

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
- 67 Pump Stations
- 5.5 miles of wastewater force mains
- 82 City-owned and permitted Combined Sewer Overflow points
- 38 Combined Sewer Overflow control detention tanks/pipes
- 481 miles of storm drains / 591 storm drain outfalls
- 24,733 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 \$1.37 billion over the next six years, from 2024-2029.

Thematic Priorities/Project Selection Criteria

The goal of the DWF CIP is to replace failing assets, construct new facilities that reduce the frequency of flooding and sewer backups for customers, improve water quality and habitat in the environment by reducing sewage overflows and the impacts of stormwater pollution, and provide adequate workforce facilities for our employees and equipment operations. Projects in the DWF CIP are guided by various Federal regulations, City policies, and long-term planning documents (e.g., the Plan to Protect Seattle's Waterways and asset management plans). Additional direction for SPU's capital improvement program come from our 2021-2026 Strategic Business Plan, which outlined new investments, cost savings, and a retail rate path for the six-year period and grew out of SPU's efforts to provide greater rate predictability for customers while making important investments for the future. In addition to candidate capital projects identified from these planning documents, projects are identified from external projects, opportunities, emergencies, and other unexpected events. Prioritized projects are predominantly based on the following:

- **Public Health, Safety & Environment:** The overriding priority for the DWF CIP is maintaining public health and safety by providing or improving services to customers and decreasing our impact on the environment. Examples of highly ranked projects in this category include the Drainage Capacity program, Sanitary Sewer Overflow Capacity program, South Park Water Quality Facility, and Protection of Beneficial Uses program which includes floodplain reconnection efforts and water quality improvement projects.

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- **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 comply with State and Federal regulatory requirements including 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 NPDES 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 Natural Drainage System (NDS) Partnering Program.
- **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 Transportation Agency projects through SDOT’s Bridging the Gap Program and Sound Transit.

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 other 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). The need for a given project or program is documented in a business case document and must be approved by the SPU General Manager/CEO and Asset Management Committee or CIP Board.

DWW Priorities that are also Mayor/Council Priorities

SPU's Strategic Business Plan helps us focus our work to better meet the needs of our customers and communities. It also provides our customers with a predictable three-year rate path and projections for the subsequent three years. SPU updates the plan and adopts rate path on a three-year cycle to allow for future uncertainties and adjustments. As part of the update process, SPU conducts broad research and public engagement efforts, in addition to soliciting input by the Mayor’s Office and City Council.

The DWW priorities in the SBP are the collective priorities for SPU’s DWW line of business, and they reflect and respond to values consistently expressed by customers and community: affordability, sustainability, and equity. SPU is committed to leading with equity and working in partnership with communities and employees to create a just and sustainable future. We understand that the actions we take today have the power to transform our employees, community, environment, and economy for generations to come.

SPU’s vision for being Community Centered, One Water, and Zero Waste is as follows:

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- **Community Centered:** As a community-centered utility, we must be in relationship with community. Our work must include listening and advocating for community interests. If we are successful in adopting this mindset, then our communities will come away with a strong sense of empowerment.
- **One Water:** The challenges facing the water industry are incredibly complex and costly. We must develop multi-faceted, multi-benefit systemic solutions that recognize the value in all water resources.
- **Zero Waste:** We must strive for a future where we are not producing waste. This means intense recycling/reuse, reducing packaging and food waste, and adopting and seeding new ways of doing business and circular economy (e.g., deconstruction vs. demolition).

Reaching our goals requires long-range planning and strategic maneuvering. SPU’s General Manager/CEO recently highlighted near-term steps to lead the organization as part of his recent confirmation. These steps include planning for a transition away from centralized treatment plants to a future where small-scale decentralized treatment plants are the norm; adopting a continuous improvement culture to deliver services efficiently and effectively with data-informed decision making, work processes, and value-added outcomes for customers; and excellent service delivery that continues to prioritize the City’s values including implementing solutions that are sustainable and resilient, which includes a growing focus on delivering more holistic, programmatic, and nature-based solutions.

CIP Highlights

2024-2029 Proposed Drainage and Wastewater Fund CIP by BCL
(\$’s in ‘000s; total may not sum due to rounding)

BCL	2024	2025	2026	2027	2028	2029	Total
BC-SU-C333B - Protection of Beneficial Uses	36,683	40,342	63,152	66,764	47,918	39,581	294,440
BC-SU-C350B - Sediments	10,734	15,647	10,556	11,319	19,066	18,608	85,930
BC-SU-C360B - Combined Sewer Overflows	111,767	85,683	55,576	28,395	31,521	40,881	353,823
BC-SU-C370B - Rehabilitation	61,250	51,397	45,447	45,738	52,221	54,486	310,539
BC-SU-C380B - Flooding, Sewer Backup & Lndsl	12,203	20,776	28,332	43,695	33,495	30,300	168,801
BC-SU-C410B - Shared Cost Projects	19,399	17,880	19,605	21,154	28,253	21,972	128,262
BC-SU-C510B - Technology	5,450	4,322	4,322	4,322	4,322	4,322	27,057
Total	257,485	236,047	226,989	221,386	216,796	210,149	1,368,853

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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 Program projects (a key component of Seattle’s Plan to Protect Seattle’s Waterways) which improves water quality with green stormwater infrastructure (GSI) approaches, while also partnering with SDOT to provide mobility improvements and streetscape enhancements. The program also includes projects that are part of the SPU and Council created GSI in Urban Villages Program, helping SPU grow approaches for partnering with other agencies, developers, and community-based organization to install GSI at the lowest costs moment. Stream culvert and floodplain storage efforts, including the Longfellow Flood Storage project, are exploring win-win partnerships with Seattle Parks and Recreation.

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 due to alleged historic contributions from Combined Sewer Overflows (CSO), storm drain discharges, and other City-owned facilities. The city continues to work with the 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, engineering design, construction of actual cleanup of contaminated sites, and liability allocation negotiations. The study phase of sediment remediation projects often requires multiple years before specific cleanup actions are defined. Current projections reflect costs associated with 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 habitats for endangered species, and pollute the Puget Sound.

Annual CSOs have been reduced from a range of 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 approximately 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

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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.

Planning 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 \$354 million over the next six years on CSO reduction projects. The majority of this spending is associated with the SCWQP, a joint project with King County to control CSOs into the Lake Washington Ship Canal and Salmon Bay, which is currently projected to cost \$640 million.

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

- pump station structures, force mains, 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 less than four sanitary sewer overflows per 100 miles of sewer pipe bi-annually. Individual projects are defined by the type and method of rehabilitation and/or replacement including emergency rehabilitation, no-dig pipe lining rehabilitation by crews or contract, full mainline dig pipe replacement by contract, dig point pipe and structure rehabilitation by crews or contract, pump station repairs or replacement by crew or contract, and force main repairs or replacement by contract.

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, and a drainage pipe rehabilitation program to replace and repair drainage pipes and conveyance structures.

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 Puget Sound. This program also involves protecting SPU's drainage and wastewater infrastructure in landslide prone areas from impending small landslides and providing drainage improvements where surface water generated from the City right-of way is contributing to slope instability and/or small landslides. Lastly, this program also includes sewer capacity projects that reduce sewer backups and help 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 12th Avenue drainage project, the South Park Conveyance 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.

