Seattle Public Utilities

Drainage and Wastewater

Overview
Seattle Public Utilities (SPU) maintains the network of sewer and drainage systems throughout the City of Seattle. These systems include approximately:

- 448 miles of sanitary sewers
- 968 miles of combined sewers
- 68 Pump Stations
- 5.5 miles of wastewater force mains
- 84 City-owned and permitted Combined Sewer Overflow points
- 38 Combined Sewer Overflow control detention tanks/pipes
- 481 miles of storm drains / 290 storm drain outfalls
- 33,750 catch basins
- 65 miles of ditches, 128 miles of culverts
- 30 miles of stream channel (49 creeks, 6 of which are salmon bearing)
- 9 acres of green stormwater infrastructure
- 17 detention/treatment ponds
- 295 drainage flow control facilities
- 578 water quality structures

The Drainage and Wastewater (DWF) CIP is the vehicle for rehabilitating, replacing, improving, and expanding this infrastructure, as well as constructing projects that protect, conserve, and enhance our region's environmental resources. Planned spending in the DWF CIP is approximately $1.33 billion over the next six years, from 2021 to 2026.

Thematic Priorities/Project Selection Criteria
The goal of the DWF CIP is to construct facilities that reduce the frequency of flooding and sewer backups for customers and improve water quality and habitat in the environment by reducing sewage overflows and the impacts of stormwater pollution. Projects in the DWF CIP are guided by various Federal regulations, City policies, long-term plan documents, and the SPU Asset Management Committee (AMC) benefit criteria. Many DWF CIP projects are outlined in the Plan to Protect Seattle's Waterways and Asset Management Plans. In addition to candidate capital projects identified from these planning documents projects are identified from external projects and opportunities, and emergencies or other unexpected events. All potential capital projects are prioritized for consideration into the CIP budget. Priority rankings are based on the following set of criteria:

- **Public Health, Safety & Environment:** The overriding priority for the DWF is maintaining public health and safety. The importance of this project in providing or improving services to customers and decreasing our impact on the environment. Examples of highly ranked projects in this category include the South Park Pump Station, Localized Flood Control program, Sanitary Sewer Overflow Capacity program, South Park Water Quality Facility, and NDS Partnering.

- **Infrastructure Reliability & Risk:** How a project addresses infrastructure conditions or vulnerabilities. Examples of highly ranked projects in this category include the Pipe Rehabilitation and Pump Station improvement programs.

- **Regulatory, Mandates, Legal Agreements:** The City of Seattle/SPU must meet State and Federal regulatory requirements to comply with the Clean Water Act (CWA) and the Consent Decree that was entered in court on July 3, 2013, between the City, the U.S. Environmental Protection

Agency (EPA), and the U.S. Department of Justice (DOJ). The two most significant regulatory drivers associated with the CWA are the National Pollutant Discharge Elimination System (NPDES) Waste Discharge Permit (aka NPDES CSO Permit) and the NPDES Phase I Municipal Stormwater Permit (aka NDPES MS4 Permit). This ranking category considers the degree to which the project is driven by Federal, State, and local laws, permit and regulatory requirements, and consent decrees; as well as by legal agreements with public and private parties and the specific mandates of the City Council and Mayor. Examples of highly ranked projects in this category include the Ship Canal Water Quality Project, CSO Retrofits, South Park Water Quality Facility, and NDS Partnering.

- **External Drivers and Opportunities:** SPU's responsiveness to, or engagement with, the projects of other Departments or Jurisdictions, or opportunities to provide multiple benefits, address service equity, or reduce ratepayer costs through outside funding opportunities. Examples of highly ranked projects in this category include the Move Seattle projects.

Every project is rated against each criterion. Criteria ratings are then considered in determining an overall project priority ranking, using expert judgment (rather than a formula). Priority rankings for the CIP are determined by the leads for each LOB, with reviews by key internal stakeholders. Project priority rankings are used to clarify and document which projects are most important and why, to help determine which projects at the margin will be included, excluded or deferred from the CIP, and which projects should receive priority attention if a staff or financial resource constraint should arise.

To aid SPU in making responsible decisions on behalf of ratepayers prioritized projects must then be justified through a business case process that establishes that a problem or opportunity is timely and important and that the proposed solution is superior to alternatives based on a triple bottom line analysis (economic, environmental, and social) of life-cycle benefits and costs. The process also recognizes that a project may be a "must do" project (e.g. required by regulations). Business Cases must be approved by the SPU CEO/General Manager and Asset Management Committee.

DWW Priorities that are also Mayor/Council Priorities
Improvements to DWW infrastructure result in safer communities, a healthier environment, and regulatory compliance which are goals inherent within the Mayor's key values (safe, affordable, vibrant and interconnected City that fosters innovation).

- **Aligning Capital Investments with Community Planning**. SPU has aligned planning for the South Park Water Quality Facility with the Office of Planning and Community Development's Open Space planning in the S. Park Urban Village area and the Duwamish Valley Action Plan.

- **Aligning Capital Investments with Transportation Department's modal plan**. SPU has several projects to facilitate citywide interconnectivity efforts.
    - Primary investments are around supporting transportation led projects as part of the Move Seattle Levy, described below within the shared costs projects Budget Control Level (BCL).
    - SPU is also leading a joint SPU/SDOT project in the South Park industrial area providing long desired Drainage Conveyance and Roadway infrastructure.
    - The NDS Program, described below, collaborates with SDOT and has identified numerous joint sidewalk/bioretention project locations.

- **Expand use of Green Stormwater Infrastructure** has been identified by Mayor and Council as a priority. Projects that will help achieve the Citywide stretch goal to manage 700MG of stormwater annually with GSI by 2025, include the following:
    - The Natural Drainage Systems (NDS) Partnering program will use bioretention to reduce storm water pollution in creeks and to improve neighborhoods. The NDS Partnering Program will build natural drainage systems along approximately 66 blocks (330' block equivalents) in the Longfellow, Thornton, and Pipers Creek watersheds. The first of these projects was 30th Ave NE, with construction led by SDOT, which was completed in 2019.
    - GSI in Urban Villages Program. SPU and Council created the GSI in Urban Villages Program to complement proposed up zones through HALA, as well as the City's overall growth strategy. This new program has flexibility to address a variety of system problems within urban villages and urban centers, including flooding, sewer backups, water quality, and creek protection. The first GSI in Urban Villages project will be the Cloverdale Bioretention project to be constructed in 2021
    - RainWise Program fights water pollution by offering rebates to property owners for controlling stormwater at residences, schools, and businesses. This program was developed by SPU but is now delivered jointly with King County Wastewater Treatment Division. Over 1,500 Seattle residents and businesses have installed voluntary rain gardens or cisterns through this program, managing over 26 million gallons of runoff every year.

CIP Highlights

2021-2026 Proposed Drainage and Wastewater Fund CIP by BCL
(In '000s; total may not sum due to rounding)

BCL	2021	2022	2023	2024	2025	2026	Total
Protection of Beneficial Uses	21,139	46,286	42,151	35,025	32,132	29,718	206,451
Sediments	3,867	4,579	4,340	7,287	16,686	13,594	50,353
Combined Sewer Overflows	134,109	102,542	87,578	77,503	28,960	19,529	450,222
Rehabilitation and Heavy Equipment	38,268	43,269	40,810	41,352	41,885	44,775	248,359
Flooding, Sewer, Backups, and Landslides	42,899	19,760	14,004	15,904	35,504	52,640	180,711
Shared Cost Projects	32,957	37,993	31,361	22,165	20,571	24,489	169,537
Technology	5,151	4,299	4,299	4,299	4,299	4,299	26,646
Total	**278,390**	**258,729**	**224,544**	**203,535**	**180,037**	**189,044**	**1,332,278**

Protection of Beneficial Uses: This program makes improvements to the City's drainage system to reduce the harmful effects of stormwater runoff on creeks and receiving water bodies and preserve the storm water conveyance function of our creeks through stream culvert repair and rehabilitation. The

program includes projects to meet regulatory requirements, primarily NDS Partnering Projects (a key component of Seattle's Plan to Protect Seattle's Waterways) which improves water quality with GSI approaches while partnering with SDOT to provide streetscape enhancements. The program also includes projects that are part of the SPU and Council created GSI in Urban Villages Program. Funding in the DWF CIP is focused on cost effective stormwater and water quality projects such as NDS Partnering, GSI in Urban Villages projects, Capitol Hill Water Quality project, and the Taylor Creek Culvert Replacement project.

Sediments: The City of Seattle is a Potentially Responsible Party (PRP) for cleanup liabilities for contaminated sediments at the Lower Duwamish Waterway Superfund Site, the Harbor Island Superfund Site, and Gas Works Park because of alleged historic contributions from Combined Sewer Overflows (CSO) and storm drain discharges, or other City-owned facilities. The City continues to work with EPA, the Washington State Department of Ecology, King County, and other PRPs on an assessment of contaminants and sources. The Sediments program provides funding for studies and analysis for cleanup of contaminated sediment sites in which the City is a participant, for engineering design and construction of actual cleanup of contaminated sites, and for liability allocation negotiations. The study phase of sediment remediation projects often requires multiple years before specific cleanup actions are defined. Current projections reflect cleanup construction adjacent to Gasworks Park, the Duwamish Waterway Sediment Remediation, and East Waterway Remediation projects beginning in 2024 based on preliminary schedules.

Combined Sewer Overflows: This program consists of projects that are mandated by State and Federal regulations to control combined sewer overflows (CSOs) into the City's receiving waters. During heavy rainfall events, the combination of stormwater (about 90 percent of the volume) and sewage may exceed the capacity of the combined sewer system (CSS) and overflow into our waterways – causing a combined sewer overflow (CSO). CSOs spill a mixture of raw sewage and stormwater into local waterways at 85 outfalls throughout the City. These spills violate water quality standards, create unacceptable risk to public health, contaminate sediment and habitat for endangered species and pollute the Puget Sound.

Annual CSOs have been reduced from 20-30 billion gallons per year by both the City and the County in 1970 to about 1 billion gallons per year, today. The City's overflows account for 100-200 million gallons per year. SPU currently does not meet regulatory mandates that limit CSOs to one untreated overflow per outfall location per year. SPU is required by State and Federal law to achieve control of CSOs by 2030. The LTCP, also called the Plan to Protect Seattle's Waterways, was approved by regulators in May 2015. Ultimately the Consent Decree requires completion of construction of all CSO reduction projects by December 2030. CSOs must be proven to be controlled one year after completion of construction. Continuing investments in CSO control will enable SPU to achieve compliance with the 2030 milestone.

Projects in the CSO Program include large infrastructure projects (e.g. storage structures, pipes, tunnels, wet weather treatment plants, stormwater separation, pump stations, etc.), smaller retrofits, construction of Green Stormwater Infrastructure (GSI) for CSO control, and development and implementation of regulatory required plans such as the Plan to Protect Seattle's Waterways. The largest project in the DWF CIP is the Ship Canal Water Quality Project (SCWQP). The SCWQP consists of a 2.7-mile-long, approximately 18-foot-diameter tunnel that, when completed, will capture and store approximately 75 million gallons of sewage and stormwater flows from Ballard, Fremont, Wallingford and Queen Anne.

Other key efforts in the program include Pump Station 13 Upgrade and Force Main Rehabilitation and Pump Station 22 Retrofit and Force Main Upgrade. Planning work is underway and will continue through the coming years for additional CSO reduction efforts to meet CSO Consent Decree compliance date requirements. SPU currently expects to spend approximately $450 million over the next six years on CSO reduction projects. The majority of this spending is associated with the SCWQP.

Rehabilitation: This program consists of projects that repair, rehabilitate or replace existing drainage and wastewater assets to maintain or improve the current functionality level of the system. Assets that are addressed include:

- pump station structures, airlift conversions, major mechanical, ventilation and electrical components;
- drainage facilities including water quality structures, flow control structures and large surface water facilities; and
- drainage and wastewater conveyance pipes and structures (catch basins, maintenance holes and sandboxes).

Work within this program is a critical component to achieving SPU's Consent Decree target of four sanitary sewer overflows per 100 miles of sewer pipe annually. Individual projects are defined by the type and method of rehabilitation and/or replacement and include emergency rehabilitation, no-dig pipe lining rehabilitation by crews or contract, full mainline dig pipe replacement by contract, dig point sewer pipe and structure rehabilitation by crews or contract, and pump station repairs or replacement by crew or contractor.

This proposed budget will include a new drainage facility master project to rehabilitate or replace water quality structures, flow control structures and large surface water facilities by crew or contractor.

Flooding, Sewer Back-up, and Landslides: This program is responsible for preventing and alleviating flooding and sewer backups in the City of Seattle, with a primary focus on the protection of public health, safety, and property. The program area is focused on planning, design, and construction of new pipes, ditches, culverts, detention facilities, and GSI that control and/or convey storm runoff to the ultimate discharge locations of creeks, lakes, and the Puget Sound. This program also involves protecting SPU drainage and wastewater infrastructure in landslide prone areas, both from impending small landslides, and providing drainage improvements where surface water generated from the City right-of way is contributing to small landslides. Lastly, this program also includes sewer capacity projects that reduce sewer backups and helps lower the risk of exceeding the Consent Decree target of four sanitary sewer overflows per 100 miles of sewer pipe per year. Major projects in this program include the Pearl Street SSO reduction project, the 12th Avenue drainage project, and the South Park Water Quality and Pump Station project. The South Park Water Quality Facility is a regulatory commitment within the Plan to Protect Seattle's Waterways.

Shared Cost Projects: This program includes individual capital improvement projects which typically benefit multiple Lines of Business (LOB) (e.g. the Water LOB and the Drainage and Wastewater LOB) and whose costs are "shared," or paid for by more than one of SPU's utility funds.

The Proposed Budget for the Shared Cost program includes budgets for a number of interdepartmental projects including the Alaskan Way Viaduct and Seawall Replacement, Move Seattle, Center City Streetcar, and Sound Transit Link Light Rail. This BCL also includes funding for SPU Facility Improvements such as the South Operations Center, the North Operations Center, and a new dewatering facility near

the South Transfer Station. Other programs in this BCL include DWW Heavy Equipment Purchases, 1% for the Arts, and several smaller projects.

Technology: The Technology CIP is managed in six program areas that provide a department-wide view of technology investments to address SPU's strategic, business, and City-wide priorities. These areas are:

- Customer Contact and Billing;
- Enterprise Information Management;
- IT Infrastructure;
- Project Delivery & Performance;
- Science & System Performance; and
- Asset Information Management.

Investments in 2021 address several of SPU's key initiatives, including:

- Financial Management and Internal Controls;
- Operational Excellence and Performance Management;
- An Easy and Engaged Customer Experience;
- Data-driven Decision Support; and
- Project Delivery/Project Controls.

In 2021, SPU will continue focusing its technology spending on the highest priority business needs. These projects would primarily be within the Customer Contact and Billing Program, Project Delivery and Performance Program, as well as the Asset Information Management Program.

With the new Customer Information System (CIS) already in place, the next major projects for SPU within the Customer Contact and Billing Program include the Utilities Customer Self-Service Portal project, the Customer Contact and Billing Upgrade, CIS Workflow, and the CIS Reporting. Other projects slated would be enhancements to SPU's Enterprise Project Management System and the Development Systems Integration project, and the Maximo Business Intelligence upgrade along with other projects that have been deferred in previous years.

CIP Revenue Sources

Historically, the DWF CIP has been funded primarily by revenue bonds serviced by ratepayers. However, DWF financial policies adopted in 2003 gradually increase cash contributions from SPU to fund the CIP. By 2007, a 3-year average of 25 percent of total CIP costs were funded by a cash contribution, with the remaining capital needs being debt financed.

SPU's DWF CIP is funded largely by Drainage and Sewer ratepayers. SPU issues bonds, serviced by ratepayers that cover approximately 75 percent of the CIP, with the remainder funded by cash. DWF rates were approved by the Mayor and City Council in 2018 for the three-year period of 2019-2022.

SPU also actively seeks grants and low-interest loans. Loans like this offer a lower interest rate than what SPU can borrow/issue debt and offset the need to draw down extra dollars from the construction fund. SPU also receives Remedial Action Grants from the Washington State Department of Ecology for up to 50 percent of sediments cleanup project costs.

Summary of Upcoming Budget Issues and Challenges
The biggest challenge for DWF will be continuing to manage priority projects while still complying with regulatory requirements from the EPA, and Washington State Department of Ecology (DOE) - all within the financial limitations of the Fund.

The City negotiated a Consent Decree between the City, the EPA, and the DOJ for compliance with the CWA and State regulations. The Consent Decree was entered in court on July 3, 2013 and includes deadlines for development and implementation of the LTCP and will drive spending in the CSO Reduction Program over the next several years. The Consent Decree also includes requirements to implement a Capacity Management, Operations and Maintenance (CMOM) Program, which drives operations and maintenance spending and CIP spending in the Rehabilitation Program. Additionally, an NPDES permit for stormwater includes requirements to help protect local waterways and the Puget Sound from damaging pollutants and excessive runoff. This increased regulatory emphasis on protecting and improving water quality has resulted in the need for the City to make substantial investments in detention, water quality treatment (e.g., GSI), CSO retrofits, pipe and pump station rehabilitation, and inflow/infiltration reduction.

