year, the Utility responds to service requests from residents for drainage, flooding, and water quality issues. We repair and improve our stormwater system using input from residents around the city. Project locations are also chosen based on an analysis of our stormwater system in each area of the city, known as basin plans.



22 SMALL REPAIRS to the City storm water system across Shoreline neighborhoods completed in 2019.





2019 ANNUAL REPORT

ENGAGING THE COMMUNITY

Whether attending community events or reaching out via citywide mailings, web, and digital media, we are committed to engage in transparent public communications and outreach. We work with residents, businesses, and school groups to help improve water quality for wildlife and recreation. Through our Adopt A Drain, Storm Drain Marking, and Soak It Up Rebate programs, we offer opportunities for residents to get involved in protecting water quality.



Staff provided interactive education presentations and displays for over 1,100 residents at 7 community events in 2019, including neighborhood meetings, Northwest SolarFest and Earth Day Every Day.



8

RAIN GARDEN and native landscaping rebates issued.



49

OUTREACH MESSAGES published in print, web, and social media.



39

VOLUNTEERS ENGAGED in Adopt A Drain and Storm Drain Marking programs.

6,700

square feet treated

87%

of households reached

146

drains maintained or marked



In 2019, the Utility inspected over 5,700 assets to meet state law requirements and ensure our stormwater system is effective at reducing environmental risks such as flooding and pollution, helping to protect clean water for wildlife and recreation.

PROTECTING THE ENVIRONMENT

Each year, we work hard to protect and improve the water quality of the City's streams and lakes. State law requires the Surface Water Utility to reduce the environmental impact of stormwater runoff. By inspecting public and private stormwater systems, performing regular maintenance, responding to spills, and providing public education opportunities, we work to meet these requirements and protect the health of our natural waterbodies for wildlife and recreation.



68

PRIVATE FACILITIES inspected for pollution or maintenance issues.



39

SPILLS and illicit discharges responded to and cleaned up.



5,771

CITY STORMWATER ASSETS inspected.

99%

of facilities in compliance

30

calls to City spill hotline

100%

within required schedule.

IMPROVING OUR INFRASTRUCTURE

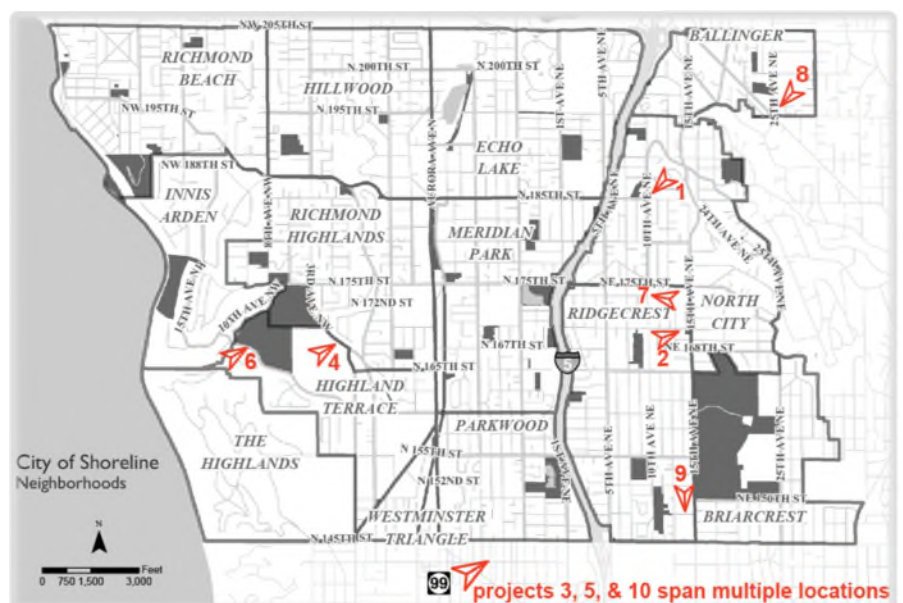
The **Surface Water Utility** is continuously prioritizing, planning, and implementing construction projects to maintain and improve the City's surface water systems. Larger projects are part of the City's Capital Improvement Plan and are delivered by the Public Works Engineering Division. For more information on specific projects, see shoreline.gov/projects. Major ongoing and upcoming Surface Water Utility projects are summarized below.