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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 few interdepartmental projects including the Alaskan Way Viaduct and Seawall Replacement, Move Seattle, Center City Connector 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 2024 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 2024, 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, the Project Delivery and Performance Program, and the IT Infrastructure Program.

Within the Customer Contact and Billing Program, the next major projects to be developed are the CRM (Customer Relationship Management) for Community Engagement Project, and the Kubra Realtime project. Other projects slated would be the Integrated Security System project, Accela Software Implementation, Development Systems Integration Phase 2 project, and the Construction Contract Management project, along with other projects that have been deferred in previous years.

CIP Revenue Sources

The DWF CIP is financed through revenue bonds, a combination of low interest State and Federal loans, operating cash, and a small portion through capital grants or capital contributions in-kind. Financial policies adopted by the City Council and embedded within revenue bond covenants require that non-debt sources of funds (operating cash, grants, contributions) comprise at least 25% of the portfolio over a four-year period.

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For the 2024-2029 period, SPU has secured low interest SRF loans from the State Department of Ecology and WIFIA loans from the EPA to fund the majority of the Ship Canal Water Quality Project, with the balance funded through operating cash. The remaining projects will be funded through revenue bonds and operating cash. SPU will continue to seek out additional SRF and WIFIA loans where appropriate, as well as Public Works Trust Fund (PWTF) and Remedial Action Grants for sediments cleanup.

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 the Washington State Department of Ecology (DOE) - all within the financial limitations of the Fund.

The City negotiated a Consent Decree among 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 water quality treatment, detention, CSO retrofits, pipe and pump station rehabilitation, and inflow/infiltration reduction.

- 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.
- 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), floodplain reconnection (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 resulting in backups of sewage, localized flooding, and releases of untreated sewage.
- CSO and Drainage Facility Retrofits: This focuses on optimizing existing collection, pumping and storage systems, using low-cost repairs and modifications to reduce pollution to waterways and/or improve flow control benefits.
- Pipe and Pump Station Rehabilitation: This consists of repairing, rehabilitating, or replacing existing gravity sewer and drainage pipes and structures, 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 addressing parts of the system where there are direct stormwater connections to the sanitary sewer system which can be directed to a separated stormwater system. Infiltration reduction focuses on filling in cracks in sewer lines

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that allow groundwater to enter the 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. Funding levels for these programs are less than needed, but unable to be increased at this time due to the demand on our budget from regulatory requirements. The separated drainage and wastewater systems are either 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: Market conditions, inflation, and increasing cost of building large (drainage and wastewater) infrastructure in dense urban areas continue to put pressure on the portfolio.
- 3) Climate Change: Increasing rainfall intensities resulting from climate change are increasing pressure on existing drainage and wastewater infrastructure leading to increased CSOs and driving the need for larger solutions and additional system improvements. SPU assets also have risks related to sea level rise along the marine shoreline of the city.
- 4) King County Regional Treatment and Disposal rate increase impact: In 1958, a regional sewage treatment agency, the Municipality of Metropolitan Seattle (“Metro”), was formed to provide a regional solution to water quality problems. The City, rather than expanding its own treatment facilities, entered into a contract with Metro for sewage treatment. Metro operates three major regional wastewater treatment plants, two smaller local treatment plants, and four combined sewer overflow (“CSO”) treatment facilities, along with an extensive regional interceptor system to route sewage to the plants and stop untreated discharges into Lake Washington and other bodies of water. Metro and King County (the “County”) were merged in 1994. Since then, the County has been responsible for sewage treatment and disposal and has entered into a long-term contract with local sewage agencies, including the City, which remain responsible for their own local collection and transmission lines. The County currently provides services to 37 entities, including cities (including Seattle), sewer districts, and others. The County finances the capital and operating costs of its sewage treatment and disposal system, including projects from the Regional Wastewater Services Plan, with capacity charges to new customers and wholesale charges to the City and other component agencies, all of which are established by the County Council pursuant to the current agreement. Currently, the City’s share of the County’s wholesale charge revenue is approximately 40%, and SPU passes this wholesale charge on to the City’s Drainage and Wastewater System ratepayers. Future County increases in rates may impact the funding allocation available for SPU services.

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, including right-of-way bioretention through the NDS

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Partnering Program, and South Park water quality facility. With the implementation of the Seattle Transportation Plan, DWF CIP will look for partnering opportunities that will allow SPU to stretch dollars further.

The City is currently engaged in planning that will identify capital and operating and maintenance needs for the Drainage and Wastewater System. The City's Plan to Protect Seattle's Waterways (LTCP to reduce CSO and Integrated Plan that addresses both sewage overflows and polluted stormwater runoff), which was approved by the EPA, Department of Justice, and Ecology, requires CIP investments in wastewater and stormwater projects through 2030. Supplementing in the near-term and looking beyond 2030, SPU is in the process of developing a community-centered plan to guide investments in integrated utility infrastructure for the next 50 years ([Shape Our Water Plan](#)). 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. 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.

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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	13,197	1,242	2,437	4,418	10,343	24,181	18,217	10,503	84,537
Total:	13,197	1,242	2,437	4,418	10,343	24,181	18,217	10,503	84,537
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	13,197	1,242	2,437	4,418	10,343	24,181	18,217	10,503	84,537
Total:	13,197	1,242	2,437	4,418	10,343	24,181	18,217	10,503	84,537

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.

** 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	12,449	4,152	315	-	-	-	-	-	16,916
Total:	12,449	4,152	315	-	-	-	-	-	16,916
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	12,449	4,152	315	-	-	-	-	-	16,916
Total:	12,449	4,152	315	-	-	-	-	-	16,916

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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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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	8,167	1,041	2,446	9,760	14,762	7,846	8,810	9,600	62,432
King County Funds	-	500	-	-	-	-	-	-	500
Total:	8,167	1,541	2,446	9,760	14,762	7,846	8,810	9,600	62,932
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	8,167	1,541	2,446	9,760	14,762	7,846	8,810	9,600	62,932
Total:	8,167	1,541	2,446	9,760	14,762	7,846	8,810	9,600	62,932

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.

** 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	28,130	30	10	10	10	10	10	10	28,220
Total:	28,130	30	10	10	10	10	10	10	28,220
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	28,130	30	10	10	10	10	10	10	28,220
Total:	28,130	30	10	10	10	10	10	10	28,220

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	25,802	4,616	3,985	6,876	8,407	8,840	12,820	12,820	84,166
Total:	25,802	4,616	3,985	6,876	8,407	8,840	12,820	12,820	84,166
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	25,802	4,616	3,985	6,876	8,407	8,840	12,820	12,820	84,166
Total:	25,802	4,616	3,985	6,876	8,407	8,840	12,820	12,820	84,166

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	2,742	2,889	3,810	7,030	6,060	3,160	2,560	2,760	31,011
Total:	2,742	2,889	3,810	7,030	6,060	3,160	2,560	2,760	31,011
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	2,742	2,889	3,810	7,030	6,060	3,160	2,560	2,760	31,011
Total:	2,742	2,889	3,810	7,030	6,060	3,160	2,560	2,760	31,011

