

Seattle Public Utilities

Water

Overview

SPU delivers an average of 120 to 125 million gallons of drinking water per day to more than 1.3 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;
- Two well fields;
- Two primary water treatment plants;
- 11 booster chlorination facilities;
- 354.5 million gallons of treated water storage;
- 30 pump stations;
- Approximately 1,900 miles of transmission and distribution system pipelines;
- Over 188,000 meters and service connections;
- More than 21,000 distribution system valves;
- About 18,000 hydrants;
- Monitoring and control systems; and,
- Various buildings and other related facilities.

The capital program also 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 \$409 million over the next six years. Major projects include:

- Covering of open reservoirs to ensure water purity as required by state regulations;
- Morse Lake Pump Plant changes to improve water storage access;
- Water system improvements associated with transportation projects; and,
- Cedar River watershed investments mandated by the Habitat Conservation Plan (HCP).

The 2014-2019 Proposed CIP also includes many ongoing programs, such as improving the distribution system of water mains, valves, and pump stations, watershed stewardship and conservation projects and programs, and facilities, vehicles, and heavy equipment investments. By 2018, however, the overall CIP will be reduced, and investments will be substantially focused on rehabilitating and replacing infrastructure for delivery of clean drinking water, with continued watershed stewardship.

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. In Spring 2011, Water rates were approved by the Executive and City Council for the period 2012 through 2014. SPU has updated the Water System Plan through 2018, a Washington Department of Health (WDOH) regulatory requirement due every 6 years.

Summary of Upcoming Budget Issues and Challenges

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

Promoting Conservation: The City of Seattle, Seattle residents, and Seattle’s wholesale water partners have worked together to reduce water consumption. As a result, consumption has declined since 1990 and is projected to further decline. In 2010, consumption was 33% below 1990 levels, 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.

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 focus on physical infrastructure rehabilitation. Past investments include water treatment facilities for the Tolt and Cedar supplies, coverings for five open reservoirs in response to federal/state regulations, and investments to meet federal requirements embodied in the Cedar River Watershed HCP. These investments helped secure the supply and distribution of high-quality drinking water and provide appropriate stewardship of the watersheds consistent with federal and state requirements.

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

Responding to the Economy: Recent economic changes help shape the 2014-2019 Proposed Water CIP. Although there are signs of recovery in the national economy, the overall economic downturn continues to impact new development, which is a source of CIP-related Water Fund revenue via the New Taps program. When new housing is brought on line, new services (i.e. New Taps) are required to supply those units with water. Due to the housing decline, since 2008, annual revenue from New Taps decreased 42% through 2012. As the housing market improves, the New Taps revenue is beginning to show signs of rebounding in 2013.

Against the backdrop of these trends, the 2014-2019 Proposed Water CIP has been developed to:

- Preserve the transmission and distribution systems, as well as 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.

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 health and human safety, asset preservation, 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 decommissioning 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 is replacing its open finished drinking water reservoirs with underground structures that will improve water quality and system security. Seismic retrofits are planned for four of the buried reservoirs. SPU plans to decommission Roosevelt Reservoir, and further evaluate the possibility of decommissioning Volunteer Reservoir. However, permanent actions at these two reservoirs are not expected to occur until enough time has elapsed to observe the water system’s performance without them. Additionally, by 2019, SPU will begin constructing new covers on the Lake Forest Park and Bitter Lake reservoirs to replace the existing floating covers that will have reached the end of their useful life.
- 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, but are not limited to, installing water-efficient fixtures, such as aerating showerheads and faucets, low water-use toilets and efficient clothes washers. The program is cooperatively managed by SPU and the City’s Human Services Department.