CONSTRUCTION PROJECTS

Project title	Description	Design	Construction
1. Pump Station 26	Project to replace aging pump station with new pumps and regional flow control facility.	2019-2020	2021
2. Pump Station 30	Project to replace aging pump station with new pumps and other improvements.	2019-2022	2023
3. Pump Station Misc Improvements	Project to make site and online data gathering improvements to six pump stations.	2019-2022	2023
4. M-1 Dam Access Road Rehabilitation Project	Repair of the maintenance access road upstream of the dam.	2019-2020	2020
5. 2020 CIPP Pipe Lining Project	Rehabilitation of pipes around the city utilizing trenchless pipe repair methods.	2019-2020	2020
6. Hidden Lake Dam Removal	Project to remove Hidden Lake and dam, restore Boeing Creek, and replace the NW Innis Arden Way Boeing Creek culvert.	2016-2021	2022-2024
7. 10 th Ave NE Stormwater Improvements	Project to improve roadside drainage ditches using infiltration facilities.	2019-2022	2023
8. 25 th Avenue NE Flood Reduction and NE 195 th Street Culvert Replacement Design	Design of project to reduce localized flooding along roadway.	2016-2020	Not scheduled
9. NE 148 th Street Infiltration Facilities	Proposed infiltration facilities to improve local drainage and protect water quality in Little Creek.	2019-2020	2021
10. Surface Water Small Projects and Pipe Repair	Installation of small surface water projects and pipe repairs throughout the City.	2019-2021	2021-2022

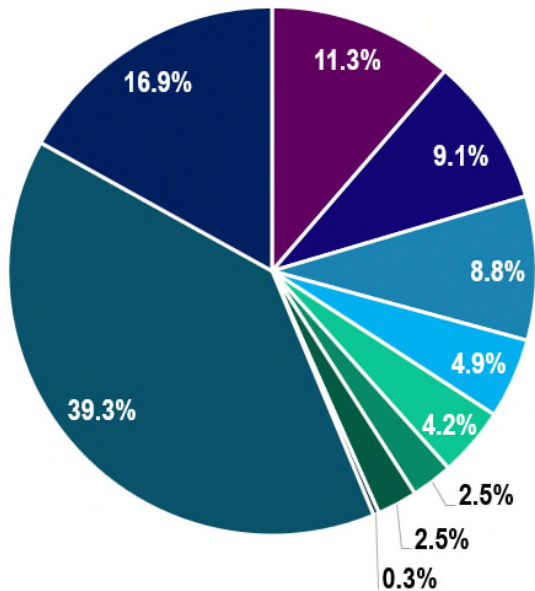
STUDIES

- **System Capacity Modeling Study.** Study to model the city's surface water system capacity and prioritize basins for improvements. 2019 - 2020.
- **Climate Impacts and Resiliency Study.** Study to analyze the impact of climate change on City infrastructure and recommended improvements. 2019 - 2020.



PLANNING FOR OUR FUTURE

2020 BUDGET



SURFACE WATER MANAGEMENT FEES

Surface water management fees (SWM Fees) are collected annually from properties in Shoreline to pay for the Utility's services. SWM Fees are set as part of the City's annual budget each November and are collected by King County along with your property taxes in two installments, on April 30 and October 31 of each year. The rates for 2020 are listed below and are based on the property type and/or the amount of hard surfaces on each property.