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	3,728	1,255	2,731	6,921	14,652	22,148	31,211	40,571	123,216
Total:	3,728	1,255	2,731	6,921	14,652	22,148	31,211	40,571	123,216
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	3,728	1,255	2,731	6,921	14,652	22,148	31,211	40,571	123,216
Total:	3,728	1,255	2,731	6,921	14,652	22,148	31,211	40,571	123,216

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	15,618	300	300	300	300	300	300	300	17,718
Total:	15,618	300	300	300	300	300	300	300	17,718
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	15,618	300	300	300	300	300	300	300	17,718
Total:	15,618	300	300	300	300	300	300	300	17,718

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	43,044	21,747	31,800	26,164	38,047	34,737	20,891	19,479	235,909
Total:	43,044	21,747	31,800	26,164	38,047	34,737	20,891	19,479	235,909
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	43,044	21,747	31,800	26,164	38,047	34,737	20,891	19,479	235,909
Total:	43,044	21,747	31,800	26,164	38,047	34,737	20,891	19,479	235,909

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	18,029	1,282	1,000	880	880	-	-	-	22,071
Total:	18,029	1,282	1,000	880	880	-	-	-	22,071
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	18,029	1,282	1,000	880	880	-	-	-	22,071
Total:	18,029	1,282	1,000	880	880	-	-	-	22,071

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.

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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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	4,077	350	150	350	1,000	400	300	500	7,127
Total:	4,077	350	150	350	1,000	400	300	500	7,127
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	4,077	350	150	350	1,000	400	300	500	7,127
Total:	4,077	350	150	350	1,000	400	300	500	7,127

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	145,645	37,272	42,710	34,429	33,246	32,396	34,205	33,060	392,963
Total:	145,645	37,272	42,710	34,429	33,246	32,396	34,205	33,060	392,963
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	145,645	37,272	42,710	34,429	33,246	32,396	34,205	33,060	392,963
Total:	145,645	37,272	42,710	34,429	33,246	32,396	34,205	33,060	392,963

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	35,234	11,598	14,580	9,588	5,141	9,782	15,156	18,166	119,246
Total:	35,234	11,598	14,580	9,588	5,141	9,782	15,156	18,166	119,246
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	35,234	11,598	14,580	9,588	5,141	9,782	15,156	18,166	119,246
Total:	35,234	11,598	14,580	9,588	5,141	9,782	15,156	18,166	119,246

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	59,617	-	-	-	-	-	-	-	59,617
Total:	59,617	-	-	-	-	-	-	-	59,617
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	59,617	-	-	-	-	-	-	-	59,617
Total:	59,617	-	-	-	-	-	-	-	59,617

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	21,439	3,534	2,005	3,400	5,750	7,135	7,350	8,400	59,013
Total:	21,439	3,534	2,005	3,400	5,750	7,135	7,350	8,400	59,013
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	21,439	3,534	2,005	3,400	5,750	7,135	7,350	8,400	59,013
Total:	21,439	3,534	2,005	3,400	5,750	7,135	7,350	8,400	59,013

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	50,885	5,222	10,734	15,647	10,556	11,319	19,066	18,608	142,037
Total:	50,885	5,222	10,734	15,647	10,556	11,319	19,066	18,608	142,037
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	50,885	5,222	10,734	15,647	10,556	11,319	19,066	18,608	142,037
Total:	50,885	5,222	10,734	15,647	10,556	11,319	19,066	18,608	142,037

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.

* 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 - 2030	Neighborhood District:	Multiple
Total Project Cost:	\$640,000	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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	263,762	54,892	107,726	77,573	39,734	5,937	-	-	549,625
King County Funds	47,924	61,066	-	-	-	-	-	-	108,990
Water Rates	-	-	-	-	-	-	-	-	-
Total:	311,686	115,957	107,726	77,573	39,734	5,937	-	-	658,614
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	311,686	115,957	107,726	77,573	39,734	5,937	-	-	658,614
Water Fund	-	-	-	-	-	-	-	-	-
Total:	311,686	115,957	107,726	77,573	39,734	5,937	-	-	658,614

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.

* 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 5 - Construction	Council District:	Council District 1
Start/End Date:	2006 - 2027	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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	55,500	10,934	5,898	10,500	14,175	27,720	13,325	9,080	147,132
Total:	55,500	10,934	5,898	10,500	14,175	27,720	13,325	9,080	147,132
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	55,500	10,934	5,898	10,500	14,175	27,720	13,325	9,080	147,132
Total:	55,500	10,934	5,898	10,500	14,175	27,720	13,325	9,080	147,132

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	7,614	46	-	-	-	-	-	-	7,661
Total:	7,614	46	-	-	-	-	-	-	7,661
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	7,614	46	-	-	-	-	-	-	7,661
Total:	7,614	46	-	-	-	-	-	-	7,661

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.

* 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, plus assistance to Seattle Parks on two other closed landfills.

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 \$123 million over the next six years, from 2024 through 2029.

Major anticipated projects include:

- South Transfer Station Facility Redevelopment.
- Cleanup of the historic South Park Landfill at the South Park Development Project.
- North Transfer Station Compactor Replacement.

These projects comprise approximately 49% of the SWF CIP. Other significant projects include the Waste Removal project at the Midway Landfill, replacing two compactors, floor replacement 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 tipping floor replacement at the South Transfer Station.
- **Level of Service:** The importance of this project in providing or improving services to customers and neighbors. 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

2024-2029 Proposed Solid Waste Fund CIP
(In '000s; total may not sum due to rounding)

BCL	2024	2025	2026	2027	2028	2029	Total
New Facilities	24,162	30,605	8,505	13,920	6,620	17,420	101,232
Rehabilitation & Heavy Eqpt	2,260	150	150	350	300	150	3,360
Shared Cost Projects	2,249	1,727	1,195	1,135	1,175	1,050	8,531
Technology	2,401	1,508	1,508	1,508	1,508	1,508	9,939
Total	31,072	33,989	11,357	16,913	9,602	20,127	123,061

New Facilities: This program includes the planning, design, and construction of new facilities to enhance solid waste operations. 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 2024 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

2024-2029 Proposed Capital Improvement Program

- Project Delivery/Project Controls.

In 2024, 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, the Project Delivery and Performance Program, and the IT Infrastructure Program.

Within the Customer Contact and Billing Program, the next major projects to be developed are the CRM (Customer Relationship Management) for Community Engagement Project, and the Kubra Realtime project. Other projects slated would be the Integrated Security System project, Development Systems Integration Phase 2 project, Construction Contract Management project 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.

2024-2029 Proposed Capital Improvement Program

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 studies to demonstrate the effectiveness of the Kent Highlands landfill closure project, as well as various landfill improvements. The environmental 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, water treatment and mitigating earthquake risks associated with steep slopes.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Rates	830	250	50	50	50	100	50	50	1,430
Total:	830	250	50	50	50	100	50	50	1,430
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Fund	830	250	50	50	50	100	50	50	1,430
Total:	830	250	50	50	50	100	50	50	1,430

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.

* 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 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. The largest effort under this program is the Midway landfill improvement project that funds removal of waste in the WSDOT Right of Way to allow construction of two additional lanes on I-5 and the Sound Transit Federal Way Link project. This is a joint project involving Sound Transit, WSDOT and SPU it is regulated by the Department of Ecology under a Consent Decree Amendment.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Rates	13,095	(1,250)	2,160	50	50	50	50	50	14,255
Water Rates	-	1,500	-	-	-	-	-	-	1,500
Total:	13,095	250	2,160	50	50	50	50	50	15,755
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Fund	13,095	250	2,160	50	50	50	50	50	15,755
Total:	13,095	250	2,160	50	50	50	50	50	15,755

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.