Project Selection Criteria

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

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

Priority rankings are based on the following set of criteria:

- **Regulatory Mandates, Legal Agreements:** The degree to which a project is driven by federal, state, and local laws, permit and regulatory requirements, and consent decrees; as well as by legal agreements with public and private parties. Examples of highly ranked projects in this category include the reservoir covering programs and the Habitat Conservation Program.
- **External Drivers:** SPU’s responsiveness to, or engagement with, projects of other Departments or Jurisdictions, and the specific mandates of the City Council and Mayor. Examples of highly ranked projects in this category include the Alaskan Way Viaduct, Yesler Terrace, and Mercer Corridor projects.
- **Infrastructure:** How a project addresses infrastructure conditions or vulnerabilities. Examples of highly ranked projects in this category include the Watermain Rehabilitation, Distribution System Improvements and Tank Improvements programs.
- **Level of Service:** The importance of a project in providing or improving services to customers. Examples of highly ranked projects in this category include the Water Infrastructure – New Taps and Service Renewals programs.
- **Other Factors:** Other important factors include high net present value or cost-effectiveness, social or environmental benefits not otherwise captured, a project already in progress or near completion, limited time opportunity, demonstration projects, community visibility, outside funding. An example of a highly ranked project in this category includes Rattlesnake Lake Sanitary Facilities.

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 Director and Asset Management Committee. Project priority rankings are used to clarify and document which projects are most important (and why), to help determine which projects at the margin will be included or excluded

(or deferred) from the CIP, and which projects should receive priority attention if a staff or financial resource constraint should arise.

In recent years, this prioritization process and business case analysis has resulted in decisions to retire or downsize some facilities, primarily finished water reservoirs, and defer some capital projects. Retiring facilities reduces capital expenditures since these facilities are in need of major improvements (such as seismic retrofits) that are avoided, as well as reduces annual operating costs since the level of maintenance is greatly reduced. Downsizing or retiring storage facilities is possible because the need for storage has changed over time as the system has been reconfigured, transmission and treatment has become more reliable, and demands, particularly for fire flows, have declined.

Some examples of retirements are:

- Richmond Highlands Tanks (decommissioning the smaller of two): \$1.8 million in capital cost savings;
- Foy Standpipe: \$2 million in capital cost savings;
- Myrtle Tank #1: \$900,000 in capital cost savings;
- Roosevelt Reservoir: \$24 million in capital cost savings;
- Volunteer Reservoir retirement is under consideration (\$25 million in potential capital savings since this reservoir would have to be buried if it were kept in service); and,
- Lincoln, Beacon and West Seattle Reservoirs were downsized based on demand analysis.

Some examples of deferrals are:

- Landsburg Flood Passage Improvements to improve woody debris management and performance during high flood flows at Landsburg Diversion (\$5M): Moved to 2013 and scope downsized;
- Cedar Falls Facilities Development to improve buildings and office space at Cedar Falls Headquarters: Shifted start of planning from 2009 to 2011. Construction shifted from 2012 to 2017; and
- Desktop and laptop replacement frequency lengthened.

Aligning Infrastructure with Planned Growth

In its Water System Plan updates, SPU forecasts water demands to meet the growth projections as planned for in Seattle's most recent Comprehensive Plan and ensures that there will be adequate water supply for at least the next 20 years. These growth projections include expected residential and commercial growth into designated Urban Centers and Urban Villages. The 2013 Water System Plan indicates that new sources of supply would not be needed until sometime after 2060.

Growth-based infrastructure needs in Urban Centers and Urban Villages are addressed through specific programs in the Water CIP, including water main extensions, new water connections for new construction, fire flow improvements, and water main rehabilitations. The water distribution system in these areas is fairly robust, and needed improvements are generally located within areas where the land use is changed from single family zoning to a more intensive use needing higher flows for firefighting. Projects containing these improvements are evaluated through a business case process and are prioritized among the other projects in the CIP.

Future Projects/What is on the Horizon

The Water CIP is coming to the end of a 20-year 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, Reservoir Covering Program, the Cedar River Watershed HCP, 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.