- Detention: This focuses on storing stormwater and/or sewage during a rainfall event and can be accomplished through detention ponds (for stormwater), GSI (for stormwater) or underground tanks or tunnels (for both wastewater and stormwater). Detention can be added to the drainage system to offset the impacts of larger storms that overwhelm the conveyance capacity of the combined sewer system and can result in backups of sewage, localized flooding and releases of untreated sewage.

- Water Quality Treatment: This focuses on removing pollutants and can be accomplished through GSI or the use of technology such as specialized media filters. GSI is the use of green solutions to help reduce untreated overflows by allowing stormwater to infiltrate slowly into the ground, cutting the volume of stormwater entering the system, and providing water quality treatment through natural processes as the polluted runoff comes in contact with the soil and vegetation. The use of GSI is required as part of development through Seattle's NPDES permit and Stormwater Code.

- CSO Retrofits: This focuses on optimizing the existing collection, pumping and storage systems, using low-cost repairs and modifications to reduce overflows to waterways.

- Pipe and Pump Station Rehabilitation: This consists of repairing, rehabilitating, or replacing existing gravity sewer pipes, wastewater pump stations, and/or force mains that have deficiencies or have reached the end of their useful life.

- Inflow/Infiltration Reduction: This focuses on filling in cracks in sewer lines that allow groundwater to enter the system. It also addresses parts of the system where there are direct stormwater connections to the sanitary sewer system which can/should be directed to a separated stormwater system. By reducing inflow/infiltration, it is possible to reduce the frequency and volume of SSOs and sewer backups.

Other challenges DWF faces in meeting its obligations:

1) Addressing public expectations: it is challenging to address public expectations around our basic service level programs, such as flooding and system capacity. The funding for these programs is below the program need, but unable to be increased at this time due to the demand on our budget from our regulatory requirements. The separated drainage and wastewater systems are at capacity during storm events or lacking the fundamental infrastructure at various locations across the City. The impacts can range from very serious (basement sewer back-ups) to nuisance (limited street or yard flooding) issues.

2) Construction Costs: due to market conditions and building large infrastructure in dense urban areas costs to construct drainage and wastewater infrastructure have increased significantly putting additional pressure on the portfolio.

3) Climate Change: increasing rainfall intensities resulting from climate change are increasing pressure on drainage and wastewater infrastructure leading to increased CSOs and driving the need for larger solutions and additional system improvements.

Future Projects/What is on the Horizon
Over the next 10 years the DWF CIP will be driven largely by regulatory requirements, major transportation projects, and Operations Crew Facilities. Major projects include the completion of the Ship Canal Water Quality Project, sediment remediation, and other projects necessary under the LTCP/Plan to Protect Seattle's Waterways, and localized flooding reduction in Broadview, and flood reduction and water quality improvements in South Park.

SPU is moving forward with a comprehensive planning effort, the Integrated System Plan, to better identify the highest priority locations and potential funding and financing strategies. The Integrated System Plan will be a 50-year plan for managing and improving Seattle's drainage and wastewater systems. Through this planning effort, SPU will identify the partnerships, programs, and projects that will improve the performance and resilience of our drainage and wastewater systems while optimizing social and environmental co-benefits for the City. We are developing our plan through technical analysis, robust community engagement and an integrated approach to planning. By the end of 2022, SPU will have near- and long-term plans for drainage and wastewater programs, partnerships, and infrastructure investments over the next 50 years. This planning is part of building a better Seattle by providing drainage and wastewater services that are affordable, safe, green, and just in a climate uncertain future.

CIP Project Page Readers Note
SPU's 2020 revised budget is sometimes overstated because it includes carryforward appropriations from 2019. SPU will submit CIP carry forward abandonments as part of the Q4 Supplemental budget, which will then be reflected in the 2021-2026 Adopted CIP document.

Creek Culvert Replacement Program

Project No:	MC-SU-C3314	**BSL Code:**	BC-SU-C333B
Project Type:	Ongoing	**BSL Name:**	Protection of Beneficial Uses
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project provides for the repair and replacement of stream culverts that are part of SPU's critical drainage infrastructure. Culverts are prioritized for repair or replacement based on structural condition. Projects are then sequenced based on prioritization and other factors such as readiness to proceed, ability to address other drainage needs (e.g., flooding, maintenance), potential partnerships, synergies with other projects and availability of funding.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	3,944	3,443	1,671	2,419	10,693	8,590	11,702	10,622	53,083
Total:	**3,944**	**3,443**	**1,671**	**2,419**	**10,693**	**8,590**	**11,702**	**10,622**	**53,083**
Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	3,944	3,443	1,671	2,419	10,693	8,590	11,702	10,622	53,083
Total:	**3,944**	**3,443**	**1,671**	**2,419**	**10,693**	**8,590**	**11,702**	**10,622**	**53,083**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

GSI for Protection of Beneficial Uses

Project No:	MC-SU-C3316	**BSL Code:**	BC-SU-C333B
Project Type:	Ongoing	**BSL Name:**	Protection of Beneficial Uses
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing program provides construction of Green Stormwater Infrastructure (GSI) within the separated stormwater system. Work includes right-of-way retrofits with bioretention and/or biofiltration for water quality treatment and flow control, as well as potential expansion of private property incentives for construction of properly sized and installed rain gardens or cisterns (RainWise program) into creek watersheds. The Natural Drainage Systems Projects within this program will achieve the water quality goals for the NDS Partnering Program identified in Seattle's Plan to Protect Seattle's Waterways (the Long Term Control Plan requirement within our Consent Decree) while coordinating with SDOT and community groups to deliver co-benefits such as sidewalks. The program also includes projects that are part of the SPU and Council created GSI in Urban Villages Program which will deliver multi-purpose green infrastructure projects in urban villages and urban centers through community partnerships and development synergies.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	18,895	27,479	17,832	30,120	27,237	20,773	16,639	18,125	177,100
Total:	**18,895**	**27,479**	**17,832**	**30,120**	**27,237**	**20,773**	**16,639**	**18,125**	**177,100**
Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	18,895	27,479	17,832	30,120	27,237	20,773	16,639	18,125	177,100
Total:	**18,895**	**27,479**	**17,832**	**30,120**	**27,237**	**20,773**	**16,639**	**18,125**	**177,100**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Beneficial Uses Program

Project No:	MC-SU-C3317	**BSL Code:**	BC-SU-C333B
Project Type:	Ongoing	**BSL Name:**	Protection of Beneficial Uses
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project develops drainage related projects to improve the water quality, stream function and habitat in the streams and receiving waters of Seattle. Projects include stream and habitat restoration to reduce flooding, culvert repair and replacements to protect public safety, and green stormwater infrastructure projects to address flooding and control and clean runoff to streams.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	8,019	2,209	1,636	13,747	4,221	5,663	3,791	971	40,256
Total:	**8,019**	**2,209**	**1,636**	**13,747**	**4,221**	**5,663**	**3,791**	**971**	**40,256**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	8,019	2,209	1,636	13,747	4,221	5,663	3,791	971	40,256
Total:	**8,019**	**2,209**	**1,636**	**13,747**	**4,221**	**5,663**	**3,791**	**971**	**40,256**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Sediment Remediation

Project No:	MC-SU-C3503	**BSL Code:**	BC-SU-C350B
Project Type:	Ongoing	**BSL Name:**	Sediments
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing program provides for City of Seattle participation in cleanup of contaminated sediment sites at multiple locations across Seattle for which the City's drainage and wastewater utilities may have some liability. Typical phases of such projects include preliminary studies and analyses, preliminary engineering for actual cleanup efforts, and liability allocation negotiations. This program enhances the natural environment of Seattle and addresses both State and Federal regulatory agency requirements.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Rates	41,317	3,866	3,867	4,579	4,340	7,287	16,686	13,594	95,537
Total:	**41,317**	**3,866**	**3,867**	**4,579**	**4,340**	**7,287**	**16,686**	**13,594**	**95,537**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Fund	41,317	3,866	3,867	4,579	4,340	7,287	16,686	13,594	95,537
Total:	**41,317**	**3,866**	**3,867**	**4,579**	**4,340**	**7,287**	**16,686**	**13,594**	**95,537**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Long Term Control Plan

Project No:	MC-SU-C3604	**BSL Code:**	BC-SU-C360B
Project Type:	Ongoing	**BSL Name:**	Combined Sewer Overflows
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This project supports the ongoing implementation of SPU's Combined Sewer Overflow (CSO) Reduction Long Term Control Plan (LTCP) in accordance with SPU's National Pollutant Discharge Elimination System (NPDES) permit and the Federal CSO Control Policy. On May 1, 2012, the Environmental Protection Agency/Department of Justice issued a draft Consent Decree to the City of Seattle which requires the development and submission of a Long-Term Control Plan for approval by May 30, 2015. It further stipulates that all CSO Control Measures are to be constructed as expeditiously as practicable, and in no event later than December 31, 2030. The Consent Decree also allows the City to propose storm water control project(s) as part of an Integrated Plan, in addition to the CSO Control Measures. The LTCP identified projects and programs to reduce the number and volume of CSOs, meet receiving water quality standards, and protect designated beneficial uses. The LTCP includes flow characterization, monitoring, and hydraulic modeling; development of CSO control alternatives; development of control alternatives that takes into consideration costs and performance; operational plan revisions; public participation; implementation schedule; and post-construction monitoring.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	16,227	299	800	800	600	600	600	600	20,526
Total:	**16,227**	**299**	**800**	**800**	**600**	**600**	**600**	**600**	**20,526**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	16,227	299	800	800	600	600	600	600	20,526
Total:	**16,227**	**299**	**800**	**800**	**600**	**600**	**600**	**600**	**20,526**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

S Henderson CSO Storage

Project No:	MC-SU-C3609	**BSL Code:**	BC-SU-C360B
Project Type:	Discrete	**BSL Name:**	Combined Sewer Overflows
Project Category:	Improved Facility	**Location:**	S Henderson St.
Current Project Stage:	Stage 6 - Closeout	**Council District:**	Council District 2
Start/End Date:	2001 - 2019	**Neighborhood District:**	Southeast
Total Project Cost:	$59,601	**Urban Village:**	Not in an Urban Village

This project provides construction of combined sewer overflows (CSO) facilities in the Henderson area in the southeast part of Seattle. Facilities will be built to meet level of service requirements for CSOs and comply with State and Federal regulations.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	59,601	-	-	-	-	-	-	-	59,601
Total:	**59,601**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**59,601**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	59,601	-	-	-	-	-	-	-	59,601
Total:	**59,601**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**59,601**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Green Stormwater Infrastructure Program

Project No:	MC-SU-C3610	**BSL Code:**	BC-SU-C360B
Project Type:	Ongoing	**BSL Name:**	Combined Sewer Overflows
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing program provides construction of Green Stormwater Infrastructure (GSI) as a component of combined sewer overflow (CSO) reduction within the uncontrolled CSO basins. Work includes roadside bioretention and the RainWise program. RainWise provides financial incentives to private property owners within our uncontrolled CSO basins for construction of properly sized and installed raingardens or cisterns. The program supports the City's current regulatory strategy for compliance with CSO National Pollutant Discharge Elimination System (NPDES) permit.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Rates	12,982	3,161	528	538	558	538	528	528	19,358
Total:	**12,982**	**3,161**	**528**	**538**	**558**	**538**	**528**	**528**	**19,358**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Fund	12,982	3,161	528	538	558	538	528	528	19,358
Total:	**12,982**	**3,161**	**528**	**538**	**558**	**538**	**528**	**528**	**19,358**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

CSO Facility Retrofit

Project No:	MC-SU-C3611	**BSL Code:**	BC-SU-C360B
Project Type:	Ongoing	**BSL Name:**	Combined Sewer Overflows
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project retrofits, upgrades, and modifies existing Combined Sewer Overflows (CSO) reduction facilities in Seattle CSO basins. Retrofit projects cost-effectively optimize and maximize existing system operation to minimize CSOs to the greatest extent possible, reducing long term CSO storage needs. This project assists in achieving State Department of Ecology's requirement of an average of no more than one CSO event per outfall per year.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Rates	12,133	23,380	3,546	225	-	-	-	-	39,284
Total:	**12,133**	**23,380**	**3,546**	**225**	**-**	**-**	**-**	**-**	**39,284**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Fund	12,133	23,380	3,546	225	-	-	-	-	39,284
Total:	**12,133**	**23,380**	**3,546**	**225**	**-**	**-**	**-**	**-**	**39,284**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Future CSO Projects

Project No:	MC-SU-C3612	**BSL Code:**	BC-SU-C360B
Project Type:	Ongoing	**BSL Name:**	Combined Sewer Overflows
Project Category:	Improved Facility	**Location:**	N/A
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This project is for future combined sewer overflow (CSO) reduction projects that will be identified through the CSO Long-Term Control Plan (LTCP) Update. Future projects are most likely to include underground storage projects, wastewater lift station improvements, and/or wastewater conveyance system improvements. Planning for the projects began in 2018, and the projects should complete their construction by 2030.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	1,466	5,311	4,295	6,517	9,160	21,701	14,217	8,791	71,457
Total:	**1,466**	**5,311**	**4,295**	**6,517**	**9,160**	**21,701**	**14,217**	**8,791**	**71,457**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	1,466	5,311	4,295	6,517	9,160	21,701	14,217	8,791	71,457
Total:	**1,466**	**5,311**	**4,295**	**6,517**	**9,160**	**21,701**	**14,217**	**8,791**	**71,457**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Ship Canal Water Quality Project

Project No:	MC-SU-C3614	**BSL Code:**	BC-SU-C360B
Project Type:	Discrete	**BSL Name:**	Combined Sewer Overflows
Project Category:	Improved Facility	**Location:**	West Ship Canal
Current Project Stage:	Stage 5 - Construction	**Council District:**	Multiple
Start/End Date:	2014 - 2027	**Neighborhood District:**	Multiple
Total Project Cost:	$570,000	**Urban Village:**	Multiple

The City of Seattle (the City) has prepared a comprehensive strategy, called The Plan to Protect Seattle's Waterways (the Plan) to reduce overflows and discharge of pollutants from combined sewers and the storm drain system. The City must control sewer discharges to protect public health, the environment, to comply with the Clean Water Act, the United States District Court Consent Decree, and State regulations. On May 29, 2015, the City submitted the plan to EPA and Ecology for approval. The largest project identified in the Plan is the Ship Canal Water Quality Project. This project is a joint project between SPU and King County to design and construct a storage tunnel to capture Combined Sewer Overflows for 5 SPU outfalls and two King County outfalls. The tunnel will be 2.7 miles long and run from Wallingford to Ballard. The tunnel will be approximately 18 feet in diameter and have a storage volume of about 30 million gallons. The purpose of the project is to bring all seven outfalls into compliance with the State's control standard of one untreated overflow per year per outfall on a 20-year moving average. Note all City/County funding allocations are for informational purposes, only. Actual resource allocations will be determined through ongoing project governance agreements and interagency coordination between the City and King County.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	68,417	80,767	84,781	64,895	59,754	44,037	7,676	9,611	419,938
King County Funds	21,756	49,365	40,160	29,567	17,507	10,627	5,940	-	174,921
Total:	**90,173**	**130,132**	**124,941**	**94,462**	**77,261**	**54,664**	**13,615**	**9,611**	**594,860**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	90,173	130,132	124,941	94,462	77,261	54,664	13,615	9,611	594,860
Total:	**90,173**	**130,132**	**124,941**	**94,462**	**77,261**	**54,664**	**13,615**	**9,611**	**594,860**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Pump Station & Force Main Improvements

Project No:	MC-SU-C3703	**BSL Code:**	BC-SU-C370B
Project Type:	Ongoing	**BSL Name:**	Rehabilitation
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides for improvements and upgrades to the 68 SPU-owned wastewater pump stations and force mains. Typical improvements may include, but are not limited to, replacement of existing pump station assets including pumps, motors, and valves, and installation of new assets such as SCADA systems, generators, and emergency plugs. This project enhances and extends the useful life of the existing pump stations which protects water quality.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	18,133	8,719	7,152	10,510	7,378	7,242	7,394	8,596	75,124
Total:	**18,133**	**8,719**	**7,152**	**10,510**	**7,378**	**7,242**	**7,394**	**8,596**	**75,124**
Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	18,133	8,719	7,152	10,510	7,378	7,242	7,394	8,596	75,124
Total:	**18,133**	**8,719**	**7,152**	**10,510**	**7,378**	**7,242**	**7,394**	**8,596**	**75,124**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Outfall Rehabilitation Program