* 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 replacement of the wear surface on the STS tipping floor, replacement of the large refuse compactors and replacement of HVAC/Life Safety components.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Rates	6,072	8,478	14,674	8,470	1,020	12,820	1,620	12,420	65,575
Total:	6,072	8,478	14,674	8,470	1,020	12,820	1,620	12,420	65,575
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Fund	6,072	8,478	14,674	8,470	1,020	12,820	1,620	12,420	65,575
Total:	6,072	8,478	14,674	8,470	1,020	12,820	1,620	12,420	65,575

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Rates	110,234	(3)	-	-	-	-	-	-	110,231
Total:	110,234	(3)	-	-	-	-	-	-	110,231
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Fund	110,234	(3)	-	-	-	-	-	-	110,231
Total:	110,234	(3)	-	-	-	-	-	-	110,231

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

* 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 3 - Design	Council District:	Council District 1
Start/End Date:	2007 - 2027	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 Consent Decree with the Washington Department of Ecology for remediation of the historic South Park Landfill. This project is tied to the STS 2 project and some redesign of remedial elements will be required and construction has been delayed three years to 2023.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Rates	6,073	300	7,100	6,800	500	100	-	-	20,873
Total:	6,073	300	7,100	6,800	500	100	-	-	20,873
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Fund	6,073	300	7,100	6,800	500	100	-	-	20,873
Total:	6,073	300	7,100	6,800	500	100	-	-	20,873

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.

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

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 5 - Construction	Council District:	Council District 1
Start/End Date:	2006 - 2027	Neighborhood District:	Greater Duwamish
Total Project Cost:	\$43,202	Urban Village:	Greater Duwamish

SPU postponed South Transfer Station phase construction and a smaller project is proceeding to complete cleanup work at the old South Park Landfill. SPU decided to postpone development plans (including the construction of the recycling facility) to allow a more holistic evaluation of future needs and job opportunities that best support our zero-waste vision. A recycling facility may still be included in the future plans, but partial development of the site at this time could severely limit what we can do in the future. The scope of the project has been reduced to only include the remediation of the South Park Landfill (required under a Consent Decree), minimal operational improvements, and a path along 5th Avenue to mitigate the street vacation at the new South Transfer Station. The reduced STS2 project will be designed during 2021-2022 and constructed in 2023.

Future site development plans will happen over the next 5 years in a parallel process.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Rates	8,111	3,000	2,388	15,335	6,985	1,000	5,000	5,000	46,818
Water Rates	-	(1,500)	-	-	-	-	-	-	(1,500)
Total:	8,111	1,500	2,388	15,335	6,985	1,000	5,000	5,000	45,318
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Fund	8,111	1,500	2,388	15,335	6,985	1,000	5,000	5,000	45,318
Total:	8,111	1,500	2,388	15,335	6,985	1,000	5,000	5,000	45,318

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Rates	785	(132)	50	50	50	200	200	50	1,254
Total:	785	(132)	50	50	50	200	200	50	1,254
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Solid Waste Fund	785	(132)	50	50	50	200	200	50	1,254
Total:	785	(132)	50	50	50	200	200	50	1,254

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.

** 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, including over 103,000 acres of forested land.
- Three groundwater wells.
- Two primary water treatment plants.
- 11 booster chlorination facilities.
- 325 million gallons of treated water storage.
- 30 pump stations.
- Over 1,900 miles of transmission and distribution system pipelines.
- Almost 200,000 meters and service connections.
- More than 17,000 distribution system valves.
- About 19,000 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 Water 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 \$879 million over the next six years. Major projects include:

- Water system improvements associated with transportation projects, including Move Seattle; East Marginal Way Heavy Haul Corridor; Roosevelt Eastlake Rapid Ride; SR 520 Rest of the West.
- Operational and Regional Facility construction.
- Seismic upgrades of the Eastside and Riverton Reservoirs, the Magnolia Tank, the Trenton Standpipe, and the Cedar River Pipeline in Renton
- Replace the floating cover at Bitter Lake Reservoir with a new 21 MG partially buried circular prestressed concrete tank
- Addressing a slide area through which the Tolt Pipelines pass, upstream of the Tolt Treatment Plant; and
- Relicensing the South Fork Tolt Dam under the Federal Energy Regulatory Commission with Seattle City Light

The 2024-2029 Proposed CIP also includes many ongoing core programs, such as improving the distribution and transmission system water mains, valves, meters, steel storage tanks, and pump stations; watershed stewardship and conservation programs; and facilities, vehicles, and heavy equipment investments. In addition, it includes funding for distribution and transmission system seismic improvement programs stemming from the recent completion of SPU's water system seismic study and federally regulated dam safety improvements at the Tolt Dam.

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 complete construction of a new floating cover on the Lake Forest Park reservoir and will begin construction of a new partially buried concrete tank at the Bitter Lake reservoir location to replace the existing floating covers that 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 such as the 2019 Water System Plan, program plans, and asset management plans), external projects and opportunities (such as transportation projects), and emergencies or other unexpected events. Under SPU’s Asset Management approach, 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, the Cedar River Habitat Conservation Program, and the South Fork Tolt relicensing project.
- **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 Roosevelt Eastlake Rapid Ride.
- **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, or 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, Asset Management Committee and/or Capital Improvement Plan Board. In addition, regional projects that are cost shared with SPU’s wholesale customers are vetted annually through the Seattle Water System Operating Board, which is a board of representatives who have certain limited authority over policy and

operational matters as they affect the Seattle Regional Water Supply System. 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	2024	2025	2026	2027	2028	2029	Total
Distribution	\$44,060	\$57,113	\$65,491	\$65,295	\$59,907	\$74,633	\$366,499
Transmission	\$13,522	\$26,288	\$17,730	\$24,500	\$16,501	\$22,338	\$120,879
Watershed Stewardship	\$4,886	\$1,353	\$2,513	\$1,232	\$1,358	\$908	\$12,249
Water Quality & Treatment	\$6,450	\$5,065	\$16,283	\$29,777	\$30,294	\$23,046	\$110,914
Water Resources	\$16,706	\$13,812	\$7,520	\$5,819	\$17,245	\$16,502	\$77,606
Habitat Conservation Program	\$3,686	\$1,098	\$567	\$616	\$508	\$384	\$6,859
Shared Cost Projects	\$44,593	\$34,035	\$23,637	\$23,931	\$20,182	\$10,710	\$157,089
Technology	\$5,323	\$4,221	\$4,221	\$4,221	\$4,221	\$4,221	\$26,428
Grand Total	\$139,227	\$142,986	\$137,963	\$155,390	\$150,216	\$152,741	\$878,524

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 2024 are primarily due to shifting watermain rehabilitation projects to later years in the 6-year capital plan. In 2025-2029, 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.

Transmission BCL in 2024 is stable. Increases in 2025-2029 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 and provides roughly 35% of SPU’s drinking water supply. 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 South Fork Tolt Municipal Watershed is approximately 12,000 acres, two-thirds of which are owned and managed by the City of Seattle. The Tolt Treatment Facilities, which includes filtration, can provide up to 120 million gallons of drinking water per day.