2020 SWM FEE RATES

CATEGORY	% HARD SURFACE	SWM FEE	UNIT
Single-family home	N/A	\$271.20	Per Parcel
Very Light	0% – 10%	\$271.20	Per Parcel
Light	> 10% – 20%	\$629.88	Per Acre
Moderate	> 20% - 45%	\$1,301.27	Per Acre
Moderately Heavy	> 45% - 65%	\$2,523.79	Per Acre
Heavy	>65%-85%	\$3,197.39	Per Acre
Very Heavy	> 85% - 100%	\$4,188.10	Per Acre

- CAPITAL PROJECTS: \$3,949,887**
 Funding to design and build stormwater system improvement projects.
- PROGRAM STAFF: \$1,701,088**
 Costs of salaries and benefits for all Surface Water Utility staff.
- REPAIRS AND MAINTENANCE: \$1,138,849**
 On-call and annual maintenance and repair work performed by Utility staff or contractors.
- DEBT SERVICE: \$912,171**
 Payments on bonds collected to fund capital improvement projects.
- PROGRAM MANAGEMENT: \$885,039**
 Administrative costs, tools, supplies, training, taxes, rentals, etc.
- CITY OVERHEAD: \$492,910**
 Overhead for City support staff, such as fleet and facilities, legal, information technology, etc.
- PROFESSIONAL SERVICES: \$426,736**
 Consulting support services for plans and studies, program development, and water quality monitoring.
- INTERGOVERNMENTAL SERVICES: \$254,354**
 Services provided by King County and Washington State, such as laboratory and billing services.
- FLEET AND EQUIPMENT: \$247,333**
 Vehicles and equipment needed for Surface Water Utility projects, maintenance and programs.
- EDUCATION AND OUTREACH: \$34,625**
 Includes funding for informational mailings, rain garden rebates, and public education campaigns.

PROTECTING OUR WATERS



WILDLIFE LIKE SALMON AND ORCA depend on having clean water in lakes, streams, and Puget Sound. When it rains, rainwater carries pollution from our roads, driveways, parking lots, and lawns into storm drains. This polluted water is not treated and flows directly into Shoreline's nearby lakes and streams, and Puget Sound.

Fortunately, because this source of pollution in our local waters is caused by everyday activities, there are many simple steps we can start taking to reduce pollution and keep our waters clean.



TAKE ACTION FOR CLEAN WATER

PRACTICE NATURAL YARD CARE. Natural Yard Care practices, like using compost and mulch and limiting garden chemicals, help protect our community and wildlife. Excess garden chemicals are dangerous for human and pet health, and ultimately flow into streams, lakes, and Puget Sound, where they endanger wildlife. Learn more at www.shorelinewa.gov/naturalyardcare

PET WASTE: BAG IT & THROW IT IN THE TRASH, EVEN IN YOUR OWN BACKYARD. Dog poop is raw sewage: it can spread harmful germs like E. coli and Salmonella. When pet waste is left on the ground, it can lead to high bacteria levels in streams and lakes, leading to beach closures. Pick up pet waste every time, even in your own backyard. Scoop it, bag it, and put it in the trash.

BUILD A RAIN GARDEN AND PLANT NATIVE. Create a Pacific Northwest garden – build a rain garden and plant native! These gardens slow, filter, and return rain to groundwater, naturally. Check out the City's Soak It Up Rebate program for more information: www.shorelinewa.gov/soakitup

USE A COMMERCIAL CAR WASH. Washing your car in the street or driveway causes soapy, dirty water to enter streams, lakes and Puget Sound. Use a commercial car wash instead, where the water is filtered and recycled!

ADOPT A DRAIN VOLUNTEER PROGRAM. When natural debris and litter build up in storm drains, sediments and trash can deluge streams, lakes, and Puget Sound during big storms. Clogged drains can also cause localized flooding. Help us keep storm drains in your neighborhood clear by volunteering to adopt a storm drain near you! Contact Christie Lovelace to sign up: clovelace@shorelinewa.gov.



REPORT SPILLS AND DUMPING.