There is only one remaining large project, Morse Lake Pump Plant, and a few special mid-range programs, such as seismic retrofitting of reservoirs, and programs related to transportation projects and improvements to SPU facilities. The Morse Lake Pump Plant project provides for reliable release of water from Morse Lake into the Cedar River. This is necessary to maintain the supply of drinking water to the region and meet regulatory minimums for the amount of “in-stream flows” in the river to support aquatic habitat, wetlands, riparian vegetation, and water quality.

Beyond these projects, emphasis will be on asset management based rehabilitation and replacement of distribution system infrastructure (e.g. mains, valves, hydrants, meters). Example of such projects to date are the 3rd Ave West PRVs project, which installed new pressure reducing valves (PRVs) in the Ballard neighborhood, and the WM Ship Canal Crossing at 3rd Ave West project, which rehabilitates a failing watermain (WM) underneath the Ship Canal Bridge. There is significant planning and analysis work involved in applying asset management and determining the appropriate level of CIP versus operating and maintenance work needed for each asset, and shifting the workforce accordingly.

CIP Revenue Sources

SPU’s Water CIP is funded largely by Water ratepayers. About 71% of the Water Fund’s overall revenues come from retail ratepayers, split approximately evenly between residential and commercial customers. Another 23% of the Water Fund’s overall revenues come from wholesale purveyors who serve surrounding jurisdictions. The remaining 6% consists of non-rate revenue, which includes such things as tap fees received and developer watermain reimbursements. SPU issues bonds, serviced by ratepayers, which in the current rate period cover 49% of the CIP, with the remainder funded by cash, i.e. directly by ratepayer revenue.

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

CIP Spending by Major Category

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

Water Fund	2014	2015	2016	2017	2018	2019	Total
DISTRIBUTION	22,600	21,451	24,773	23,307	25,728	27,180	145,038
TRANSMISSION	2,916	5,636	2,823	2,721	2,773	2,827	19,695
WATERSHED STEWARDSHIP	227	106	551	551	250	250	1,935
WATER QUALITY AND TREATMENT	11,279	9,821	249	100	100	1,280	22,830
WATER RESOURCES	4,215	13,167	24,976	11,073	3,953	3,612	60,995
HABITAT CONSERVATION	2,610	2,375	2,680	2,121	1,934	1,941	13,661
SHARED COST	23,387	18,957	15,880	11,764	13,280	15,393	98,662
TECHNOLOGY	9,389	10,004	7,783	7,178	7,185	5,090	46,630
Total	76,624	81,516	79,716	58,816	55,203	57,571	409,445

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

Increases in the **Distribution BCL** for 2014, compared to amounts adopted in 2013 in the 2013-2018 CIP, reflect a Watermain Rehabilitation project near Seward Park to replace corroded watermain located in corrosive soils on an accelerated schedule, and a Multiple Utility Relocation project that provides necessary modifications to pipes and related infrastructure in support of the City of Shoreline's Aurora Avenue North project. Reductions in 2015 reflect Tank Improvement projects starting in 2016 rather than 2015 as initially anticipated.

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 water from the treatment facilities to Seattle and to other local utilities that purchase a portion of SPU's supply for their customers.

Reductions in the **Transmission BCL** in 2014 compared to amounts adopted in 2013 in the 2013-2018 CIP, are primarily due to delays in 2013 of the presentation of plans for the Cathodic Protection program to SPU's Asset Management Committee. This program will begin to accelerate in 2015. An increase in

2014-2019 Proposed Capital Improvement Program

2015 reflects critical work in the Transmission Pipelines Rehabilitation program in response to a slide area through which the Tolt Pipelines traverse.

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. Three of these projects are being carried out in response to the Endangered Species Act’s designation of the Chinook salmon as a threatened species.

- The Cedar River Municipal Watershed is 90,638 acres of land owned by the City of Seattle and provides about 70% of the drinking water used by over 1.3 million people in the greater Seattle area. 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 smaller and lesser known but still essential second supply watershed in SPU’s freshwater supply system. Located in the foothills of the Cascades in east King County, it first came on-line in 1964, and since 1989 has also supported a small Seattle City Light hydro-electric facility. The Tolt Treatment Facilities can provide up to 120 million gallons of drinking water per day.