Project No:	MC-SU-C3708	**BSL Code:**	BC-SU-C370B
Project Type:	Ongoing	**BSL Name:**	Rehabilitation
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project provides rehabilitation of outfalls throughout Seattle Public Utilities service area. Typical improvements may include, but are not limited to, repair, rehabilitation or replacement of outfall structures. This project will investigate the condition of each of the outfalls and complete an options analysis, followed by design, construction, and closeout activities.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	3,720	604	510	1,500	1,500	1,500	1,500	1,500	12,334
Total:	**3,720**	**604**	**510**	**1,500**	**1,500**	**1,500**	**1,500**	**1,500**	**12,334**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	3,720	604	510	1,500	1,500	1,500	1,500	1,500	12,334
Total:	**3,720**	**604**	**510**	**1,500**	**1,500**	**1,500**	**1,500**	**1,500**	**12,334**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Pipe Renewal Program

Project No:	MC-SU-C3710	**BSL Code:**	BC-SU-C370B
Project Type:	Ongoing	**BSL Name:**	Rehabilitation
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

SPU operates and maintains approximately 1,423 miles of wastewater conveyance (combined and separated) pipe. The age of this infrastructure varies; however, significant portions of the system were constructed prior to 1950. This ongoing program repairs, replaces, rehabilitates and renews the conveyance system by SPU crews and various contracting construction projects.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	65,295	40,901	30,356	31,010	31,682	32,360	32,741	34,429	298,774
Total:	**65,295**	**40,901**	**30,356**	**31,010**	**31,682**	**32,360**	**32,741**	**34,429**	**298,774**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	65,295	40,901	30,356	31,010	31,682	32,360	32,741	34,429	298,774
Total:	**65,295**	**40,901**	**30,356**	**31,010**	**31,682**	**32,360**	**32,741**	**34,429**	**298,774**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Drainage Facilities Rehabilitation

Project No:	MC-SU-C3711	**BSL Code:**	BC-SU-C370B
Project Type:	Ongoing	**BSL Name:**	Rehabilitation
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This new project provides for improvements and upgrades to SPU-owned drainage facilities including, but not limited to, detention/treatment ponds, flow control facilities, and water quality structures. Typical improvements may include, but are not limited to, the repair, rehabilitation, or replacement of drainage facilities.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	-	250	250	250	250	250	250	250	1,750
Total:	**-**	**250**	**250**	**250**	**250**	**250**	**250**	**250**	**1,750**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	-	250	250	250	250	250	250	250	1,750
Total:	**-**	**250**	**250**	**250**	**250**	**250**	**250**	**250**	**1,750**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Drainage Capacity Program

Project No:	MC-SU-C3802	**BSL Code:**	BC-SU-C380B
Project Type:	Ongoing	**BSL Name:**	Flooding, Sewer Backup & Landslide
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing program provides flood control and local drainage and wastewater projects to improve system capacity or increase the existing level of service. Candidate projects are identified through DWW investigations, claims, complaints, studies, and prior planning. Drainage “spot” projects and small landslides prevention projects are also included within this program. The Localized Flood Control Program improves Drainage and Wastewater levels of service.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	21,260	2,437	2,754	3,711	3,302	3,904	6,804	6,940	51,112
Total:	**21,260**	**2,437**	**2,754**	**3,711**	**3,302**	**3,904**	**6,804**	**6,940**	**51,112**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	21,260	2,437	2,754	3,711	3,302	3,904	6,804	6,940	51,112
Total:	**21,260**	**2,437**	**2,754**	**3,711**	**3,302**	**3,904**	**6,804**	**6,940**	**51,112**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Sanitary Sewer Overflow Capacity

Project No:	MC-SU-C3804	**BSL Code:**	BC-SU-C380B
Project Type:	Ongoing	**BSL Name:**	Flooding, Sewer Backup & Landslide
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing program is designed to improve sanitary sewer service to Seattle customers by addressing current and projected capacity limitations of the wastewater system through capital project improvements. Such improvements may include demand management measures such as infiltration and inflow (I/I) reduction, increased conveyance capacity, and individual customer measures such as installation of backflow preventers or grinder pumps to reduce the risk that customers will experience backups of sewage into their homes and businesses during storm events.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	7,816	13,619	11,807	3,164	4,638	9,200	11,500	11,500	73,245
Total:	**7,816**	**13,619**	**11,807**	**3,164**	**4,638**	**9,200**	**11,500**	**11,500**	**73,245**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	7,816	13,619	11,807	3,164	4,638	9,200	11,500	11,500	73,245
Total:	**7,816**	**13,619**	**11,807**	**3,164**	**4,638**	**9,200**	**11,500**	**11,500**	**73,245**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

South Park Stormwater Program

Project No:	MC-SU-C3806	**BSL Code:**	BC-SU-C380B
Project Type:	Discrete	**BSL Name:**	Flooding, Sewer Backup & Landslide
Project Category:	Improved Facility	**Location:**	698 S Riverside DR
Current Project Stage:	Stage 3 - Design	**Council District:**	Council District 1
Start/End Date:	2006 - 2025	**Neighborhood District:**	Greater Duwamish
Total Project Cost:	$134,876	**Urban Village:**	Greater Duwamish

This program constructs a pump station (PS), a water quality facility (WQF), and additional drainage conveyance in South Park. The PS will allow the existing storm drain outfall to drain the system when the tide is high and will support future drainage projects. The WQF will treat most stormwater flows from the basin, reducing pollutant loading to the Duwamish. Excessive flows will bypass the WQF and be pumped directly to the river. This program was formerly titled "South Park Pump Station."

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Rates	16,958	19,739	23,008	9,988	6,035	2,800	17,200	34,200	129,927
Total:	**16,958**	**19,739**	**23,008**	**9,988**	**6,035**	**2,800**	**17,200**	**34,200**	**129,927**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Fund	16,958	19,739	23,008	9,988	6,035	2,800	17,200	34,200	129,927
Total:	**16,958**	**19,739**	**23,008**	**9,988**	**6,035**	**2,800**	**17,200**	**34,200**	**129,927**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Thornton Confluence Improvement

Project No:	MC-SU-C3811	**BSL Code:**	BC-SU-C380B
Project Type:	Discrete	**BSL Name:**	Flooding, Sewer Backup & Landslide
Project Category:	Improved Facility	**Location:**	Thornton Creek
Current Project Stage:	Stage 6 - Closeout	**Council District:**	Multiple
Start/End Date:	2008 - 2019	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	$7,907	**Urban Village:**	Not in an Urban Village

This project provides creek realignment, floodplain excavation, culvert replacement, and riparian plantings at the confluence of the north and south branches of Thornton Creek. SPU has acquired a number of flood prone properties in this area over the last decade. Using these properties, this project increases culvert capacity, floodplain area and flood storage, and provides stream habitat benefits. The project will help alleviate flooding and reduce maintenance at Meadowbrook Pond.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	7,606	301	-	-	-	-	-	-	7,907
Total:	**7,606**	**301**	**-**	**-**	**-**	**-**	**-**	**-**	**7,907**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	7,606	301	-	-	-	-	-	-	7,907
Total:	**7,606**	**301**	**-**	**-**	**-**	**-**	**-**	**-**	**7,907**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Broadview Long-Term Plan

Project No:	MC-SU-C3812	**BSL Code:**	BC-SU-C380B
Project Type:	Ongoing	**BSL Name:**	Flooding, Sewer Backup & Landslide
Project Category:	Improved Facility	**Location:**	Broadview
Current Project Stage:	N/A	**Council District:**	Council District 5
Start/End Date:	N/A	**Neighborhood District:**	Northwest
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

The Broadview Long-Term Plan had been an ongoing program to address longstanding drainage and wastewater problems. The current funded capital project within that program is the 12th Avenue NW Drainage Basin project, which addresses public and private flooding problems in that area by providing stormwater detention and green infrastructure.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Rates	7,429	6,298	5,329	2,897	30	-	-	-	21,984
Total:	**7,429**	**6,298**	**5,329**	**2,897**	**30**	**-**	**-**	**-**	**21,984**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Fund	7,429	6,298	5,329	2,897	30	-	-	-	21,984
Total:	**7,429**	**6,298**	**5,329**	**2,897**	**30**	**-**	**-**	**-**	**21,984**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Seattle Public Utilities

Solid Waste

Overview

Seattle Public Utilities (SPU) collects and disposes of solid waste generated within the City of Seattle. To fulfill this responsibility, the City owns and manages the following significant infrastructure:

- Two transfer stations;
- One recycling and re-use facility;
- Two household hazardous waste facilities;
- A fleet of trucks and heavy equipment; and
- Three closed landfills previously used by the City.

The Solid Waste Fund (SWF) Capital Improvement Plan (CIP) is the planning tool for rehabilitating, replacing, improving, and expanding infrastructure, as well as constructing projects that protect, conserve, and enhance our region's environmental resources. Planned spending in the SWF CIP is approximately $85 million over the next six years, from 2021 through 2026.

Major anticipated projects include:

- Cleanup of the historic South Park Landfill (2022-2024) at the South Park Development Project.
- Minimum operational improvements prior to the full redevelopment of the old South Transfer Station campus.

These projects comprise approximately 62% of the SWF CIP. Other significant projects include the Waste Removal project at the Midway Landfill, replacing two compactors, improvements at the South Transfer Station, and SPU's annual equipment investment.

Thematic Priorities

The SWF places a high priority on managing environmental issues and addressing regulatory requirements related to current and historic solid waste facilities while protecting employees and customer health and safety.

- Managing environmental issues and regulations: SPU is required to improve former landfill sites and act as necessary when conditions change. For example, underground gas levels at these sites are monitored. When increasing gas levels are detected, SPU implements improvements to extract the excess gas or otherwise mitigate the environmental impacts of the gas increase. Landfill projects are also triggered by Washington State Department of Transportation improvements to Interstate-5 that require modification to landfill infrastructure in the right-of-way and support of Sound Transit projects that impact the Midway Landfill. Additionally, the new transfer stations are designed to reduce the environmental impacts of the existing stations on neighboring communities.

Project Selection Criteria

SPU identifies candidate capital projects from several sources – planning (e.g., comprehensive plans, program plans), external projects and opportunities, and emergencies or other unexpected events. Under SPU's Asset Management System, projects must be justified through a business case process that establishes that a problem or opportunity is timely and important and that the proposed solution is

superior to alternatives based on a triple bottom line analysis (economic, environmental, and social) of life-cycle benefits and costs. The process also recognizes that a project may be a "must do" project (e.g. required by regulations).

Prioritization of SPU projects are based on the following set of criteria:

- **Regulatory Mandates, Legal Agreements**: The degree to which the project is driven by Federal, State, and local laws, permit and regulatory requirements, and consent decrees; as well as by legal agreements with public and private parties. Examples of highly ranked projects in this category include the South Park Development project and Kent Highlands and Midway Landfills programs.
- **External Drivers:** SPU's responsiveness to, or engagement with, the projects of other departments or jurisdictions, and the specific mandates of the City Council and Mayor. An example of a project in this category is the 1% for Arts program.
- **Infrastructure:** How a project addresses infrastructure conditions or vulnerabilities. An example of a highly ranked project in this category is the operational improvements at the South Transfer Station.
- **Level of Service:** The importance of this project in providing or improving services to customers. An example of a highly ranked project in this category is the replacement of two compactors at the transfer stations.
- **Other Factors:** Other important factors include high net present value or cost-effectiveness, social or environmental benefits that were not otherwise recognized, a project already in progress or near completion, limited time opportunity, demonstration projects, community visibility, or outside funding.

Every project is rated against each criterion. Criteria are then considered in determining an overall project priority ranking, using expert judgment (rather than a formula). Priority rankings for the CIP are determined by the leads for each LOB, with reviews by key internal stakeholders. The ranking scheme and criteria are the same for all LOBs and are approved by the SPU General Manager/CEO and Asset Management Committee. Project priority rankings are used to clarify and document which projects are most important and why, to help determine which projects at the margin will be included, excluded or deferred from the CIP, and which projects should receive priority attention if a staff or financial resource constraint should arise.

CIP Highlights

2021-2026 Proposed Solid Waste Fund CIP by BCL
(In '000s; total may not sum due to rounding)

BCL	2020	2021	2022	2023	2024	2025	Total
New Facilities	19,250	27,700	11,320	1,300	555	14	**60,139**
Rehabilitation & Heavy Eqpt	1,220	650	700	625	550	150	**3,895**
Shared Cost Projects	2,842	2,640	1,939	1,606	1,398	1,191	**11,616**
Technology	1,988	1,508	1,508	1,508	1,508	1,508	**9,525**
Total	**25,299**	**32,498**	**15,466**	**5,039**	**4,011**	**2,862**	**85,175**

New Facilities: This program includes the planning, design, and construction of new facilities to enhance solid waste operations. In 2021, SPU will continue to implement its Solid Waste Facilities Master Plan. The key project drivers of the New Facilities budget are the South Park Development (landfill cleanup) and the South Transfer Station operational improvements projects.

Rehabilitation and Heavy Equipment: This program includes design and construction of projects that repair and/or upgrade solid waste facilities other than the transfer stations. The key drivers of this budget level are the Midway project and new funding for the Solid Waste Comprehensive Plan Update as required by the Washington State Department of Ecology.

Shared Cost Projects: This program includes individual capital improvement projects that typically benefit multiple Lines of Business (LOB) (e.g. the Water LOB and the Drainage and Wastewater LOB) and which costs are "shared," or paid for by more than one of SPU's utility funds. Key driver for this budget includes heavy equipment purchases, which reflects the best estimate of the required fleet of trucks and heavy equipment for the transfer stations.

Technology: The Technology CIP is managed in six program areas that provide a department-wide view of technology investments to address SPU's strategic, business, and City-wide priorities. These areas are:

- Customer Contact and Billing;
- Enterprise Information Management;
- IT Infrastructure;
- Project Delivery & Performance;
- Science & System Performance; and
- Asset Information Management.

Investments in 2021 address several of SPU's key initiatives, including:

- Financial Management and Internal Controls;
- Operational Excellence and Performance Management;
- An Easy and Engaged Customer Experience;
- Data-driven Decision Support; and
- Project Delivery/Project Controls.

2021-2026 Proposed Capital Improvement Program

In 2021, SPU will continue focusing its technology spending on the highest priority business needs. These projects would primarily be within the Customer Contact and Billing Program, Project Delivery and Performance Program, as well as the Asset Information Management Program.

With the new Customer Information System (CIS) already in place, the next major projects for SPU within the Customer Contact and Billing Program include the Utilities Customer Self-Service Portal project, the Customer Contact and Billing Upgrade, CIS Workflow, and the CIS Reporting. Other projects slated would be enhancements to SPU's Enterprise Project Management System and the Development Systems Integration project, and the Maximo Business Intelligence upgrade along with other projects that have been deferred in previous years.

CIP Revenue Sources

Much of the SWF CIP is funded through bond proceeds and current cash contributions, the mix of which is determined by SWF financial policies, the overall financial health of the SWF, and the best value and equity to ratepayers. SPU issued debt in 2014, 2015, and 2016. SPU is not planning any SWF bond issuances and will use current cash contributions and existing cash on hand to pay for the CIP. Cash contributions to construction and repayment of debt come from rate-based charges to customers whose solid waste services are handled by the City's solid waste infrastructure and programs.

SPU also actively seeks grants, low-interest loans, and other funding sources whenever possible and prudent. The Solid Waste Utility is currently in the middle of a capital-intensive historic landfill remediation process and the South Recycling Center project. These projects are the primary drivers of CIP spending and have required rate increases for financing.

Summary of Upcoming Budget Issues and Challenges

Solid Waste faces logistical and financial issues as it reconstructs its primary facilities and addresses site cleanup efforts.

- Logistics: SWF is focusing on developing the South Recycling Center and must continue to use the site for trailer parking and household hazardous waste collection during construction.
- Financial Challenges: Developing the South Recycling Center along with site remediation efforts puts considerable short-term financial strain on the SWF. While the SWF is funding and building these major projects, it is working to address environmental stewardship by encouraging waste reduction and recycling, which results in declining demand for services.

Future Projects/What is on the Horizon

Once the South Park Landfill cleanup work and South Transfer Station operational improvements are completed, SPU will begin a thorough planning process to guide the future redevelopment of the South Transfer Station campus. The planning will take broader City needs into consideration before selecting a redevelopment scenario. Spending for the future development will be better defined over the next 3-5 years.

CIP Project Page Readers Note

SPU's 2020 revised budget is sometimes overstated because it includes carryforward appropriations from 2019. SPU will submit CIP carry forward abandonments as part of the Q4 Supplemental budget, which will then be reflected in the 2021-2026 Adopted CIP document.