Increases in the **Watershed Stewardship BCL** in 2024 are primarily due to delays to replace failing culverts with larger fish passable culverts at road crossings in the South Fork Tolt Watershed. The new crossings will 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 focus in the **Water Quality & Treatment BCL** is completion of the Lake Forest Park Reservoir floating cover replacement, and in later CIP years, the Bitter Lake Reservoir Project. The plan for the Bitter Lake Reservoir is construction of a new 21 MG partially buried circular prestressed concrete tank instead of the new floating cover previously considered. Construction of the Lake Forest Park Reservoir replacement cover was completed in 2022, and the Bitter Lake Reservoir Project is targeted to begin construction in 2026.

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, Sockeye Broodstock Weir and other improvements associated with the hatchery and fish ladder, and relicensing of the South Fork Tolt Dam to secure ongoing operations of that water supply source.

Increases in the **Water Resources BCL** in 2024 are due to dam safety projects such as the Tolt Early Warning System Upgrade and Tolt Debris Boom, which are both required to comply with the Federal Energy Regulatory Commission (FERC). Increases in outyears of the 6-year CIP are also due to FERC relicensing requirements at the South Fork Tolt Dam, which SPU will be partnering on with Seattle City Light.

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.

Increases in the **Habitat Conservation Program BCL** in 2024 is tied to the Downstream Fish Habitat Program in the implementation of stream restoration projects in close coordination with King County. Decreases in 2025-2029 are the result of the transitioning of the that Program along with watershed road decommissioning and fish passage programs to the Watershed Stewardship BCL (see notes under C130 – Watershed Stewardship). These programs were previously all under the City's Cedar River Habitat Conservation Program (HCP) and are close to meeting the City's commitments in these program areas.

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.

There have been shifts in the **Shared Cost Projects BCL** primarily due to the East Marginal Way Heavy Haul Corridor and the Roosevelt Eastlake Rapid Ride delays and movement of the Center City Streetcar delay to outyears beyond this 6-year CIP. There are also increases associated with heavy equipment purchases to modernize SPU's fleet.

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 2024 address several of SPU's key initiatives, including:

- Financial Management and Internal Controls
- Operational Excellence and Performance Management
- An Easy and Engaged Customer Experience

2024-2029 Proposed Capital Improvement Program

- Data-driven Decision Support
- Project Delivery/Project Controls

In 2024, 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, the Project Delivery and Performance Program, and the IT Infrastructure Program.

Within the Customer Contact and Billing Program, the next major projects to be developed are the CRM (Customer Relationship Management) for Community Engagement Project, and the Kubra Realtime project. Other projects slated would be the Integrated Security System project, Development Systems Integration Phase 2 project, Construction Contract Management project 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 75% 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 5% 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 65% of the CIP, with the remainder funded by available cash, including 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 water mains. 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 2021, 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 ratepayers 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 2024-2029 Water CIP has been developed to:

- Provide for water system modifications associated with various Seattle and regional transportation projects.
- Recognize the need to invest in the water system’s resiliency in a major earthquake event and continue with 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 invest in critical projects allowing continued reliable service of drinking water to the region’s 1.5 million customers. Emphasis will be on 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, seismic upgrades for critical infrastructure following the 2018 water system seismic study, and dam safety projects.

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:	\$603	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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	502	-	100	-	-	-	-	-	602
Total:	502	-	100	-	-	-	-	-	602
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	502	-	100	-	-	-	-	-	602
Total:	502	-	100	-	-	-	-	-	602

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.

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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 - 2025	Neighborhood District:	Greater Duwamish
Total Project Cost:	\$11,292	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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	11,342	-	50	-	-	-	-	-	11,392
Total:	11,342	-	50	-	-	-	-	-	11,392
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	11,342	-	50	-	-	-	-	-	11,392
Total:	11,342	-	50	-	-	-	-	-	11,392

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.

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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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	6,404	4,616	1,008	3,084	662	4,054	576	3,298	23,701
Total:	6,404	4,616	1,008	3,084	662	4,054	576	3,298	23,701
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	6,404	4,616	1,008	3,084	662	4,054	576	3,298	23,701
Total:	6,404	4,616	1,008	3,084	662	4,054	576	3,298	23,701

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.

* 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 program 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 program area 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	1,893	10	678	195	310	500	425	625	4,636
Total:	1,893	10	678	195	310	500	425	625	4,636
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	1,893	10	678	195	310	500	425	625	4,636
Total:	1,893	10	678	195	310	500	425	625	4,636

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	255	5	5	5	5	5	5	5	290
Total:	255	5	5	5	5	5	5	5	290
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	255	5	5	5	5	5	5	5	290
Total:	255	5	5	5	5	5	5	5	290

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.

* 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 program 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	(1)	-	-	-	-	-	-	-	(1)
Water Rates	11,588	10,985	11,867	6,550	1,845	1,564	13,777	13,957	72,133
Total:	11,587	10,985	11,867	6,550	1,845	1,564	13,777	13,957	72,132
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	(1)	-	-	-	-	-	-	-	(1)
Water Fund	11,588	10,985	11,867	6,550	1,845	1,564	13,777	13,957	72,133
Total:	11,587	10,985	11,867	6,550	1,845	1,564	13,777	13,957	72,132

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.

* 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 program 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	688	28	120	120	120	120	120	120	1,435
Total:	688	28	120	120	120	120	120	120	1,435
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	688	28	120	120	120	120	120	120	1,435
Total:	688	28	120	120	120	120	120	120	1,435

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	2,015	1,000	158	501	2,420	2,392	2,000	2,000	12,486
Total:	2,015	1,000	158	501	2,420	2,392	2,000	2,000	12,486
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	2,015	1,000	158	501	2,420	2,392	2,000	2,000	12,486
Total:	2,015	1,000	158	501	2,420	2,392	2,000	2,000	12,486

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.

* 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 program 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	2,112	160	160	300	300	300	300	300	3,932
Total:	2,112	160	160	300	300	300	300	300	3,932
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	2,112	160	160	300	300	300	300	300	3,932
Total:	2,112	160	160	300	300	300	300	300	3,932

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	-	575	760	1,025	1,950	2,075	450	500	7,335
Total:	-	575	760	1,025	1,950	2,075	450	500	7,335
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	-	575	760	1,025	1,950	2,075	450	500	7,335
Total:	-	575	760	1,025	1,950	2,075	450	500	7,335

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.

* 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 - 2026	Neighborhood District:	Not in a Neighborhood District
Total Project Cost:	\$23,937	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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	16,905	4,745	2,540	50	-	-	-	-	24,240
Total:	16,905	4,745	2,540	50	-	-	-	-	24,240
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	16,905	4,745	2,540	50	-	-	-	-	24,240
Total:	16,905	4,745	2,540	50	-	-	-	-	24,240

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	2,244	(100)	1,141	1,026	2,203	732	933	283	8,462
Total:	2,244	(100)	1,141	1,026	2,203	732	933	283	8,462
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	2,244	(100)	1,141	1,026	2,203	732	933	283	8,462
Total:	2,244	(100)	1,141	1,026	2,203	732	933	283	8,462

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	-	-	-	-	-	-	-	-	-
Water Rates	1,662	200	750	2,000	-	-	-	-	4,612
Total:	1,662	200	750	2,000	-	-	-	-	4,612
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	-	-	-	-	-	-	-	-	-
Water Fund	1,662	200	750	2,000	-	-	-	-	4,612
Total:	1,662	200	750	2,000	-	-	-	-	4,612

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.