Spills happen – help us find them and clean them up! If you see anything that isn't rainwater entering an outdoor drain please call the City's 24/7 Customer Response Line at (206) 801-2700.

FOR FUTURE GENERATIONS

WATER QUALITY MONITORING

Utility staff monitor the overall water quality of the four major streams in Shoreline throughout the year. We also monitor swimming beaches at Echo and Hidden lakes during the summer for the health and safety of swimmers and pets. Water quality in our streams is measured using a Water Quality Index (WQI) score. The WQI is a unitless number from 1-100, where a higher WQI score indicates better water quality. The data for October 2018 through March 2019 show that Littles Creek is listed as a “high concern” due to factors like high bacteria, nutrient, and sediment levels, and low dissolved oxygen levels. All water quality monitoring reports are accessible through shorelinewa.gov/surfacewater

Creek	WQI Score	Status
Boeing Creek	75	Moderate Concern
McAleeer Creek	68	Moderate Concern
Cedarbrook Creek	67	Moderate Concern
Thornton Creek	50	Moderate Concern
Storm Creek	46	Moderate Concern
Littles Creek	15	High Concern



PHOTO: Utility staff sample Echo Lake weekly throughout summer for fecal coliform bacteria to ensure waters are safe for recreation and fishing.

SOAK IT UP REBATE PROGRAM

REBATES OFFERED FOR RAIN GARDENS AND NATIVE VEGETATION LANDSCAPING

The Utility provides rebates of up to \$2,000 for property owners to enhance their yard with a rain garden or native vegetation landscape. These attractive, natural filters soak up the rain, protect water quality, and beautify your property. 49 properties in Shoreline have participated in the program since 2014. 2019 program information is shown below. Rebates are provided on a first-come, first-served basis each year (note rebate is not applicable to existing or partially completed rain gardens or native landscaping beds). To schedule a free site consultation, call us at (206) 801-2420 or visit: shorelinewa.gov/soakitup.



8 PROJECTS INSTALLED

6,700 SQUARE FEET TREATED

\$15,250 IN REBATES

\$1,906.25 AVERAGE REBATE

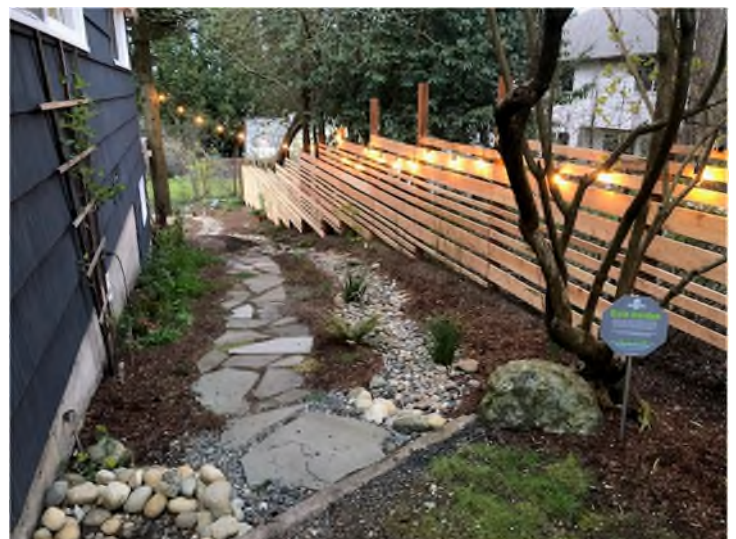


PHOTO: 2019 Rain Garden Project in the Westminster Triangle neighborhood.



17500 Midvale Avenue North
Shoreline, WA 98133-4921

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**Surface Water Utility
2019 Annual Report**

Alternate formats available
upon request: (206) 801-2700

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HELP PROTECT CLEAN WATER

SALMON FRIENDLY HOME TIPS

- Use a commercial car wash
- Fix vehicle leaks
- Scoop pet waste and place it in the trash
- Avoid using pesticides and fertilizers

Puget Sound
Starts Here.org