South Recycling Center

Project No:	MC-SU-C2302	**BSL Code:**	BC-SU-C230B
Project Type:	Discrete	**BSL Name:**	New Facilities
Project Category:	Improved Facility	**Location:**	8100 2nd AVE S
Current Project Stage:	Stage 3 - Design	**Council District:**	Council District 1
Start/End Date:	2006 - 2025	**Neighborhood District:**	Greater Duwamish
Total Project Cost:	$43,202	**Urban Village:**	Greater Duwamish

This project transforms the existing South Recycling and Disposal Station to a recycling and reuse area. The existing transfer station building and associated facilities will be demolished and replaced with new recycling facilities, a reuse facility, parking and storage area for transfer trailers, and other solid waste facilities.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Solid Waste Rates	6,714	12,570	13,000	17,000	6,220	-	175	10	55,689
Total:	**6,714**	**12,570**	**13,000**	**17,000**	**6,220**	**-**	**175**	**10**	**55,689**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Solid Waste Fund	6,714	12,570	13,000	17,000	6,220	-	175	10	55,689
Total:	**6,714**	**12,570**	**13,000**	**17,000**	**6,220**	**-**	**175**	**10**	**55,689**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Miscellaneous Station Improvement

Project No:	MC-SU-C2303	**BSL Code:**	BC-SU-C230B
Project Type:	Ongoing	**BSL Name:**	New Facilities
Project Category:	Improved Facility	**Location:**	Multiple
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This project provides modifications, upgrades and wear replacement for the two new City Transfer Stations. The new facilities will require periodic capital upgrades and replacement to extend the useful life of these assets. Examples of this work include improvements to the South Transfer Station (STS) wheelwash and floor drain system to meet regulatory requirements and replacement of the wear surface on the STS tipping floor or modifications to optimize the NTS facility.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Solid Waste Rates	4,447	1,265	250	3,100	3,100	300	300	-	12,762
Total:	**4,447**	**1,265**	**250**	**3,100**	**3,100**	**300**	**300**	**-**	**12,762**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Solid Waste Fund	4,447	1,265	250	3,100	3,100	300	300	-	12,762
Total:	**4,447**	**1,265**	**250**	**3,100**	**3,100**	**300**	**300**	**-**	**12,762**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

South Park Development

Project No:	MC-SU-C2304	**BSL Code:**	BC-SU-C230B
Project Type:	Discrete	**BSL Name:**	New Facilities
Project Category:	Improved Facility	**Location:**	8100 2nd Ave S
Current Project Stage:	Stage 2 - Initiation, Project Definition, & Planning	**Council District:**	Council District 1
Start/End Date:	2007 - 2025	**Neighborhood District:**	Greater Duwamish
Total Project Cost:	$22,377	**Urban Village:**	Greater Duwamish

This project studies, plans, designs and constructs remediation of the historic South Park Landfill site to minimize environmental impacts. SPU owns a portion of the site on which the landfill once operated, and was a historic operator of the landfill at one time. This project will meet the requirements of a Washington Department of Ecology Agreed Order for study of and cleanup planning for the historic South Park Landfill.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Solid Waste Rates	5,667	6,048	6,000	7,600	2,000	1,000	80	4	28,399
Total:	**5,667**	**6,048**	**6,000**	**7,600**	**2,000**	**1,000**	**80**	**4**	**28,399**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Solid Waste Fund	5,667	6,048	6,000	7,600	2,000	1,000	80	4	28,399
Total:	**5,667**	**6,048**	**6,000**	**7,600**	**2,000**	**1,000**	**80**	**4**	**28,399**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

North Transfer Station Rebuild

Project No:	MC-SU-C2306	**BSL Code:**	BC-SU-C230B
Project Type:	Discrete	**BSL Name:**	New Facilities
Project Category:	Improved Facility	**Location:**	N. 34th St.
Current Project Stage:	Stage 6 - Closeout	**Council District:**	Council District 4
Start/End Date:		**Neighborhood District:**	Lake Union
Total Project Cost:	$111,015	**Urban Village:**	Not in an Urban Village

The project constructs a new North Recycling and Disposal Station to replace the existing, aging facility. The new facility will meet customer and employee needs, regulatory requirements, and waste management goals for at least the next 50 years. Safety, operational, and capacity concerns at the existing transfer station necessitate building a new facility. The new facility will benefit the public by providing reliable transfer of solid waste from the City and preventing the accumulation of waste and unsanitary conditions within the City.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Solid Waste Rates	110,170	845	-	-	-	-	-	-	111,015
Total:	**110,170**	**845**	**-**	**-**	**-**	**-**	**-**	**-**	**111,015**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Solid Waste Fund	110,170	845	-	-	-	-	-	-	111,015
Total:	**110,170**	**845**	**-**	**-**	**-**	**-**	**-**	**-**	**111,015**

O&M Impacts: Any O&M needed as a result of this project is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Kent Highlands

Project No:	MC-SU-C2402	**BSL Code:**	BC-SU-C240B
Project Type:	Ongoing	**BSL Name:**	Rehabilitation & Heavy Equipment
Project Category:	Improved Facility	**Location:**	Kent Highlands
Current Project Stage:	N/A	**Council District:**	Outside City of Seattle
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This program funds compliance activities related to the Kent Highlands landfill closure project. These activities include environmental and feasibility studies to demonstrate the effectiveness of the Kent Highlands landfill closure project, as well as various landfill improvements. The environmental and feasibility studies are required under the existing Consent Decree with the State Department of Ecology and validate that current environmental controls are effective and reduce the likelihood of additional capital or O&M expenditures. The landfill improvements include replacement of existing flares, drainage improvements, groundwater protection and water treatment.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Solid Waste Rates	632	-	25	25	50	25	50	-	807
Total:	**632**	**-**	**25**	**25**	**50**	**25**	**50**	**-**	**807**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Solid Waste Fund	632	-	25	25	50	25	50	-	807
Total:	**632**	**-**	**25**	**25**	**50**	**25**	**50**	**-**	**807**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Midway Landfill

Project No:	MC-SU-C2403	**BSL Code:**	BC-SU-C240B
Project Type:	Ongoing	**BSL Name:**	Rehabilitation & Heavy Equipment
Project Category:	Improved Facility	**Location:**	Kent
Current Project Stage:	N/A	**Council District:**	Outside City of Seattle
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This program funds compliance activities related to the Midway landfill closure project. These activities include environmental and feasibility studies to demonstrate the effectiveness of the Midway landfill closure project. The studies are required under the existing Consent Decree with the State Department of Ecology and validate that current environmental controls are effective and reduce the likelihood of additional capital or O&M expenditures. The flare improvements are also a regulatory requirement. To ensure that SPU maintains regulatory compliance, a smaller flare or new technology will be required. The current telemetry used to monitor the environmental control systems at the Kent Highlands Landfill and the Midway Landfill, both Superfund sites, are nearly obsolete and the equipment is no longer supported. In addition, the current system only transmits alarm conditions and does not have any data acquisition functionality. This program funds a replacement system that will allow remote data acquisition as well as alarm functionality.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Solid Waste Rates	447	8,392	1,170	600	500	500	250	-	11,859
Total:	**447**	**8,392**	**1,170**	**600**	**500**	**500**	**250**	**-**	**11,859**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Solid Waste Fund	447	8,392	1,170	600	500	500	250	-	11,859
Total:	**447**	**8,392**	**1,170**	**600**	**500**	**500**	**250**	**-**	**11,859**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

SW Comprehensive Plan Update

Project No:	MC-SU-C2407	**BSL Code:**	BC-SU-C240B
Project Type:	Ongoing	**BSL Name:**	Rehabilitation & Heavy Equipment
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

A Seattle Solid Waste Management Plan is required by Washington State Code. The plan must be updated every five years. The Comprehensive Plan guides the City's solid waste management.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Solid Waste Rates	345	-	25	25	150	100	250	150	1,045
Total:	**345**	**-**	**25**	**25**	**150**	**100**	**250**	**150**	**1,045**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Solid Waste Fund	345	-	25	25	150	100	250	150	1,045
Total:	**345**	**-**	**25**	**25**	**150**	**100**	**250**	**150**	**1,045**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Seattle Public Utilities

Water

Overview

SPU delivers an average of approximately 124 million gallons of drinking water per day to 1.5 million people and businesses in Seattle and 18 surrounding cities and water districts, plus the Cascade Water Alliance. The water system infrastructure includes:

- The Cedar and South Fork Tolt supply sources;
- Three groundwater wells;
- Two primary water treatment plants;
- 11 booster chlorination facilities;
- 325 million gallons of treated water storage;
- 31 pump stations;
- 1,823 miles of transmission and distribution system pipelines;
- Almost 200,000 meters and service connections;
- More than 21,000 distribution system valves;
- About 18,000 hydrants;
- Monitoring and control systems; and,
- Various buildings and other related facilities.

In addition to replacing and improving the supply, treatment, transmission and distribution systems, the capital program includes investments in watershed stewardship projects, Cedar River Watershed Habitat Conservation Plan implementation, water conservation programs, vehicles, heavy equipment, and technology.

Planned spending in the Water Capital Improvement Program (CIP) is $727 million over the next six years. Major projects include:

- Water system improvements associated with transportation projects, including Move Seattle, Center City Streetcar; Madison Street Bus Rapid Transit; East Marginal Way Heavy Haul Corridor; Roosevelt Eastlake Rapid Ride;
- Operational and Regional Facility construction;
- Replacement of the Bitter Lake and Lake Forest Park Reservoirs floating covers
- Addressing a slide area through which the Tolt Pipelines pass, upstream of the Tolt Treatment Plant.

The 2021-2026 Proposed CIP also includes many ongoing programs, such as improving the distribution and transmission system water mains, valves, steel storage tanks, and pump stations; watershed stewardship and conservation projects and programs; and facilities, vehicles, and heavy equipment investments. In addition, it includes initial funding for a water system seismic improvement program stemming from the recent completion of SPU's water system seismic study.

SPU funds Water capital projects through a combination of cash and issuance of bonds. The primary source of cash and debt repayment funds come from sale of water charged to retail and wholesale customers in the region. SPU completed its 2019 Water System Plan, a Washington Department of Health (WDOH) regulatory requirement. The plan was approved by King County and the Washington Department of Health in 2019. The plan includes many elements as well as providing plans for SPU's capital needs for the next 20 years.

Thematic Priorities

The overarching goal of the Water CIP is to ensure that the water system is properly maintained, upgraded, and expanded to reliably deliver high-quality, safe drinking water to customers, protect the environment, and comply with regulations. The primary themes driving the CIP in the next six years are asset preservation, health and human safety, environmental sustainability, and race and social justice.

- SPU is committed to making **asset preservation** investments to create or enhance operational efficiency. SPU uses asset management principles to determine the timing of rehabilitation or replacement of its infrastructure. Projects that fall into this category vary, ranging from water main replacement related to transportation projects to rehabilitation of steel storage facilities.

- SPU's commitment to **health and human safety** is also addressed through SPU's reservoir covering projects. Consistent with Ordinance 120899 and required by state regulators, SPU has finished replacing its open finished drinking water reservoirs with underground structures that will improve water quality and system security. Additionally, SPU will begin constructing new covers on the Lake Forest Park and Bitter Lake reservoirs to replace the existing floating covers that will have reached the end of their useful life. Finally, as a result of a recently completed seismic study, two reservoirs will remain uncovered – Roosevelt and Volunteer – and are disconnected from the drinking water system, filled with treated water and available for emergency storage needs after major emergencies such as earthquakes.

- SPU is committed to **environmental sustainability.** This can best be seen in SPU's responsibilities as outlined in the 50-year Habitat Conservation Plan (HCP), an agreement between local, state and federal agencies. The HCP seeks to ensure the long-term ecological integrity of the Cedar River Watershed, which supplies the majority of the City's drinking water. It simultaneously addresses the needs of protected wildlife species in and along the Cedar River. Investments in the regional conservation and low-income conservation programs also help in management of our natural resources, while helping customers reduce their utility bills.

- SPU is also committed to **race and social justice**. One example of this commitment is the Low Income Water Conservation Program. This ongoing program provides water use efficiency resources to the City's low-income customers to implement water conservation measures. Typical improvements consist of installing water-efficient fixtures, primarily low water use toilets, but also faucet aerators and common-area efficient clothes washers.

Project Selection Criteria

SPU identifies candidate capital projects from several sources – planning (e.g. comprehensive plans, program plans), external projects and opportunities, and emergencies or other unexpected events. Under SPU's Asset Management system, projects must be justified through a business case process that establishes that a problem or opportunity is timely and important, and that the proposed solution is superior to alternatives based on a triple bottom line analysis (economic, environmental and social) of life cycle costs and benefits. The process also recognizes that a project may be a "must do" project (e.g. required by regulation).

SPU prioritizes its capital projects into three categories – Priorities 1, 2 and 3, with 1 being the most important and critical. Some projects are part of an externally driven project. Typically, SPU lacks control over the timing of externally driven projects.

Priority rankings are based on the following set of criteria:

- **Regulatory Mandates, Legal Agreements:** The degree to which a project is driven by federal, state, and local laws, permit and regulatory requirements, and consent decrees; as well as by legal agreements with public and private parties. Examples of highly ranked projects in this category include the reservoir covering programs and the Habitat Conservation Program.

- **External Drivers:** SPU's responsiveness to, or engagement with, projects of other Departments or Jurisdictions, and the specific mandates of the City Council and Mayor. Examples of highly ranked projects in this category include SR 520 Rest of the West phase and Center City Streetcar.

- **Infrastructure:** How a project addresses infrastructure conditions or vulnerabilities. Examples of highly ranked projects in this category include the Watermain Rehabilitation, Distribution System Improvements and Tank Improvements programs.

- **Level of Service:** The importance of a project in providing or improving services to customers. Examples of highly ranked projects in this category include the Water Infrastructure – New Taps and Service Renewals programs.

- **Other Factors:** Other important factors include high net present value or cost-effectiveness, social or environmental benefits not otherwise captured, a project already in progress or near completion, limited time opportunity, demonstration projects, community visibility, outside funding.

Every project is rated against each criterion. Criteria ratings are then considered in determining an overall project priority ranking, using expert judgment (rather than a formula). Priority rankings for the CIP are determined by the leads for each Line of Business (LOB), with review by key internal stakeholders. The ranking scheme and criteria are the same for all LOBs and are approved by the SPU GM/CEO and Asset Management Committee. Project priority rankings are used to clarify and document which projects are most important (and why), to help determine which projects at the margin will be included or excluded (or deferred) from the CIP, and which projects should receive priority attention if a staff or financial resource constraint should arise.

CIP Spending by Major Category

(In '000s; total may not sum due to rounding)

Water Fund	2021	2022	2023	2024	2025	2026	Total
Distribution	31,095	39,121	40,891	50,752	58,247	61,865	281,973
Transmission	20,129	10,560	8,809	17,325	18,942	14,664	90,430
Watershed Stewardship	298	431	478	1,037	317	529	3,090
Water Quality & Treatment	13,214	5,516	10,375	26,738	6,200	1,100	63,143
Water Resources	12,031	8,405	6,968	3,308	2,722	3,362	36,797
Habitat Conservation Program	1,474	1,214	1,822	1,716	1,150	1,033	8,409
Shared Cost Projects	33,474	35,913	42,776	44,608	32,734	28,199	217,703
Technology	5,062	4,244	4,244	4,244	3,404	4,244	25,439
Grand Total	**116,778**	**105,404**	**116,363**	**149,727**	**123,715**	**114,996**	**726,983**

Distribution: Projects and programs in this category relate to rehabilitation and improvements to the City's water mains and appurtenances, water storage tanks, pump stations, and other facilities that are part of the system that distributes treated water throughout the City of Seattle and to retail customers outside of the City.

Decreases in the **Distribution BCL** in 2021 and 2022 are primarily due to shifting tank improvements to later years in the 6-year capital plan. It is offset by increased investments in water main extension projects at multiple worksites across the city. In 2022 to 2026, funding increases to rehabilitate and replace water mains, because more of this large asset class is reaching the end of its service life.

Transmission: The purpose of this program category is to rehabilitate and improve the City's large transmission pipelines that bring untreated water to the treatment facilities and convey treated water from the treatment facilities to Seattle and to other local utilities that purchase a portion of SPU's supply for their customers.

Increases in the **Transmission BCL** in 2021 and 2022 are primarily due to delay of two projects caused by coordination with the SR520 improvements by the State, and property rights issues. Increases in 2024-2026 are caused by initiation of the new transmission system seismic improvements program.

Watershed Stewardship: Projects and programs in this category improve protection of our sources of drinking water, provide habitat protection and restoration, sustain the environment, and enhance environmental quality, both locally and regionally. Most of the projects in this program category are located within the Cedar and Tolt River municipal watersheds.

- The Cedar River Municipal Watershed is 90,638 acres of land owned by the City of Seattle and provides about 65% of the drinking water used by 1.5 million people in the greater Seattle area supplied by SPU. The City of Seattle is required by law to maintain a clean drinking water supply. To that end, the City restricts public access and management is guided by a Habitat Conservation Plan. The Cedar River Watershed is an unfiltered surface water supply which produces some of the best water in the world.