* 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 program provides research and monitoring to examine the effects of instream flows on salmon species in the Cedar River. This ongoing program 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 program is a requirement of the Cedar River Habitat Conservation Plan (HCP).

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	1,965	60	100	65	75	40	40	-	2,345
Total:	1,965	60	100	65	75	40	40	-	2,345
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	1,965	60	100	65	75	40	40	-	2,345
Total:	1,965	60	100	65	75	40	40	-	2,345

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	1	500	100	100	100	100	100	100	1,101
Total:	1	500	100	100	100	100	100	100	1,101
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	1	500	100	100	100	100	100	100	1,101
Total:	1	500	100	100	100	100	100	100	1,101

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	3,437	1,823	3,506	6,202	2,277	600	700	700	19,246
Total:	3,437	1,823	3,506	6,202	2,277	600	700	700	19,246
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	3,437	1,823	3,506	6,202	2,277	600	700	700	19,246
Total:	3,437	1,823	3,506	6,202	2,277	600	700	700	19,246

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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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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	491	100	110	120	130	135	140	145	1,371
Total:	491	100	110	120	130	135	140	145	1,371
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	491	100	110	120	130	135	140	145	1,371
Total:	491	100	110	120	130	135	140	145	1,371

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.

* 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 program 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	27,663	983	994	1,019	1,045	1,071	1,097	1,125	34,997
Total:	27,663	983	994	1,019	1,045	1,071	1,097	1,125	34,997
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	27,663	983	994	1,019	1,045	1,071	1,097	1,125	34,997
Total:	27,663	983	994	1,019	1,045	1,071	1,097	1,125	34,997

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	1,109	50	150	155	160	165	170	175	2,134
Total:	1,109	50	150	155	160	165	170	175	2,134
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	1,109	50	150	155	160	165	170	175	2,134
Total:	1,109	50	150	155	160	165	170	175	2,134

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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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 - 2030	Neighborhood District:	Northwest
Total Project Cost:	\$90,192	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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	1,547	1,558	1,250	809	12,033	25,777	26,294	19,046	88,313
Total:	1,547	1,558	1,250	809	12,033	25,777	26,294	19,046	88,313
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	1,547	1,558	1,250	809	12,033	25,777	26,294	19,046	88,313
Total:	1,547	1,558	1,250	809	12,033	25,777	26,294	19,046	88,313

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	10,809	60	156	5	-	-	-	-	11,030
Total:	10,809	60	156	5	-	-	-	-	11,030
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	10,809	60	156	5	-	-	-	-	11,030
Total:	10,809	60	156	5	-	-	-	-	11,030

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	5,592	566	577	589	601	613	625	638	9,801
Total:	5,592	566	577	589	601	613	625	638	9,801
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	5,592	566	577	589	601	613	625	638	9,801
Total:	5,592	566	577	589	601	613	625	638	9,801

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.

* 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 program 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 program is a requirement under the Cedar River Habitat Conservation Plan (HCP).

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	4,579	177	157	269	7	54	124	7	5,374
Total:	4,579	177	157	269	7	54	124	7	5,374
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	4,579	177	157	269	7	54	124	7	5,374
Total:	4,579	177	157	269	7	54	124	7	5,374

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	6,340	1,092	1,385	8,670	10,460	5,262	3,900	10,400	47,509
Total:	6,340	1,092	1,385	8,670	10,460	5,262	3,900	10,400	47,509
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	6,340	1,092	1,385	8,670	10,460	5,262	3,900	10,400	47,509
Total:	6,340	1,092	1,385	8,670	10,460	5,262	3,900	10,400	47,509

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.

* 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:	\$4,011	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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	625	1,604	3,066	132	-	-	-	-	5,427
Total:	625	1,604	3,066	132	-	-	-	-	5,427

Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	625	1,604	3,066	132	-	-	-	-	5,427
Total:	625	1,604	3,066	132	-	-	-	-	5,427

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	20,463	9,255	8,917	14,309	2,066	1,850	1,900	1,950	60,710
Total:	20,463	9,255	8,917	14,309	2,066	1,850	1,900	1,950	60,710
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	20,463	9,255	8,917	14,309	2,066	1,850	1,900	1,950	60,710
Total:	20,463	9,255	8,917	14,309	2,066	1,850	1,900	1,950	60,710

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	473	1,350	3,293	8,570	14,657	18,236	13,650	16,700	76,929
Total:	473	1,350	3,293	8,570	14,657	18,236	13,650	16,700	76,929
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	473	1,350	3,293	8,570	14,657	18,236	13,650	16,700	76,929
Total:	473	1,350	3,293	8,570	14,657	18,236	13,650	16,700	76,929

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	2,182	250	4,995	4,250	4,250	4,000	4,000	4,000	27,927
Total:	2,182	250	4,995	4,250	4,250	4,000	4,000	4,000	27,927
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	2,182	250	4,995	4,250	4,250	4,000	4,000	4,000	27,927
Total:	2,182	250	4,995	4,250	4,250	4,000	4,000	4,000	27,927

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.

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

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	2,921	125	99	99	99	99	99	99	3,640
Total:	2,921	125	99	99	99	99	99	99	3,640
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	2,921	125	99	99	99	99	99	99	3,640
Total:	2,921	125	99	99	99	99	99	99	3,640

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.

* 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 program 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	4,143	2,258	1,400	1,400	1,400	1,400	1,400	1,400	14,801
Total:	4,143	2,258	1,400	1,400	1,400	1,400	1,400	1,400	14,801
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	4,143	2,258	1,400	1,400	1,400	1,400	1,400	1,400	14,801
Total:	4,143	2,258	1,400	1,400	1,400	1,400	1,400	1,400	14,801

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.

* 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 program 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 program also 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	522	(25)	58	59	61	63	65	67	870
Total:	522	(25)	58	59	61	63	65	67	870
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	522	(25)	58	59	61	63	65	67	870
Total:	522	(25)	58	59	61	63	65	67	870

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.

* 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 program 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 program meets City responsibility for new service connections in the Seattle Municipal Code (SMC) to provide reliable drinking water supply to customers.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	43,313	10,456	8,579	8,837	9,102	9,375	9,656	9,917	109,235
Total:	43,313	10,456	8,579	8,837	9,102	9,375	9,656	9,917	109,235
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	43,313	10,456	8,579	8,837	9,102	9,375	9,656	9,917	109,235
Total:	43,313	10,456	8,579	8,837	9,102	9,375	9,656	9,917	109,235

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.

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

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 program 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 program improves Seattle's water system and extends the life of the water distribution system.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	28,958	7,585	7,483	7,707	7,938	8,177	8,422	8,650	84,919
Total:	28,958	7,585	7,483	7,707	7,938	8,177	8,422	8,650	84,919
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	28,958	7,585	7,483	7,707	7,938	8,177	8,422	8,650	84,919
Total:	28,958	7,585	7,483	7,707	7,938	8,177	8,422	8,650	84,919

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.