- The South Fork Tolt River Watershed is the second supply watershed in SPU's freshwater supply system. Located in the foothills of the Cascades in east King County, it first came on-line in 1964, and since 1989 has also supported a small Seattle City Light hydro-electric facility. The Tolt Treatment Facilities, which includes filtration, can provide up to 120 million gallons of drinking water per day.

Decreases in the **Watershed Stewardship BCL** in 2021 and 2022 due largely to slow down in petroleum contamination remediation at the BNSF Railway Switching Yard site in the Cedar River Municipal Watershed. Additional new contamination soil sampling followed by discussion and negotiation with BNFSF in 2021 makes acquisition or remediation expenses unlikely until at least 2022. Increase in 2022 is due to a new project to complete construction of fish passage at road crossings in the Cedar River Watershed. The CRW Fish Passage infrastructure program is required to satisfy State regulatory requirements for fish passage. In addition to providing fish passage, this program will reduce the potential for excessive sedimentation, catastrophic infrastructure (i.e. forest road) failure, and impacts to drinking water quality.

Water Quality and Treatment: The purpose of this program category is to construct, rehabilitate or improve water treatment facilities, and cover the remaining open water reservoirs. State and federal drinking water regulations and public health protection are key drivers of investments in this program category. To comply with regulations, SPU has invested hundreds of millions of dollars in building two new primary treatment facilities and covering two and burying five reservoirs that contain already treated water that is distributed directly to Seattle retail and wholesale customers for drinking purposes.

The shift in the **Water Quality & Treatment BCL** in 2021 and 2022 due to an updated cashflow projection for the Lake Forest Park Reservoir Covering Project and Bitter Lake Reservoir Covering Project. The plan is for another floating cover at Lake Forest Park instead of the aluminum roof previously considered. Construction of the Lake Forest Park Reservoir replacement cover is targeted to begin in 2021. Bitter Lake Reservoir cover replacement is anticipated to start towards the end of 2023.

Water Resources: The purpose of this program category is to manage our water resources to meet anticipated demands and in-stream flow requirements – the amount of water provided to the river to support aquatic habitat, wetlands, riparian vegetation, and water quality – and to promote residential and commercial water conservation. The requirements for in-stream flows are detailed in agreements with state and federal agencies and include provisions for minimum stream flows in the Cedar and South Fork Tolt Rivers. Examples of the types of projects in this category include the Dam Safety Program and Sockeye Broodstock Weir and other improvements associated with the hatchery and fish ladder.

Decreases in the **Water Resources BCL** in 2021 and 2022 are due to decrease in the Broodstock Collection Facility Retrofit being delayed. This decrease in 2021 is offset by increases related to dam safety projects including the Tolt Valve 15 replacement, an upgrade required by the Federal Energy Regulatory

Commission (FERC). The increase in 2022 is due to dam safety projects such as the Tolt Early Warning System Upgrade and Tolt Debris Boom, which are both to comply with FERC.

Habitat Conservation Program: This program category includes projects and programs directly related to implementation of the Cedar River Watershed Habitat Conservation Plan. The Habitat Conservation Plan benefits the utility and the ratepayers it serves by providing legal certainty under the Endangered Species Act for the City's continued operations within the Cedar River Watershed, which supplies 65% of the SPU's drinking water. The Habitat Conservation Program requires SPU to invest $100 million over 50 years, with $60 million in the first decade, on approximately 30 capital projects and 60 O&M activities in three areas: management of in-stream flows for people and fish, forest and land conservation activities, and mitigation for the blockage of salmon and steelhead fish as they return to the Cedar River to spawn. The Water Fund's CIP projects in this area are grouped into eight categories: road improvements and decommissioning, stream and riparian restoration, upland forest restoration, Landsburg fish passage, Cedar River sockeye hatchery, improvements to the Ballard Locks for fish passage and water conservation, fish habitat protection and restoration in the lower Cedar River below the municipal watershed boundary, and evaluation of Cedar permanent dead storage in Chester Morse Lake.

Decreases in the **Habitat Conservation Program BCL** in 2021 and 2022 are due to the Downstream Fish Habitat program. These funds will be expended on land acquisition and restoration to improve salmon habitat as part of the City's Cedar River Habitat Conservation Program (HCP) commitments. The decrease in 2022 is due to less work plan for watershed road decommissioning and transitioning the fish passage program to the Watershed Stewardship BCL (see notes under C130 – Watershed Stewardship).

Shared Cost Projects: This program includes individual capital improvement projects which typically benefit multiple lines of business (e.g. the water line of business and the drainage and wastewater line of business) and whose costs are "shared," or paid for, by more than one of SPU's utility funds. For the next six years, the Shared Cost program includes funding for several interdepartmental programs and projects including Move Seattle, Alaskan Way Viaduct and Seawall Replacement. Funding is also included for SPU's Heavy Equipment Purchases and several smaller projects.

Decrease in the **Shared Cost Projects BCL** in 2021 and 2022 is primarily due to the East Marginal Way Heavy Haul Corridor and the Center City Streetcar delay to outyears

Technology: The Technology capital portfolio is managed in six program areas, which provide a department-wide view of technology investments to address SPU's strategic, business, and City-wide priorities. These areas are:

- Customer Contact and Billing
- Enterprise Information Management
- IT Infrastructure
- Project Delivery & Performance
- Science & System Performance
- Asset Information Management

Investments in 2021 address several of SPU's key initiatives, including:

- Financial Management and Internal Controls
- Operational Excellence and Performance Management

- An Easy and Engaged Customer Experience
- Data-driven Decision Support
- Project Delivery/Project Controls

In 2021, SPU will focus its technology spending on the highest priority business needs. These projects would primarily be within the Customer Contact and Billing Program, Project Delivery and Performance Program, as well as the Asset Information Management Program.

With the New Customer Information System already in place, the next major projects for SPU within the Customer Contact and Billing Program would be the Utilities CSS Portal project as well as other projects such as the CCB & MDM Upgrade, CIS Workflow, and the CIS Reporting. Other projects slated would be enhancements to SPU's Enterprise Project Management System (EPMS), as well as the Development Systems Integration project, as well as Mobile Work Management, along with other projects that have been deferred in previous years

CIP Revenue Sources

SPU's Water CIP is funded largely by Water ratepayers. About 71% of the Water Fund's Operating revenues come from retail ratepayers, split approximately evenly between residential and commercial customers. Another 20% of the Water Fund's overall revenues come from wholesale purveyors who serve surrounding jurisdictions. The remaining 9% consists of non-rate revenue, which include such items as tap fees received. SPU issues bonds, serviced by ratepayers, which in the current period covers 50% of the CIP, with the remainder funded by cash, i.e.: directly by ratepayer revenue.

SPU actively seeks grants, low interest loans, and other funding sources whenever possible. And, as mentioned above, SPU also receives payments from developers that are intended to offset the cost of installing new taps when they connect newly constructed buildings to SPU watermains. These "tap fees" are a volatile revenue source, trending with the construction-related sectors of the economy.

Summary of Upcoming Budget Issues and Challenges

These important issues create financial challenges and opportunities for the Water Fund in the future.

Water Conservation: The City of Seattle, Seattle residents and businesses, and Seattle's wholesale water partners have worked together to reduce water consumption. As a result, consumption has declined since the 1980's and is projected to flatten out. In 2018, consumption was 30% below the peak of 1984, despite serving a larger population. Seattle currently has some of the lowest per capita water consumption in the nation. While this accomplishment helps contribute to a sustainable future for the region, it puts financial pressure on the utility because fixed costs, including the costs of the CIP, need to be distributed across fewer units of water sold. This trend also puts pressure on SPU management and employees to deliver services as efficiently as possible. In the future, it may also influence water rate design.

Transitioning from Major Projects toward Asset Management: The Water Fund is transitioning from a period of building large capital projects, in response to regulatory requirements, to a time of physical infrastructure rehabilitation. Past investments include water treatment facilities for the Tolt and Cedar water supplies, coverings for seven open reservoirs in response to federal/state regulations, construction of a second pipeline for the Tolt system, and investments to meet federal requirements embodied in the Cedar River Watershed Habitat Conservation Plan. These investments helped secure the supply and

distribution of high-quality drinking water and provide appropriate stewardship of the watersheds consistent with federal and state requirements.

The City of Seattle is now better positioned than many water utilities in the nation in terms of regulatory compliance. Residents, businesses and rate payers will benefit from these investments for years to come. Although the focus will shift from major projects to physical infrastructure rehabilitation, the utility will be paying debt service over the next several budget cycles on the bonds that were issued for these major projects. Against the backdrop of these trends, the 2021-2026 Water CIP has been developed to:

- Provide for water system modifications associated with various Seattle and regional transportation projects.
- Recognize the need to look harder at the water system's resiliency in a major earthquake event and begin to make strategic investments to reduce risk.
- Preserve the transmission and distribution systems through careful investment in aging infrastructure renewal,
- Provide stewardship of the watersheds, to ensure a reliable source of high-quality drinking water;
- Comply with federal and state regulations governing water quality, system reliability, and habitat protection in the watersheds in which SPU operates; and
- Prioritize projects to deliver on infrastructure and regulatory requirements within the limited resources of the Water Fund.

Future Projects/What is on the Horizon

The Water CIP has completed a multi-decade period of investments in major infrastructure projects. These projects have positioned SPU to meet drinking water quality and environmental regulations. Projects have included the Tolt and Cedar Water Treatment Facilities, Tolt Pipeline 2, Reservoir Covering Program, the Cedar River Watershed HCP, the Chester Morse Lake Pump Plant Project, and a new Water Quality Laboratory. SPU has also made a major reinvestment in the Supervisory Control and Data Acquisition System which is used to monitor and control the regional and retail water system. However, these investments have also led to increasing debt service payments that constrain future budgets.

The 6-year CIP funds the work to replace floating covers at the Lake Forest Park and Bitter Lake reservoirs address the Tolt Pipelines slide area
and install a new 48-inch spill valve in the South Fork Tolt Dam. Beyond these projects, emphasis will be on dam safety projects, asset management-based rehabilitation and replacement of distribution system infrastructure (e.g. mains, valves, hydrants, meters), as well as water system infrastructure improvements related to transportation projects, such as the Move Seattle Levy.

Additionally, SPU recognizes the need to look harder at the water system's resiliency in a major earthquake event and begin to make strategic investments to reduce risk. SPU recently completed a seismic analysis that defined recovery time to agreed levels of service and developed a prioritized list of recommended investments to improve resiliency. Those capital and operational and maintenance improvements will be developed over the course of the next several decades, and initial funding to begin implementation of those improvements is included in this capital program.

CIP Project Page Readers Note

SPU's 2020 revised budget is sometimes overstated because it includes carryforward appropriations from 2019. SPU will submit CIP carry forward abandonments as part of the Q4 Supplemental budget, which will then be reflected in the 2021-2026 Adopted CIP document.

Water Infrastructure-Service Renewal

Project No:	MC-SU-C1109	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Rehabilitation or Restoration	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project replaces existing plastic or galvanized water services in the City's water distribution system. Service replacement may occur as a result of leaking, failing, or to reduce damage in case of failure of the water service. This project improves Seattle's water system and extends the life of the system.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	10,662	6,396	6,193	6,317	6,443	6,572	6,704	6,838	56,125
Total:	**10,662**	**6,396**	**6,193**	**6,317**	**6,443**	**6,572**	**6,704**	**6,838**	**56,125**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	10,662	6,396	6,193	6,317	6,443	6,572	6,704	6,838	56,125
Total:	**10,662**	**6,396**	**6,193**	**6,317**	**6,443**	**6,572**	**6,704**	**6,838**	**56,125**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Water Infrastructure-Hydrant Replace/Relocate

Project No:	MC-SU-C1110	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Rehabilitation or Restoration	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project renews or replaces existing hydrants in the City's water distribution system. In general, hydrant renewal or replacement may occur as a result of hydrant malfunction, catastrophic failure due to vehicle damage, or to meet SPU criticality criteria such as spacing, location, cost, opportunity projects, or flow and pressure problems. This project improves access to fire hydrants for the Seattle Fire Department (SFD) and helps to reduce the damage as a result of fire by locating fire hydrants in alternate or additional locations.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	715	125	230	235	239	244	249	254	2,291
Total:	**715**	**125**	**230**	**235**	**239**	**244**	**249**	**254**	**2,291**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	715	125	230	235	239	244	249	254	2,291
Total:	**715**	**125**	**230**	**235**	**239**	**244**	**249**	**254**	**2,291**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Water Infrastructure-Water Main Extensions

Project No:	MC-SU-C1111	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	New Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project assists developers by adding new water mains to the water system in order to serve new residential and commercial developments. Most of the costs are recovered through standard charges. The benefit of this project is that water service is provided to new housing and businesses throughout Seattle.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	2,766	134	1,977	2,016	2,057	2,098	2,140	2,183	15,372
Total:	**2,766**	**134**	**1,977**	**2,016**	**2,057**	**2,098**	**2,140**	**2,183**	**15,372**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	2,766	134	1,977	2,016	2,057	2,098	2,140	2,183	15,372
Total:	**2,766**	**134**	**1,977**	**2,016**	**2,057**	**2,098**	**2,140**	**2,183**	**15,372**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Water Infrastructure-New Hydrants

Project No:	MC-SU-C1112	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	New Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project installs new hydrants in the City's water distribution system. In general, new hydrants are installed to meet service requests made by private property owners and to comply with Washington Administrative Code (WAC) or Seattle Fire Department (SFD) requirements. This project helps to reduce the damage as a result of fire by locating new fire hydrants throughout the City's direct service area.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	202	-	14	14	15	15	16	16	291
Total:	**202**	**-**	**14**	**14**	**15**	**15**	**16**	**16**	**291**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	202	-	14	14	15	15	16	16	291
Total:	**202**	**-**	**14**	**14**	**15**	**15**	**16**	**16**	**291**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Water Infrastructure-New Taps

Project No:	MC-SU-C1113	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	New Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project installs new drinking water services throughout the City of Seattle. This project provides new connections to existing water mains with no interruption of service to adjacent existing customers, and the installation of metered water service lines from the new tap to the new customer's property lines. This project meets City responsibility for new service connections in the Seattle Municipal Code (SMC) to provide reliable drinking water supply to customers.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	16,392	6,362	7,283	7,428	7,428	7,577	7,883	8,000	68,353
Total:	**16,392**	**6,362**	**7,283**	**7,428**	**7,428**	**7,577**	**7,883**	**8,000**	**68,353**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	16,392	6,362	7,283	7,428	7,428	7,577	7,883	8,000	68,353
Total:	**16,392**	**6,362**	**7,283**	**7,428**	**7,428**	**7,577**	**7,883**	**8,000**	**68,353**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Distribution System Improvements

Project No:	MC-SU-C1128	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project improves service reliability, pressure, capacity, and fire flow in the City's water distribution system. Typical improvements may include, but are not limited to, booster pump station installation, creation of new service zones, and tank elevation or replacement, as well as additional water main pipelines and pressure reducing valves. These improvements to service levels meet Washington Department of Health (DOH) regulations and SPU's Distribution System Pressure Policy to provide greater than 20 psi service pressure. These improvements provide higher flow of water for fire protection which improves public safety and results in smaller and shorter fires.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	42	4,993	2,350	2,163	2,010	4,002	4,000	4,000	23,560
Total:	**42**	**4,993**	**2,350**	**2,163**	**2,010**	**4,002**	**4,000**	**4,000**	**23,560**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	42	4,993	2,350	2,163	2,010	4,002	4,000	4,000	23,560
Total:	**42**	**4,993**	**2,350**	**2,163**	**2,010**	**4,002**	**4,000**	**4,000**	**23,560**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Watermain Rehabilitation

Project No:	MC-SU-C1129	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Improved Facility	**Location:**	Regional
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project replaces or rehabilitates existing water mains in Seattle. Replacements occur when leaks and breaks become too frequent and the cost of ongoing repairs is no longer cost effective. The benefits of this program can include improved service reliability, fire flow, water quality and lower maintenance costs. These benefits vary depending on the specific water main and site conditions.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	22,823	12,808	8,715	13,730	14,616	20,317	25,300	30,306	148,615
Total:	**22,823**	**12,808**	**8,715**	**13,730**	**14,616**	**20,317**	**25,300**	**30,306**	**148,615**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	22,823	12,808	8,715	13,730	14,616	20,317	25,300	30,306	148,615
Total:	**22,823**	**12,808**	**8,715**	**13,730**	**14,616**	**20,317**	**25,300**	**30,306**	**148,615**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Multiple Utility Relocation

Project No:	MC-SU-C1133	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project provides funding for necessary modifications to the location and depth of water pipes when they come into conflict with street improvements or other utility projects. The benefit is continued water service to customers while accommodating transportation and other needs in the street right-of-way.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	1	997	500	500	500	500	500	500	3,998
Total:	**1**	**997**	**500**	**500**	**500**	**500**	**500**	**500**	**3,998**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	1	997	500	500	500	500	500	500	3,998
Total:	**1**	**997**	**500**	**500**	**500**	**500**	**500**	**500**	**3,998**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Tank Improvements

Project No:	MC-SU-C1134	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project implements water quality, seismic, and other improvements to steel water tanks in Seattle. Functional water tanks are essential to public health protection as they assure that the distribution system is under pressure at all times, even when pump stations or control valves malfunction. Depressurization of the water system may result in siphoning back contaminants from faulty private systems and from the ground into the water pipes.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	2,293	6,566	529	620	2,206	6,375	5,893	4,695	29,177
Total:	**2,293**	**6,566**	**529**	**620**	**2,206**	**6,375**	**5,893**	**4,695**	**29,177**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	2,293	6,566	529	620	2,206	6,375	5,893	4,695	29,177
Total:	**2,293**	**6,566**	**529**	**620**	**2,206**	**6,375**	**5,893**	**4,695**	**29,177**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Pump Station Improvements

Project No:	MC-SU-C1135	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project makes improvements to water pump stations by replacing electric motors, starters, control systems, and other elements. The benefit is improved reliability of water pump stations which in turn reduces the likelihood of large scale water outages.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	722	1,869	1,296	3,329	846	500	500	500	9,562
Total:	**722**	**1,869**	**1,296**	**3,329**	**846**	**500**	**500**	**500**	**9,562**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	722	1,869	1,296	3,329	846	500	500	500	9,562
Total:	**722**	**1,869**	**1,296**	**3,329**	**846**	**500**	**500**	**500**	**9,562**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Distribution System In-Line Gate Valve

Project No:	MC-SU-C1136	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project replaces line valves in the water distribution system throughout the City of Seattle that fail or are obsolete due to age or lack of replacement parts. The replacement of these gate valves extends the useful life of the water main and restores the performance of the water distribution system. This ongoing project also adds valves within the system to enhance system performance, enhance operational control, and reduce the number of customers whose service is interrupted during a water main shut down.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	1,548	78	366	373	381	400	408	416	3,969
Total:	**1,548**	**78**	**366**	**373**	**381**	**400**	**408**	**416**	**3,969**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	1,548	78	366	373	381	400	408	416	3,969
Total:	**1,548**	**78**	**366**	**373**	**381**	**400**	**408**	**416**	**3,969**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Chamber Upgrades-Distribution

Project No:	MC-SU-C1137	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project improves access to water distribution chambers throughout the water distribution system. The replacement and/or enlargement of the entrance to distribution chambers improves the health and safety of workers who need to access chambers and meets Occupational, Safety, and Health Administration (OSHA) and Washington Safety and Health Administration (WSHA) safety and health requirements.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	255	59	30	31	32	33	33	33	506
Total:	**255**	**59**	**30**	**31**	**32**	**33**	**33**	**33**	**506**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	255	59	30	31	32	33	33	33	506
Total:	**255**	**59**	**30**	**31**	**32**	**33**	**33**	**33**	**506**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Distribution Infrastructure

Project No:	MC-SU-C1138	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project provides funding for modifications and relocations of existing Distribution System assets resulting from third party project impacts to Distribution System infrastructure located in the right-of-way or on public property. The costs are recovered from third parties and primarily other public utilities and agencies through Memorandums of Agreement and standard charges. This project covers all Distribution System modifications and relocations that are funded by third parties excluding Water main Extension project projects. The benefit of this project is accommodation of third party development by relocating or modifying existing Distribution System infrastructure, while retaining a Distribution System that continues to provide cost effective service to the ratepayer.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	44	209	113	115	118	120	122	125	965
Total:	**44**	**209**	**113**	**115**	**118**	**120**	**122**	**125**	**965**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	44	209	113	115	118	120	122	125	965
Total:	**44**	**209**	**113**	**115**	**118**	**120**	**122**	**125**	**965**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Distribution System Seismic Improvements

Project No:	MC-SU-C1139	**BSL Code:**	BC-SU-C110B
Project Type:	Ongoing	**BSL Name:**	Distribution
Project Category:	Rehabilitation or Restoration	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project upgrade critical distribution facilities that are seismically vulnerable and will remain functional after a major earthquake. Facilities that will be upgraded include water storage reservoirs and tanks, pump stations, pipelines and support facilities. The upgrades are scheduled to occur over a 50-year plus time frame.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	-	750	1,500	2,250	4,000	2,000	4,500	4,000	19,000
Total:	**-**	**750**	**1,500**	**2,250**	**4,000**	**2,000**	**4,500**	**4,000**	**19,000**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	-	750	1,500	2,250	4,000	2,000	4,500	4,000	19,000
Total:	**-**	**750**	**1,500**	**2,250**	**4,000**	**2,000**	**4,500**	**4,000**	**19,000**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Water System Dewatering

Project No:	MC-SU-C1205	**BSL Code:**	BC-SU-C120B
Project Type:	Ongoing	**BSL Name:**	Transmission
Project Category:	Improved Facility	**Location:**	Regional
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project improves structures used to empty the water from larger pipelines when necessary for inspection or repair. The new structures better control the impact of the water discharged to the environment and comply with current environmental regulations.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	25	54	35	36	40	45	50	55	340
Total:	**25**	**54**	**35**	**36**	**40**	**45**	**50**	**55**	**340**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	25	54	35	36	40	45	50	55	340
Total:	**25**	**54**	**35**	**36**	**40**	**45**	**50**	**55**	**340**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Purveyor Meters Replace-SPU

Project No:	MC-SU-C1206	**BSL Code:**	BC-SU-C120B
Project Type:	Ongoing	**BSL Name:**	Transmission
Project Category:	Improved Facility	**Location:**	Regional
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project installs new meters for Seattle's wholesale customers at the customer's request. In addition, existing meters are upgraded to current safety standards. The benefits are accurate metering and billing for Seattle's wholesale customers while meeting their water needs.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	107	360	100	100	100	110	120	130	1,127
Total:	**107**	**360**	**100**	**100**	**100**	**110**	**120**	**130**	**1,127**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	107	360	100	100	100	110	120	130	1,127
Total:	**107**	**360**	**100**	**100**	**100**	**110**	**120**	**130**	**1,127**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Transmission Pipelines Rehab

Project No:	MC-SU-C1207	**BSL Code:**	BC-SU-C120B
Project Type:	Ongoing	**BSL Name:**	Transmission
Project Category:	Improved Facility	**Location:**	Regional
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project rehabilitates and upgrades water pipes and associated structures in the City of Seattle's transmission system. It assists SPU in providing agreed-upon pressure and flow for wholesale customers, limiting drinking water supply outages, and meeting applicable regulatory requirements of the Washington Department of Health.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	3,548	17,384	15,186	5,114	1,680	1,709	1,750	1,800	48,172
Total:	**3,548**	**17,384**	**15,186**	**5,114**	**1,680**	**1,709**	**1,750**	**1,800**	**48,172**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	3,548	17,384	15,186	5,114	1,680	1,709	1,750	1,800	48,172
Total:	**3,548**	**17,384**	**15,186**	**5,114**	**1,680**	**1,709**	**1,750**	**1,800**	**48,172**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Cathodic Protection

Project No:	MC-SU-C1208	**BSL Code:**	BC-SU-C120B
Project Type:	Ongoing	**BSL Name:**	Transmission
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project installs corrosion protection systems that prevent external corrosion of water transmission pipelines located in Seattle and throughout King County. The cathodic protection systems extend the life of buried pipelines made of ductile iron, steel, and concrete cylinder pipe.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	3,457	7,081	3,073	2,770	3,044	611	3,867	519	24,423
Total:	**3,457**	**7,081**	**3,073**	**2,770**	**3,044**	**611**	**3,867**	**519**	**24,423**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	3,457	7,081	3,073	2,770	3,044	611	3,867	519	24,423
Total:	**3,457**	**7,081**	**3,073**	**2,770**	**3,044**	**611**	**3,867**	**519**	**24,423**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Replace Air Valve Chambers

Project No:	MC-SU-C1209	**BSL Code:**	BC-SU-C120B
Project Type:	Ongoing	**BSL Name:**	Transmission
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project improves access to the chambers located throughout the transmission water system. The replacement and enlargement of the entrance to transmission chambers increase the safety for workers that need to enter the chambers twice per year.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	1,083	254	135	140	145	150	155	160	2,221
Total:	**1,083**	**254**	**135**	**140**	**145**	**150**	**155**	**160**	**2,221**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	1,083	254	135	140	145	150	155	160	2,221
Total:	**1,083**	**254**	**135**	**140**	**145**	**150**	**155**	**160**	**2,221**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Transmission System Seismic Improvements

Project No:	MC-SU-C1210	**BSL Code:**	BC-SU-C120B
Project Type:	Ongoing	**BSL Name:**	Transmission
Project Category:	Rehabilitation or Restoration	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project upgrade transmission system infrastructure that is seismically vulnerable and will remain functional after a major earthquake. Vulnerable transmission pipelines, reservoirs and pump stations will be upgraded. These upgrades will be completed over a 50-year time period.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	-	250	1,600	2,400	3,800	14,700	13,000	12,000	47,750
Total:	**-**	**250**	**1,600**	**2,400**	**3,800**	**14,700**	**13,000**	**12,000**	**47,750**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	-	250	1,600	2,400	3,800	14,700	13,000	12,000	47,750
Total:	**-**	**250**	**1,600**	**2,400**	**3,800**	**14,700**	**13,000**	**12,000**	**47,750**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Environmental Stewardship

Project No:	MC-SU-C1301	**BSL Code:**	BC-SU-C130B
Project Type:	Ongoing	**BSL Name:**	Watershed Stewardship
Project Category:	Improved Facility	**Location:**	Citywide
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides improvements to facilities and remediation for identified soil contamination at various locations in City watershed areas, railroad right-of-way, and transmission pipelines.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	618	-	283	431	468	937	182	178	3,097
Total:	**618**	**-**	**283**	**431**	**468**	**937**	**182**	**178**	**3,097**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	618	-	283	431	468	937	182	178	3,097
Total:	**618**	**-**	**283**	**431**	**468**	**937**	**182**	**178**	**3,097**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Cedar Bridges

Project No:	MC-SU-C1307	**BSL Code:**	BC-SU-C130B
Project Type:	Ongoing	**BSL Name:**	Watershed Stewardship
Project Category:	Improved Facility	**Location:**	Cedar River Watershed
Current Project Stage:	N/A	**Council District:**	Outside City of Seattle
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project replaces aging bridges and related structures, such as abutments, asphalt approaches, and guardrails in the Cedar River Watershed. This project improves aging bridge assets on priority roads in the watershed transportation system to provide City employees, City contractors, and visitors with safe and adequate access to City water supply and hydroelectric assets while minimizing and reducing environmental impacts over time. Work in this project also maintains compliance with state laws, safety and environmental regulations, and tribal access agreements including Washington Department of Natural Resources (WDNR) forest practice regulations, and Washington Department of Health (DOH) Watershed Protection Plan regulations.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	528	2,688	15	-	10	100	135	351	3,827
Total:	**528**	**2,688**	**15**	**-**	**10**	**100**	**135**	**351**	**3,827**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	528	2,688	15	-	10	100	135	351	3,827
Total:	**528**	**2,688**	**15**	**-**	**10**	**100**	**135**	**351**	**3,827**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Tolt Bridges

Project No:	MC-SU-C1308	**BSL Code:**	BC-SU-C130B
Project Type:	Discrete	**BSL Name:**	Watershed Stewardship
Project Category:	Improved Facility	**Location:**	Tolt River Watershed
Current Project Stage:	Stage 5 - Construction	**Council District:**	Outside City of Seattle
Start/End Date:	2004 - 2020	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	$1	**Urban Village:**	Not in an Urban Village

This project replaces aging bridges and related structures, such as abutments, asphalt approaches, and guardrails in the Cedar River Watershed. This project improves aging bridge assets on priority roads in the watershed transportation system to provide City employees, City contractors, and visitors with safe and adequate access to City water supply and hydroelectric assets while minimizing and reducing environmental impacts over time. Work in this project also maintains compliance with state laws, safety and environmental regulations, and tribal access agreements including Washington Department of Natural Resources (WDNR) forest practice regulations, and Washington Department of Health (DOH) Watershed Protection Plan regulations.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	-	1	-	-	-	-	-	-	1
Total:	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**1**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	-	1	-	-	-	-	-	-	1
Total:	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**1**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Beacon Reservoir Seismic

Project No:	MC-SU-C1408	**BSL Code:**	BC-SU-C140B
Project Type:	Discrete	**BSL Name:**	Water Quality & Treatment
Project Category:	Improved Facility	**Location:**	S Spokane St and Beacon Ave S
Current Project Stage:	Stage 5 - Construction	**Council District:**	Council District 2
Start/End Date:	2001 - 2019	**Neighborhood District:**	Greater Duwamish
Total Project Cost:	$11,601	**Urban Village:**	Not in an Urban Village

This project includes Seismic Retrofits at Beacon Reservoir using the Soil-Structure Interaction Seismic Analysis approach for design to determine its seismic performance during ground shaking and to assess whether or not a seismic deficiency exists.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	11,342	259	-	-	-	-	-	-	11,601
Total:	**11,342**	**259**	**-**	**-**	**-**	**-**	**-**	**-**	**11,601**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	11,342	259	-	-	-	-	-	-	11,601
Total:	**11,342**	**259**	**-**	**-**	**-**	**-**	**-**	**-**	**11,601**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Treatment Facility/Water Quality Improvements

Project No:	MC-SU-C1413	**BSL Code:**	BC-SU-C140B
Project Type:	Ongoing	**BSL Name:**	Water Quality & Treatment
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides construction of various smaller-scale water quality and treatment facility rehabilitation and improvement projects that may develop on short notice over the course of each year. It enhances SPU's ability to address water system improvement needs that relate to public health protection and drinking water regulatory compliance.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	986	530	1,967	2,957	1,102	735	600	600	9,477
Total:	**986**	**530**	**1,967**	**2,957**	**1,102**	**735**	**600**	**600**	**9,477**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	986	530	1,967	2,957	1,102	735	600	600	9,477
Total:	**986**	**530**	**1,967**	**2,957**	**1,102**	**735**	**600**	**600**	**9,477**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Reservoir Covering-Lake Forest

Project No:	MC-SU-C1418	**BSL Code:**	BC-SU-C140B
Project Type:	Discrete	**BSL Name:**	Water Quality & Treatment
Project Category:	Improved Facility	**Location:**	Lake Forest Park
Current Project Stage:	Stage 3 - Design	**Council District:**	Outside City of Seattle
Start/End Date:	2013 - 2022	**Neighborhood District:**	Outside City of Seattle
Total Project Cost:	$20,519	**Urban Village:**	Not in an Urban Village

This project addresses the need for a new cover on Lake Forest Park Reservoir once it has reached the end of its useful life. The project will evaluate options for a new cover, including replacing the existing floating Hypolan cover with a similar design. A new cover will be designed and constructed to maintain and improve the water quality protection and security enhancement functions of the existing cover.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	933	9,526	10,047	59	173	3	-	-	20,741
Total:	**933**	**9,526**	**10,047**	**59**	**173**	**3**	**-**	**-**	**20,741**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	933	9,526	10,047	59	173	3	-	-	20,741
Total:	**933**	**9,526**	**10,047**	**59**	**173**	**3**	**-**	**-**	**20,741**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Reservoir Covering-Bitter Lake

Project No:	MC-SU-C1419	**BSL Code:**	BC-SU-C140B
Project Type:	Discrete	**BSL Name:**	Water Quality & Treatment
Project Category:	Improved Facility	**Location:**	N 143rd St and Linden Ave N
Current Project Stage:	Stage 3 - Design	**Council District:**	Council District 5
Start/End Date:	2013 - 2025	**Neighborhood District:**	Northwest
Total Project Cost:	$45,094	**Urban Village:**	Not in an Urban Village

This project addresses the need for a new cover on Bitter Lake Reservoir once the existing floating cover has reached the end of its useful life. Replacing the existing structure with a new hard covered structure within the same footprint will be one of the options considered. A new cover will be designed and constructed to improve and maintain the water quality protection and security enhancement functions of the existing cover.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	113	681	1,200	2,500	9,100	26,000	5,600	500	45,694
Total:	**113**	**681**	**1,200**	**2,500**	**9,100**	**26,000**	**5,600**	**500**	**45,694**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	113	681	1,200	2,500	9,100	26,000	5,600	500	45,694
Total:	**113**	**681**	**1,200**	**2,500**	**9,100**	**26,000**	**5,600**	**500**	**45,694**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Regional Water Conservation