* 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 program 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 program is that water service is provided to new housing and businesses throughout Seattle.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	9,174	2,520	2,646	2,726	2,808	2,892	2,979	3,059	28,804
Total:	9,174	2,520	2,646	2,726	2,808	2,892	2,979	3,059	28,804
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	9,174	2,520	2,646	2,726	2,808	2,892	2,979	3,059	28,804
Total:	9,174	2,520	2,646	2,726	2,808	2,892	2,979	3,059	28,804

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.

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

Water Supply Flexibility Program

Project No:	MC-SU-C1507	BSL Code:	BC-SU-C150B
Project Type:	Ongoing	BSL Name:	Water Resources
Project Category:	New Investment	Location:	Multiple
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 program improves water system performance, reliability, and flexibility during severe weather events, supply and infrastructure emergencies, as well as enhancing environmental performance for fish and supporting regulatory and policy compliance in these areas. Project improvements include Tolt Reservoir Temperature and the Overflow Dike in Chester Morse Lake, and may include but are not limited to, dam integrity and alternatives to improved crest control, reservoir water temperature, and water quality management. In addition, the S. Fork Tolt Dam is up for relicensing under the Federal Energy Regulatory Commission (FERC), which expires July 19, 2029. The relicensing process will take 5-7 years depending on the relicensing approach taken with Seattle City Light and FERC. Seattle City Light is the Tolt Dam license holder and will lead the relicensing effort but significant support from SPU is anticipated. Both utilities (SPU/SCL) are establishing CIP numbers budgeted for the relicensing process.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	673	1,325	2,518	3,654	3,875	2,050	1,425	725	16,245
Total:	673	1,325	2,518	3,654	3,875	2,050	1,425	725	16,245
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	673	1,325	2,518	3,654	3,875	2,050	1,425	725	16,245
Total:	673	1,325	2,518	3,654	3,875	2,050	1,425	725	16,245

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.

* 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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	23	40	45	50	55	60	65	70	408
Total:	23	40	45	50	55	60	65	70	408
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	23	40	45	50	55	60	65	70	408
Total:	23	40	45	50	55	60	65	70	408

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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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 ten 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	404	-	-	-	155	522	321	58	1,460
Total:	404	-	-	-	155	522	321	58	1,460
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	404	-	-	-	155	522	321	58	1,460
Total:	404	-	-	-	155	522	321	58	1,460

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.

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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 program 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	36,486	15,922	17,700	19,460	26,550	32,535	29,811	37,415	215,879
Total:	36,486	15,922	17,700	19,460	26,550	32,535	29,811	37,415	215,879
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	36,486	15,922	17,700	19,460	26,550	32,535	29,811	37,415	215,879
Total:	36,486	15,922	17,700	19,460	26,550	32,535	29,811	37,415	215,879

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

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	8,387	709	690	615	386	423	245	277	11,733
Total:	8,387	709	690	615	386	423	245	277	11,733
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	8,387	709	690	615	386	423	245	277	11,733
Total:	8,387	709	690	615	386	423	245	277	11,733

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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Seattle Public Utilities

Shared & Technology Projects

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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	6,918	1,127	1,036	832	610	576	490	488	12,078
Solid Waste Rates	1,973	28	30	153	70	10	50	50	2,364
Water Rates	2,539	220	135	167	174	323	373	256	4,188
Total:	11,430	1,375	1,201	1,152	854	909	913	794	18,630
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	6,918	1,127	1,036	832	610	576	490	488	12,078
Solid Waste Fund	1,973	28	30	153	70	10	50	50	2,364
Water Fund	2,539	220	135	167	174	323	373	256	4,188
Total:	11,430	1,375	1,201	1,152	854	909	913	794	18,630

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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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 - 2027	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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	56,336	1,758	309	380	-	-	-	-	58,783
Water Rates	25,331	109	26	22	-	-	-	-	25,488
Total:	81,668	1,867	334	402	-	-	-	-	84,271
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	56,336	1,758	309	380	-	-	-	-	58,783
Water Fund	25,331	109	26	22	-	-	-	-	25,488
Total:	81,668	1,867	334	402	-	-	-	-	84,271

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.

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

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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	2,272	1,177	172	860	860	860	860	860	7,921
Solid Waste Rates	1,151	257	60	300	300	300	300	300	2,968
Water Rates	2,122	(20)	168	840	840	840	840	840	6,470
Total:	5,546	1,414	400	2,000	2,000	2,000	2,000	2,000	17,360
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	2,272	1,177	172	860	860	860	860	860	7,921
Solid Waste Fund	1,151	257	60	300	300	300	300	300	2,968
Water Fund	2,122	(20)	168	840	840	840	840	840	6,470
Total:	5,546	1,414	400	2,000	2,000	2,000	2,000	2,000	17,360

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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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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	10,046	2,021	1,593	430	430	430	430	430	15,810
Solid Waste Rates	5,588	605	556	150	150	150	150	150	7,498
Water Rates	9,722	1,957	1,556	420	420	420	420	420	15,335
Total:	25,356	4,583	3,705	1,000	1,000	1,000	1,000	1,000	38,644
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	10,046	2,021	1,593	430	430	430	430	430	15,810
Solid Waste Fund	5,588	605	556	150	150	150	150	150	7,498
Water Fund	9,722	1,957	1,556	420	420	420	420	420	15,335
Total:	25,356	4,583	3,705	1,000	1,000	1,000	1,000	1,000	38,644

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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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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	1,451	(147)	280	860	860	860	860	860	5,883
Solid Waste Rates	402	165	598	300	300	300	300	300	2,665
Water Rates	1,226	181	273	840	840	840	840	840	5,881
Total:	3,080	199	1,150	2,000	2,000	2,000	2,000	2,000	14,429
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	1,451	(147)	280	860	860	860	860	860	5,883
Solid Waste Fund	402	165	598	300	300	300	300	300	2,665
Water Fund	1,226	181	273	840	840	840	840	840	5,881
Total:	3,080	199	1,150	2,000	2,000	2,000	2,000	2,000	14,429

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 required by SPU crews to perform their work. This equipment transports work crews and tools to job sites and supports the safe and efficient replacement, repair, and maintenance of infrastructures. It also build the infrastructure and telematics system needed to implement a fleet of electric vehicles to reduce SPU's use of fossil fuels and support the City's Drive Clean Seattle Fleet initiative.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	22,458	4,662	3,498	3,817	2,696	2,777	2,870	2,946	45,724
Solid Waste Rates	17,819	3,573	1,358	1,429	1,000	1,000	1,000	1,000	28,179
Water Rates	27,129	2,668	3,060	3,229	2,000	2,000	2,000	2,000	44,086
Total:	67,407	10,902	7,916	8,474	5,696	5,777	5,870	5,946	117,989
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	22,458	4,662	3,498	3,817	2,696	2,777	2,870	2,946	45,724
Solid Waste Fund	17,819	3,573	1,358	1,429	1,000	1,000	1,000	1,000	28,179
Water Fund	27,129	2,668	3,060	3,229	2,000	2,000	2,000	2,000	44,086
Total:	67,407	10,902	7,916	8,474	5,696	5,777	5,870	5,946	117,989

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.