Project No:	MC-SU-C1504	**BSL Code:**	BC-SU-C150B
Project Type:	Ongoing	**BSL Name:**	Water Resources
Project Category:	Improved Facility	**Location:**	Citywide and Regional
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project provides customer incentives for residential, commercial, institutional, and industrial water efficiency capital improvements. Typical examples include, but are not limited to, water efficient toilets and urinals, clothes washers, landscape irrigation devices, upgrades in industrial process water, and replacing water-cooled equipment with air-cooled versions. The project benefits both existing and future ratepayers. Water conservation provides low-cost options for meeting potential challenges from climate change, managing Seattle's drinking water resources, and customer efficiency and potential cost savings on water bills.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	26,084	1,474	1,154	1,183	1,212	1,243	1,274	1,306	34,930
Total:	**26,084**	**1,474**	**1,154**	**1,183**	**1,212**	**1,243**	**1,274**	**1,306**	**34,930**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	26,084	1,474	1,154	1,183	1,212	1,243	1,274	1,306	34,930
Total:	**26,084**	**1,474**	**1,154**	**1,183**	**1,212**	**1,243**	**1,274**	**1,306**	**34,930**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Seattle Direct Water Conservation

Project No:	MC-SU-C1505	**BSL Code:**	BC-SU-C150B
Project Type:	Ongoing	**BSL Name:**	Water Resources
Project Category:	Improved Facility	**Location:**	Citywide and Direct Service
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project provides water use efficiency resources to the City's low-income customers to implement water conservation measures authorized by Ordinance 120532, adopted in 2001, and supplements funding provided under SPU's Regional Water Conservation project (C1504). Typical improvements consist of, but are not limited to, installing water-efficient fixtures, such as aerating showerheads and faucets, low water use toilets and efficient clothes washers.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	4,887	1,076	664	681	698	715	733	752	10,206
Total:	**4,887**	**1,076**	**664**	**681**	**698**	**715**	**733**	**752**	**10,206**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	4,887	1,076	664	681	698	715	733	752	10,206
Total:	**4,887**	**1,076**	**664**	**681**	**698**	**715**	**733**	**752**	**10,206**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Dam Safety

Project No:	MC-SU-C1506	**BSL Code:**	BC-SU-C150B
Project Type:	Ongoing	**BSL Name:**	Water Resources
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Outside City of Seattle
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project maintains the safety of SPU's water supply dams in the Cedar River and South Fork Tolt River Municipal Watersheds and the in-town reservoir dams. Typical improvements may include, but are not limited to, upgrades to the dams' failure warning systems, spillways, outlet works, piping, and other civil, mechanical, and structural systems. This project ensures the continuing safe functioning, operation and monitoring of SPU's water supply dams and associated facilities per Federal Energy Regulatory Commission (FERC), state and local regulations, and SPU requirements to prevent loss of life and/or property damage and loss of SPU's ability to deliver reliable drinking water supply to its customers.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	2,679	4,333	5,059	4,261	2,889	300	215	150	19,886
Total:	**2,679**	**4,333**	**5,059**	**4,261**	**2,889**	**300**	**215**	**150**	**19,886**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	2,679	4,333	5,059	4,261	2,889	300	215	150	19,886
Total:	**2,679**	**4,333**	**5,059**	**4,261**	**2,889**	**300**	**215**	**150**	**19,886**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Water System Plan

Project No:	MC-SU-C1510	**BSL Code:**	BC-SU-C150B
Project Type:	Ongoing	**BSL Name:**	Water Resources
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This project develops the Water System Plan. This project meets the State requirement that SPU update a water system plan every six years and submit the plan to the Washington Department of Health (DOH) for approval as a condition of the operating permit for the drinking water system.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	404	29	-	-	-	-	-	155	588
Total:	**404**	**29**	**-**	**-**	**-**	**-**	**-**	**155**	**588**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	404	29	-	-	-	-	-	155	588
Total:	**404**	**29**	**-**	**-**	**-**	**-**	**-**	**155**	**588**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Hatchery Works

Project No:	MC-SU-C1511	**BSL Code:**	BC-SU-C150B
Project Type:	Ongoing	**BSL Name:**	Water Resources
Project Category:	Improved Facility	**Location:**	Cedar River Watershed
Current Project Stage:	N/A	**Council District:**	Outside City of Seattle
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides improvements to the sockeye salmon hatchery, including improvements to the Broodstock collection facility, improvements to the hatchery spring water pumps, improvements to adult holding ponds, and additions for water redundancy. These facilities are a requirement of the Landsburg Mitigation Agreement and the Muckleshoot Settlement Agreement.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	775	6,755	4,754	1,630	1,868	550	-	-	16,332
Total:	**775**	**6,755**	**4,754**	**1,630**	**1,868**	**550**	**-**	**-**	**16,332**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	775	6,755	4,754	1,630	1,868	550	-	-	16,332
Total:	**775**	**6,755**	**4,754**	**1,630**	**1,868**	**550**	**-**	**-**	**16,332**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Watershed Road Improvements/Decommissioning

Project No:	MC-SU-C1601	**BSL Code:**	BC-SU-C160B
Project Type:	Ongoing	**BSL Name:**	Habitat Conservation Program
Project Category:	Improved Facility	**Location:**	Cedar River Watershed
Current Project Stage:	N/A	**Council District:**	Outside City of Seattle
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides forest road improvements and decommissioning in the Cedar River Watershed. The purpose of this project is to reduce the delivery of sediment into the waterways in the watershed to protect both aquatic habitat and water quality. This project is a requirement under the Cedar River Watershed Habitat Conservation Plan (HCP).

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	6,994	1,204	847	572	475	475	600	475	11,641
Total:	**6,994**	**1,204**	**847**	**572**	**475**	**475**	**600**	**475**	**11,641**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	6,994	1,204	847	572	475	475	600	475	11,641
Total:	**6,994**	**1,204**	**847**	**572**	**475**	**475**	**600**	**475**	**11,641**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Stream & Riparian Restoration

Project No:	MC-SU-C1602	**BSL Code:**	BC-SU-C160B
Project Type:	Ongoing	**BSL Name:**	Habitat Conservation Program
Project Category:	Improved Facility	**Location:**	Cedar River Watershed
Current Project Stage:	N/A	**Council District:**	Outside City of Seattle
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides stream and riparian restoration in the Cedar River Watershed, including large woody debris placement, riparian conifer under-planting, and culvert replacement for fish passage and peak storm flows. This project is a requirement under the Cedar River Habitat Conservation Plan (HCP).

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	4,330	523	98	154	152	39	39	40	5,375
Total:	**4,330**	**523**	**98**	**154**	**152**	**39**	**39**	**40**	**5,375**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	4,330	523	98	154	152	39	39	40	5,375
Total:	**4,330**	**523**	**98**	**154**	**152**	**39**	**39**	**40**	**5,375**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Upland Reserve Forest Restore

Project No:	MC-SU-C1603	**BSL Code:**	BC-SU-C160B
Project Type:	Ongoing	**BSL Name:**	Habitat Conservation Program
Project Category:	Improved Facility	**Location:**	Cedar River Watershed
Current Project Stage:	N/A	**Council District:**	Outside City of Seattle
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides upland forest restoration in the Cedar River Watershed, including ecological and restoration thinning, conifer planting, forest inventory and modeling, and species monitoring. This project is a requirement under the Cedar River Habitat Conservation Plan (HCP).

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	2,665	126	120	123	125	128	130	133	3,550
Total:	**2,665**	**126**	**120**	**123**	**125**	**128**	**130**	**133**	**3,550**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	2,665	126	120	123	125	128	130	133	3,550
Total:	**2,665**	**126**	**120**	**123**	**125**	**128**	**130**	**133**	**3,550**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Ballard Locks Improvements

Project No:	MC-SU-C1606	**BSL Code:**	BC-SU-C160B
Project Type:	Discrete	**BSL Name:**	Habitat Conservation Program
Project Category:	Improved Facility	**Location:**	NW 54th St 30th Ave NW
Current Project Stage:	Stage 5 - Construction	**Council District:**	Council District 6
Start/End Date:	2000 - 2025	**Neighborhood District:**	Ballard
Total Project Cost:	$1,302	**Urban Village:**	Ballard-Interbay Northend

This project provides improvements at the Ballard Locks to upgrade conditions for salmon. Improvements are focused on conserving the amount of freshwater needed to operate the locks to reduce the demand for freshwater from the Cedar River and increase the availability of freshwater for salmon. This project is a requirement of the Cedar River Habitat Conservation Plan (HCP).

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	503	305	160	165	170	175	180	185	1,842
Total:	**503**	**305**	**160**	**165**	**170**	**175**	**180**	**185**	**1,842**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	503	305	160	165	170	175	180	185	1,842
Total:	**503**	**305**	**160**	**165**	**170**	**175**	**180**	**185**	**1,842**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Downstream Fish Habitat

Project No:	MC-SU-C1607	**BSL Code:**	BC-SU-C160B
Project Type:	Discrete	**BSL Name:**	Habitat Conservation Program
Project Category:	Improved Facility	**Location:**	Cedar River Watershed
Current Project Stage:	Stage 5 - Construction	**Council District:**	Outside City of Seattle
Start/End Date:	2008 - 2024	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	$17,456	**Urban Village:**	Not in an Urban Village

This project provides protection and restoration of fish habitat along the lower Cedar River, below the City's municipal watershed boundary at the Landsburg Dam and includes both acquisition of habitat lands and habitat restoration on the main stem of the Cedar River. This project is a requirement of the Cedar River Habitat Conservation Plan (HCP).

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	12,825	3,581	150	100	800	800	100	100	18,456
Total:	**12,825**	**3,581**	**150**	**100**	**800**	**800**	**100**	**100**	**18,456**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	12,825	3,581	150	100	800	800	100	100	18,456
Total:	**12,825**	**3,581**	**150**	**100**	**800**	**800**	**100**	**100**	**18,456**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Instream Flow Management Studies

Project No:	MC-SU-C1608	**BSL Code:**	BC-SU-C160B
Project Type:	Ongoing	**BSL Name:**	Habitat Conservation Program
Project Category:	Improved Facility	**Location:**	Cedar River Watershed
Current Project Stage:	N/A	**Council District:**	Outside City of Seattle
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides research and monitoring to examine the effects of instream flows on salmon species in the Cedar River. This ongoing project monitors flow compliance, verifies accretion flows downstream of Landsburg, improves flow-switching criteria, and develops a better understanding of relationships between stream flow and aquatic habitat. This ongoing project is a requirement of the Cedar River Habitat Conservation Plan (HCP).

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	1,789	127	100	100	100	100	100	100	2,516
Total:	**1,789**	**127**	**100**	**100**	**100**	**100**	**100**	**100**	**2,516**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	1,789	127	100	100	100	100	100	100	2,516
Total:	**1,789**	**127**	**100**	**100**	**100**	**100**	**100**	**100**	**2,516**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Seattle Public Utilities

Shared & Technology Projects

Meter Replacement

Project No:	MC-SU-C4101	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project funds replacement of existing water meters when they fail or become obsolete. Meters measuring up to two inches are replaced when they stop running. Meters measuring three inches or more are repaired when possible, but are replaced when repair costs exceed replacement costs. Accurate water meters ensure that customers are billed fairly for the water they use. Since water meters also are used to bill customers for their wastewater discharges, 48 percent of the funding is allocated to the Drainage and Wastewater line of business.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	7,621	486	668	678	688	698	708	719	12,265
Water Rates	8,266	525	723	734	745	756	768	779	13,296
Total:	**15,886**	**1,010**	**1,391**	**1,412**	**1,433**	**1,454**	**1,476**	**1,498**	**25,561**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	7,621	486	668	678	688	698	708	719	12,265
Water Fund	8,266	525	723	734	745	756	768	779	13,296
Total:	**15,886**	**1,010**	**1,391**	**1,412**	**1,433**	**1,454**	**1,476**	**1,498**	**25,561**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Alaskan Way Viaduct & Seawall Replacement Program

Project No:	MC-SU-C4102	**BSL Code:**	BC-SU-C410B
Project Type:	Discrete	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	Stage 5 - Construction	**Council District:**	Multiple
Start/End Date:	2001 - 2025	**Neighborhood District:**	Multiple
Total Project Cost:	$87,522	**Urban Village:**	Multiple

This project relocates, replaces, and protects water infrastructure affected by the replacement of the Alaskan Way Viaduct and Seawall. This project encompasses many sub-projects which are collectively known as the Alaskan Way Viaduct and Seawall Replacement project (AWVSR project). The Washington State Department of Transportation (WSDOT) is the lead for the SR-99 replacement, while the City of Seattle is the lead on development of the waterfront public space, implementation of the new surface Alaskan Way, and design and construction of the seawall.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	38,793	22,711	5,899	3,029	281	814	23	-	71,550
Water Rates	23,040	1,986	460	537	161	71	-	-	26,254
Total:	**61,833**	**24,697**	**6,359**	**3,566**	**442**	**886**	**23**	**-**	**97,804**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	38,793	22,711	5,899	3,029	281	814	23	-	71,550
Water Fund	23,040	1,986	460	537	161	71	-	-	26,254
Total:	**61,833**	**24,697**	**6,359**	**3,566**	**442**	**886**	**23**	**-**	**97,804**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Operations Control Center

Project No:	MC-SU-C4105	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	2700 Airport Way South
Current Project Stage:	N/A	**Council District:**	Council District 2
Start/End Date:	N/A	**Neighborhood District:**	Greater Duwamish
Total Project Cost:	N/A	**Urban Village:**	Greater Duwamish

This ongoing facilities project renovates, rehabilitates, replaces existing buildings, and constructs new facilities at the Operations Control Center located at 2700 Airport Way South to improve the efficiency and effectiveness of the field crews delivering utility services to customers. Typical improvements include, but are not limited to, roof and other exterior replacements, improvements to public spaces, office and crew spaces and lighting, and heating and ventilation systems. These improvements increase the useful life of the facility, preserve the value of the asset, and provide a safe work and public space environment.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Rates	1,407	1,758	15	-	-	-	-	-	3,180
Total:	**1,407**	**1,758**	**15**	**-**	**-**	**-**	**-**	**-**	**3,180**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Water Fund	1,407	1,758	15	-	-	-	-	-	3,180
Total:	**1,407**	**1,758**	**15**	**-**	**-**	**-**	**-**	**-**	**3,180**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Operational Facility - Construction

Project No:	MC-SU-C4106	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing facilities project renovates, rehabilitates, replaces existing buildings, and constructs new facilities at various locations within the city limits to address deficiencies, failures, and functional changes in the SPU Lines of Business. Typical improvements include, but are not limited to, roof replacements, exterior wall or cladding replacements, and improvements to administrative office space, crew and shop space, lighting, heating and ventilation systems, and facilities structures. These improvements increase the useful life of the facilities, preserve the value of the assets, and provide a safe working environment.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
	-	-	-	-	-	-	-	-	-
Drainage and Wastewater Rates	20,942	30,604	4,540	14,858	12,157	4,181	7,110	3,245	97,637
Solid Waste Rates	63	1,900	32	64	310	255	100	75	2,798
Water Rates	1,685	16,231	1,586	2,678	4,733	4,814	3,990	1,130	36,847
Total:	**22,689**	**48,735**	**6,158**	**17,600**	**17,200**	**9,250**	**11,200**	**4,450**	**137,281**
Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	20,942	30,604	4,540	14,858	12,157	4,181	7,110	3,245	97,637
Solid Waste Fund	63	1,900	32	64	310	255	100	75	2,798
Water Fund	1,685	16,231	1,586	2,678	4,733	4,814	3,990	1,130	36,847
Total:	**22,689**	**48,735**	**6,158**	**17,600**	**17,200**	**9,250**	**11,200**	**4,450**	**137,281**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Regional Facility - Other

Project No:	MC-SU-C4107	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	Regional
Current Project Stage:	N/A	**Council District:**	Outside City of Seattle
Start/End Date:	N/A	**Neighborhood District:**	Outside City of Seattle
Total Project Cost:	N/A	**Urban Village:**	Outside City of Seattle

This ongoing facilities project renovates, rehabilitates, replaces existing buildings, and constructs new facilities at various locations outside of City limits to address deficiencies, failures, and functional changes in the drinking water system.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Rates	19,187	6,439	3,614	3,536	2,685	15,870	13,394	5,439	70,164
Total:	**19,187**	**6,439**	**3,614**	**3,536**	**2,685**	**15,870**	**13,394**	**5,439**	**70,164**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Water Fund	19,187	6,439	3,614	3,536	2,685	15,870	13,394	5,439	70,164
Total:	**19,187**	**6,439**	**3,614**	**3,536**	**2,685**	**15,870**	**13,394**	**5,439**	**70,164**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Integrated Control Monitoring Program

Project No:	MC-SU-C4108	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Not Applicable
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides for electronic and mechanical system upgrades as required at various City facilities. The drinking water Supervisory Control and Data Acquisition (SCADA) system was installed in 2005 throughout King County. System components include, but is not limited to, treatment/flow/pressure sensors, remote control pumps/valves used in the conveyance and quality of drinking water and the delivery of water to fire hydrants, also known as "fire flow".

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Rates	1,588	244	-	-	-	-	-	-	1,832
Water Rates	812	404	360	360	360	360	360	360	3,376
Total:	**2,400**	**649**	**360**	**360**	**360**	**360**	**360**	**360**	**5,208**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Fund	1,588	244	-	-	-	-	-	-	1,832
Water Fund	812	404	360	360	360	360	360	360	3,376
Total:	**2,400**	**649**	**360**	**360**	**360**	**360**	**360**	**360**	**5,208**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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Security Improvements

Project No:	MC-SU-C4113	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project funds physical, integrated security system components on water infrastructure throughout the City. Components may include, but are not limited to, fences, gates, access control card readers, intercoms, lighting, door and hatch contacts, CCTV cameras, motion detection devices, and fiber and conduit.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	368	138	180	180	165	300	255	210	1,795
Solid Waste Rates	671	177	95	207	135	225	145	115	1,770
Water Rates	5,216	1,702	950	838	1,325	1,700	1,475	750	13,956
Total:	**6,254**	**2,016**	**1,225**	**1,225**	**1,625**	**2,225**	**1,875**	**1,075**	**17,521**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	368	138	180	180	165	300	255	210	1,795
Solid Waste Fund	671	177	95	207	135	225	145	115	1,770
Water Fund	5,216	1,702	950	838	1,325	1,700	1,475	750	13,956
Total:	**6,254**	**2,016**	**1,225**	**1,225**	**1,625**	**2,225**	**1,875**	**1,075**	**17,521**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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Heavy Equipment Purchases

Project No:	MC-SU-C4116	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	New Investment	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Not Applicable
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides SPU staff with new and replacement heavy equipment that is used throughout Seattle and King County. Typical purchases include backhoes, graders, loaders, dozers, service trucks, and dump trucks. This equipment transports work crews and tools to job sites and supports the safe and efficient replacement, repair, and maintenance of infrastructure that delivers high quality drinking water to 1.5 million customers in King County.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Rates	19,534	5,354	3,638	3,757	3,670	3,546	4,121	3,600	47,220
Solid Waste Rates	12,951	780	2,585	2,199	1,428	1,124	1,150	1,000	23,217
Water Rates	20,858	4,764	3,125	3,070	2,879	2,654	3,431	3,500	44,281
Total:	**53,343**	**10,899**	**9,348**	**9,025**	**7,977**	**7,324**	**8,702**	**8,100**	**114,718**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Fund	19,534	5,354	3,638	3,757	3,670	3,546	4,121	3,600	47,220
Solid Waste Fund	12,951	780	2,585	2,199	1,428	1,124	1,150	1,000	23,217
Water Fund	20,858	4,764	3,125	3,070	2,879	2,654	3,431	3,500	44,281
Total:	**53,343**	**10,899**	**9,348**	**9,025**	**7,977**	**7,324**	**8,702**	**8,100**	**114,718**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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1% for Arts

Project No:	MC-SU-C4118	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	New Investment	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project provides funding for Seattle Public Utilities' 1% for Arts contribution. Eligibility is determined at the individual project level with payment occurring from this project. Funds contributed to the 1% for Arts project allow for the commission, purchase, and installation of art on City-owned properties that is accessible to the public. The Municipal Arts Plan, which is prepared annually, describes the status of ongoing art projects and establishes the scope of work and allocations for new art projects.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	4,662	1,917	1,407	1,081	849	640	600	719	11,875
Solid Waste Rates	1,999	140	130	171	65	3	3	1	2,511
Water Rates	2,179	419	304	126	178	366	154	75	3,800
Total:	**8,841**	**2,476**	**1,841**	**1,377**	**1,092**	**1,008**	**757**	**794**	**18,186**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	4,662	1,917	1,407	1,081	849	640	600	719	11,875
Solid Waste Fund	1,999	140	130	171	65	3	3	1	2,511
Water Fund	2,179	419	304	126	178	366	154	75	3,800
Total:	**8,841**	**2,476**	**1,841**	**1,377**	**1,092**	**1,008**	**757**	**794**	**18,186**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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Move Seattle

Project No:	MC-SU-C4119	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This multi-year project funds assessments, repairs, and improvements to SPU's drinking water utility infrastructure at sites chosen by the Seattle Department of Transportation (SDOT) for bridge improvements and pedestrian and bicycle safety improvements within its "Move Seattle" project. SPU assesses the condition of its utility infrastructure at SDOT's project sites and conducts repairs and improvements as needed. This project was formerly titled "Bridging the Gap - WF."

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
	-	-	-	-	-	-	-	-	-
Drainage and Wastewater Rates	5,195	44,466	16,406	13,321	11,559	10,558	7,754	15,996	125,255
Water Rates	7,314	31,760	22,112	16,566	10,320	11,400	9,162	16,166	124,800
Total:	**12,510**	**76,226**	**38,518**	**29,886**	**21,879**	**21,958**	**16,916**	**32,162**	**250,055**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	5,195	44,466	16,406	13,321	11,559	10,558	7,754	15,996	125,255
Water Fund	7,314	31,760	22,112	16,566	10,320	11,400	9,162	16,166	124,800
Total:	**12,510**	**76,226**	**38,518**	**29,886**	**21,879**	**21,958**	**16,916**	**32,162**	**250,055**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Emergency Storms Program

Project No:	MC-SU-C4120	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project funds water and drainage & wastewater infrastructure capital improvement projects resulting from previous and possible future storm events. Projects within this project are potentially Federal Emergency Management Agency (FEMA) reimbursable and need to be separated for tracking and reimbursement purposes. Typical improvements include but are not limited to repairing and improving roads, bridges, and other stream crossing structures in the City's Municipal Watersheds, as well as replacing damaged equipment, such as pumps and security gates, and stabilizing debris slide areas and stream banks.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	1	100	-	-	-	-	-	-	101
Total:	**1**	**100**	**-**	**-**	**-**	**-**	**-**	**-**	**101**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	1	100	-	-	-	-	-	-	101
Total:	**1**	**100**	**-**	**-**	**-**	**-**	**-**	**-**	**101**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Other Major Transportation Projects

Project No:	MC-SU-C4123	**BSL Code:**	BC-SU-C410B
Project Type:	Ongoing	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Multiple
Start/End Date:	N/A	**Neighborhood District:**	Multiple
Total Project Cost:	N/A	**Urban Village:**	Multiple

This ongoing project funds projects that mitigate undesirable impacts and take advantage of opportunities generated by the capital transportation projects of the Washington State Department of Transportation (WSDOT) and the Seattle Department of Transportation (SDOT) throughout the City. Work may include, but is not limited to, physically protecting the infrastructure during the transportation construction process, repairing and replacing damaged infrastructure, and improving existing infrastructure to meet higher standards. Project sites may include, but are not limited to, State Route 520, Interstate 5, and Interstate 90.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	215	2,050	100	75	75	20	-	-	2,535
Water Rates	436	1,309	101	300	6,750	50	-	-	8,946
Total:	**651**	**3,359**	**201**	**375**	**6,825**	**70**	**-**	**-**	**11,481**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	215	2,050	100	75	75	20	-	-	2,535
Water Fund	436	1,309	101	300	6,750	50	-	-	8,946
Total:	**651**	**3,359**	**201**	**375**	**6,825**	**70**	**-**	**-**	**11,481**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Streetcar Related Projects

Project No:	MC-SU-C4130	**BSL Code:**	BC-SU-C410B
Project Type:	Discrete	**BSL Name:**	Shared Cost Projects
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	Stage 2 - Initiation, Project Definition, & Planning	**Council District:**	Multiple
Start/End Date:	2009 - 2030	**Neighborhood District:**	Multiple
Total Project Cost:	$66,021	**Urban Village:**	Multiple

This project plans and relocates water facilities that will be impacted by the SDOT-led First Hill Streetcar project and related streetcar projects, which will connect major employment centers on First Hill to the regional light rail system stations on Capitol Hill and in the International District. It is currently in the construction phase. This project was formerly titled "First Hill Streetcar - WF."

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
	-	-	-	-	-	-	-	-	-
Drainage and Wastewater Rates	4,052	3,056	119	1,016	1,917	1,408	-	-	11,568
Water Rates	14,641	11,289	123	7,168	12,641	6,566	-	-	52,428
Total:	**18,693**	**14,345**	**242**	**8,184**	**14,559**	**7,974**	**-**	**-**	**63,996**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	4,052	3,056	119	1,016	1,917	1,408	-	-	11,568
Water Fund	14,641	11,289	123	7,168	12,641	6,566	-	-	52,428
Total:	**18,693**	**14,345**	**242**	**8,184**	**14,559**	**7,974**	**-**	**-**	**63,996**

O&M Impacts: Any O&M needed as a result of this project will be included and/or identified as part of SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Customer Contact & Billing

Project No:	MC-SU-C5402	**BSL Code:**	BC-SU-C510B
Project Type:	Ongoing	**BSL Name:**	Technology
Project Category:	Improved Facility	**Location:**	N/A
Current Project Stage:	N/A	**Council District:**	Not Applicable
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides technology solutions and business application upgrades in support of SPU's Customer Contact Center and activities carried out by the Customer Service Branch. Planned projects include, but are not limited to, enhancements to the New Customer Billing System and new technology solutions for enhanced customer contact management. This ongoing project is intended to enhance customer service, customer contact, and ensure accurate Utility billing.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	1,518	3,527	1,311	430	430	430	430	430	8,506
Solid Waste Rates	987	2,642	457	150	150	150	150	150	4,836
Water Rates	1,518	4,504	1,282	420	420	420	420	420	9,405
Total:	**4,023**	**10,673**	**3,050**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**22,747**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	1,518	3,527	1,311	430	430	430	430	430	8,506
Solid Waste Fund	987	2,642	457	150	150	150	150	150	4,836
Water Fund	1,518	4,504	1,282	420	420	420	420	420	9,405
Total:	**4,023**	**10,673**	**3,050**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**22,747**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

[1]Funds are appropriated through the Adopted Budget at the Budget Summary Level. All Amounts shown above are in thousands of dollars

Enterprise Information Management

Project No:	MC-SU-C5403	**BSL Code:**	BC-SU-C510B
Project Type:	Ongoing	**BSL Name:**	Technology
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Not Applicable
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides integrated technology solutions in support of the management of SPU's corporate knowledge, including data, information, documents, and web content. Typical improvements may include, but are not limited to, replacement of shared file storage, new online collaboration tools, introduction of workflow, tracking & reporting applications, web content management systems, and an enterprise document management solution. This ongoing project enhances SPU's ability to retrieve, share, distribute and manage corporate information.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	376	1,247	1,312	860	860	860	860	860	7,235
Solid Waste Rates	115	135	458	300	300	300	300	300	2,207
Water Rates	425	574	1,281	840	840	840	840	840	6,480
Total:	**916**	**1,956**	**3,050**	**2,000**	**2,000**	**2,000**	**2,000**	**2,000**	**15,922**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	376	1,247	1,312	860	860	860	860	860	7,235
Solid Waste Fund	115	135	458	300	300	300	300	300	2,207
Water Fund	425	574	1,281	840	840	840	840	840	6,480
Total:	**916**	**1,956**	**3,050**	**2,000**	**2,000**	**2,000**	**2,000**	**2,000**	**15,922**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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IT Infrastructure

Project No:	MC-SU-C5404	**BSL Code:**	BC-SU-C510B
Project Type:	Ongoing	**BSL Name:**	Technology
Project Category:	Improved Facility	**Location:**	N/A
Current Project Stage:	N/A	**Council District:**	Not Applicable
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing IT asset management project ensures the availability, reliability, and security of SPU's corporate computing infrastructure. The project acquires and maintains SPU-owned and managed servers, local networks, shared storage and backup systems, operating software, and communications infrastructure.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Rates	728	763	480	730	730	730	730	730	5,620
Solid Waste Rates	253	284	172	263	263	263	263	263	2,022
Water Rates	1,224	517	498	758	758	758	758	758	6,026
Total:	**2,205**	**1,564**	**1,150**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**13,668**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Fund	728	763	480	730	730	730	730	730	5,620
Solid Waste Fund	253	284	172	263	263	263	263	263	2,022
Water Fund	1,224	517	498	758	758	758	758	758	6,026
Total:	**2,205**	**1,564**	**1,150**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**13,668**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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Project Delivery & Performance

Project No:	MC-SU-C5405	**BSL Code:**	BC-SU-C510B
Project Type:	Ongoing	**BSL Name:**	Technology
Project Category:	Improved Facility	**Location:**	N/A
Current Project Stage:	N/A	**Council District:**	Not Applicable
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides technology applications and application upgrades in support of improvements to project delivery and performance. Planned projects include continued development of an Enterprise Project Management System, replacement of the Engineering Support Contract Payments system, and SPU's share of costs for the City's central financial system upgrades. Future projects may include development of new Enterprise Resource Planning systems such as HR provisioning and financial reporting. This project will result in an improved ability to plan and deliver projects on schedule and within budget.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	6,335	2,225	801	731	731	731	731	731	13,016
Solid Waste Rates	2,361	660	466	255	255	255	255	255	4,763
Water Rates	6,898	1,860	783	714	714	714	714	714	13,110
Total:	**15,594**	**4,745**	**2,050**	**1,700**	**1,700**	**1,700**	**1,700**	**1,700**	**30,889**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	6,335	2,225	801	731	731	731	731	731	13,016
Solid Waste Fund	2,361	660	466	255	255	255	255	255	4,763
Water Fund	6,898	1,860	783	714	714	714	714	714	13,110
Total:	**15,594**	**4,745**	**2,050**	**1,700**	**1,700**	**1,700**	**1,700**	**1,700**	**30,889**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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Science & System Performance

Project No:	MC-SU-C5406	**BSL Code:**	BC-SU-C510B
Project Type:	Ongoing	**BSL Name:**	Technology
Project Category:	Improved Facility	**Location:**	N/A
Current Project Stage:	N/A	**Council District:**	Not Applicable
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project will provide new and improved technology applications and accompanying data management tools to support the gathering, monitoring, tracking and analysis of science and engineering information. Several planned projects include replacement of obsolete regulatory compliance tracking applications, upgrades to field monitoring equipment, and the integration of SCADA data with other data systems. This project enhances SPU's ability to control water quality and comply with environmental and health regulations.

Resources	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Rates	1,236	400	108	688	688	688	688	688	5,183
Solid Waste Rates	19	-	38	240	240	240	240	240	1,257
Water Rates	1,607	2,591	105	672	672	672	672	672	7,662
Total:	**2,862**	**2,991**	**250**	**1,600**	**1,600**	**1,600**	**1,600**	**1,600**	**14,102**

Fund Appropriations / Allocations[1]	LTD Actuals	2020 Revised	2021	2022	2023	2024	2025	2026	Total
Drainage and Wastewater Fund	1,236	400	108	688	688	688	688	688	5,183
Solid Waste Fund	19	-	38	240	240	240	240	240	1,257
Water Fund	1,607	2,591	105	672	672	672	672	672	7,662
Total:	**2,862**	**2,991**	**250**	**1,600**	**1,600**	**1,600**	**1,600**	**1,600**	**14,102**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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Asset Information Management

Project No:	MC-SU-C5407	**BSL Code:**	BC-SU-C510B
Project Type:	Ongoing	**BSL Name:**	Technology
Project Category:	Improved Facility	**Location:**	Various
Current Project Stage:	N/A	**Council District:**	Not Applicable
Start/End Date:	N/A	**Neighborhood District:**	Not in a Neighborhood District
Total Project Cost:	N/A	**Urban Village:**	Not in an Urban Village

This ongoing project provides applications, upgrades and data management tools in support of SPU's work and asset management projects. Several new and updated technology solutions designed to enhance the efficiency and effectiveness of drinking water, sewer, drainage, and solid waste operations are planned. Activities within this project aim to further enhance safety and improve responsiveness of SPU's utility operations.

Resources	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Rates	947	1,864	1,140	860	860	860	860	860	8,251
Solid Waste Rates	640	240	398	300	300	300	300	300	2,777
Water Rates	849	1,448	1,113	840	840	840	840	840	7,611
Total:	**2,437**	**3,552**	**2,650**	**2,000**	**2,000**	**2,000**	**2,000**	**2,000**	**18,639**

Fund Appropriations / Allocations[1]	**LTD Actuals**	**2020 Revised**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**Total**
Drainage and Wastewater Fund	947	1,864	1,140	860	860	860	860	860	8,251
Solid Waste Fund	640	240	398	300	300	300	300	300	2,777
Water Fund	849	1,448	1,113	840	840	840	840	840	7,611
Total:	**2,437**	**3,552**	**2,650**	**2,000**	**2,000**	**2,000**	**2,000**	**2,000**	**18,639**

O&M Impacts: This is an ongoing program and any O&M needed as a result of this program is included in SPU's Operating Budget.

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