* 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". The project also provides engineering design and civil construction at drainage and wastewater infrastructure monitoring sites. The data produced at these sites is used by operations to predetermine combined sewer overflows (CSO) and engineering modeling and forecasting. The improvements supplied by this project decrease CSO violations in compliance with the City's NPDES permit. Typical improvements include trenching and conduit from power/Telco pole to above ground SCADA cabinet to field monitoring instrumentation. This work will occur at 150 CSS sites.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	1,952	220	250	250	250	250	-	-	3,172
Water Rates	1,095	-	-	-	-	-	-	-	1,095
Total:	3,046	220	250	250	250	250	-	-	4,267
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	1,952	220	250	250	250	250	-	-	3,172
Water Fund	1,095	-	-	-	-	-	-	-	1,095
Total:	3,046	220	250	250	250	250	-	-	4,267

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.

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

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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	1,447	1,910	968	753	753	753	753	753	8,088
Solid Waste Rates	481	450	338	263	263	263	263	263	2,581
Water Rates	2,014	1,541	945	735	735	735	735	735	8,174
Total:	3,943	3,901	2,250	1,750	1,750	1,750	1,750	1,750	18,844
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	1,447	1,910	968	753	753	753	753	753	8,088
Solid Waste Fund	481	450	338	263	263	263	263	263	2,581
Water Fund	2,014	1,541	945	735	735	735	735	735	8,174
Total:	3,943	3,901	2,250	1,750	1,750	1,750	1,750	1,750	18,844

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.

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

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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	8,769	528	533	538	542	451	458	468	12,287
Water Rates	9,519	572	577	582	588	489	497	507	13,331
Total:	18,288	1,100	1,110	1,120	1,130	940	955	975	25,618
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	8,769	528	533	538	542	451	458	468	12,287
Water Fund	9,519	572	577	582	588	489	497	507	13,331
Total:	18,288	1,100	1,110	1,120	1,130	940	955	975	25,618

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 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 is also known as "Bridging the Gap Program."

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	14,143	7,368	7,645	8,253	11,163	12,030	23,260	18,050	101,912
Water Rates	27,563	12,109	15,932	15,472	9,746	3,607	3,500	5,000	92,929
Total:	41,705	19,478	23,577	23,725	20,909	15,637	26,760	23,050	194,841
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	14,143	7,368	7,645	8,253	11,163	12,030	23,260	18,050	101,912
Water Fund	27,563	12,109	15,932	15,472	9,746	3,607	3,500	5,000	92,929
Total:	41,705	19,478	23,577	23,725	20,909	15,637	26,760	23,050	194,841

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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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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	24,735	6,134	5,508	1,200	500	-	-	-	38,078
Solid Waste Rates	465	1,276	636	-	-	-	-	-	2,377
Water Rates	9,366	9,039	2,768	1,000	800	2,150	7,000	2,500	34,624
Total:	34,566	16,450	8,913	2,200	1,300	2,150	7,000	2,500	75,079
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	24,735	6,134	5,508	1,200	500	-	-	-	38,078
Solid Waste Fund	465	1,276	636	-	-	-	-	-	2,377
Water Fund	9,366	9,039	2,768	1,000	800	2,150	7,000	2,500	34,624
Total:	34,566	16,450	8,913	2,200	1,300	2,150	7,000	2,500	75,079

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.

* 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Rates	3,170	-	-	-	-	-	-	-	3,170
Total:	3,170	-	-	-	-	-	-	-	3,170
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Water Fund	3,170	-	-	-	-	-	-	-	3,170
Total:	3,170	-	-	-	-	-	-	-	3,170

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.

** 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	1,066	100	100	100	150	100	100	20	1,736
Water Rates	2,768	750	20,144	10,838	3,805	837	288	297	39,726
Total:	3,834	850	20,244	10,938	3,955	937	388	317	41,462
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	1,066	100	100	100	150	100	100	20	1,736
Water Fund	2,768	750	20,144	10,838	3,805	837	288	297	39,726
Total:	3,834	850	20,244	10,938	3,955	937	388	317	41,462

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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	7,872	2,376	1,556	731	731	731	731	731	15,459
Solid Waste Rates	2,899	480	543	255	255	255	255	255	5,196
Water Rates	8,518	1,344	1,520	714	714	714	714	714	14,952
Total:	19,288	4,200	3,619	1,700	1,700	1,700	1,700	1,700	35,607
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	7,872	2,376	1,556	731	731	731	731	731	15,459
Solid Waste Fund	2,899	480	543	255	255	255	255	255	5,196
Water Fund	8,518	1,344	1,520	714	714	714	714	714	14,952
Total:	19,288	4,200	3,619	1,700	1,700	1,700	1,700	1,700	35,607

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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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. These improvements increase the useful life of the facilities, preserve the value of the assets, and provide a safe working environment.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	4	-	-	-	-	-	-	-	4
Water Rates	29,845	3,250	1,200	2,200	6,150	14,150	6,150	150	63,095
Total:	29,849	3,250	1,200	2,200	6,150	14,150	6,150	150	63,099
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	4	-	-	-	-	-	-	-	4
Water Fund	29,845	3,250	1,200	2,200	6,150	14,150	6,150	150	63,095
Total:	29,849	3,250	1,200	2,200	6,150	14,150	6,150	150	63,099

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.

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

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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	2,095	1,182	882	688	688	688	688	688	7,599
Solid Waste Rates	19	263	308	240	240	240	240	240	1,789
Water Rates	4,813	1,028	861	672	672	672	672	672	10,062
Total:	6,928	2,472	2,050	1,600	1,600	1,600	1,600	1,600	19,450
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	2,095	1,182	882	688	688	688	688	688	7,599
Solid Waste Fund	19	263	308	240	240	240	240	240	1,789
Water Fund	4,813	1,028	861	672	672	672	672	672	10,062
Total:	6,928	2,472	2,050	1,600	1,600	1,600	1,600	1,600	19,450

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.

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

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 SPU 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	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	825	(65)	300	255	225	225	225	-	1,990
Solid Waste Rates	1,241	101	225	145	125	125	125	-	2,087
Water Rates	6,305	1,344	750	525	375	375	375	-	10,049
Total:	8,372	1,380	1,275	925	725	725	725	-	14,126
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	825	(65)	300	255	225	225	225	-	1,990
Solid Waste Fund	1,241	101	225	145	125	125	125	-	2,087
Water Fund	6,305	1,344	750	525	375	375	375	-	10,049
Total:	8,372	1,380	1,275	925	725	725	725	-	14,126

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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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 5 - Construction	Council District:	Multiple
Start/End Date:	2009 - 2028	Neighborhood District:	Multiple
Total Project Cost:	\$30,076	Urban Village:	Multiple

This project plans and relocates SPU assets 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.

Resources	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Rates	4,039	12	220	2,256	3,468	4,744	850	-	15,590
Water Rates	14,582	-	-	-	-	-	-	-	14,582
Total:	18,621	12	220	2,256	3,468	4,744	850	-	30,172
Fund Appropriations / Allocations *	LTD Actuals	2023 Revised	2024	2025	2026	2027	2028	2029	Total
Drainage and Wastewater Fund	4,039	12	220	2,256	3,468	4,744	850	-	15,590
Water Fund	14,582	-	-	-	-	-	-	-	14,582
Total:	18,621	12	220	2,256	3,468	4,744	850	-	30,172

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.

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