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 treatment facilities and burying five reservoirs that contain already treated water that is distributed directly to Seattle residents and wholesale customers for drinking purposes.

The **Water Quality and Treatment BCL** increase in 2014 and 2015 compared to the same years adopted in the 2013-2018 CIP reflects a new approach to expedite design and construction for all four reservoirs as well as adding construction costs for both Maple Leaf and Myrtle reservoirs (both had only accounted for design costs up to this point). Additionally, the increase reflects changes to the Landsburg Chlorination project at the Landsburg Facility. The current major issue that is affecting cost and schedule at Landsburg is the Puget Sound Energy (PSE) power pole relocation and King County building permit process.

Water Resources: The purpose of this program category is to manage our water resources to meet anticipated demands and in-stream flow requirements – the amount of water provided to the river to support aquatic habitat, wetlands, riparian vegetation, and water quality – and to promote residential and commercial water conservation. The requirements for in-stream flows are detailed in agreements with state and federal agencies and include provisions for minimum stream flows in the Cedar and South Fork Tolt Rivers. Examples of the types of projects in this category include the Dam Safety Program and the Morse Lake Pump Plant. The Morse Lake Pump Plant is one of the last big investments contemplated in the Water CIP in this decade.

Reductions in the **Water Resources BCL** in 2014 compared to amounts adopted in the 2013-2018 CIP, are primarily due to delays with the Morse Lake Pump Plant, which is pushing construction to start in late

2015. Schedule delays are due to additional departmental reviews of the project and permit requirements that could impact design.

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 70% of the region’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.

The size of the **Habitat Conservation Program BCL** decreases over the course of the six-year CIP as major capital projects required under the Habitat Conservation Plan agreement are completed and land-acquisition commitments are satisfied.

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. In 2014, the Shared Cost program includes funding for a number of interdepartmental projects including the Alaskan Way Viaduct and Seawall Replacement, Yesler Terrace, Mercer Corridor and Sound Transit Link Light Rail. Funding is also included for SPU’s Heavy Equipment Purchases, the Integrated Control Monitoring Program and a number of smaller projects.

The Shared Cost Projects BCL increases in 2014 and 2015 compared to the Adopted 2013-2018 CIP. Primary drivers of the increase include the Operations Control Center Main Warehouse Ventilation project, with increased costs related to a higher than anticipated consultant contract; and the Landsburg Facility Upgrades which added an antenna tower and is mitigating the addition of a power pole relocation. The Alaskan Way Viaduct project costs have also been revised to reflect the latest estimates.

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 2014 and 2015 address SPU’s key initiatives, which focus on:

- Improving Internal Controls,
- Improving Productivity and Performance

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- Improving Customer Service
- Transitioning from Data Rich to Knowledge Rich
- Improving Project Delivery

The 2014-2019 Proposed CIP increases Technology CIP spending for all utility funds by \$2.8 million in 2014 and \$10.4 million in 2015 as compared to the 2013-2018 Adopted CIP. The Water Utility's Technology CIP amount increases by \$0.79 million in 2014 and by \$3.65 million in 2015. These amounts are based on the Water Utility's share of benefit from these projects.

Project Summary

BCL/Program Name/									
Project Title & ID	LTD Actuals	2013	2014	2015	2016	2017	2018	2019	Total
Distribution									C110B
Chamber Upgrades - Distribution (C1137)	22	38	27	27	28	28	29	29	227
Distribution System Improvements (C1128)	2,786	1,556	3,530	3,800	4,800	5,490	5,500	5,800	33,262
Distribution System In-Line Gate Valves (C1136)	564	300	318	325	331	338	345	351	2,873
Multiple Utility Relocation (C1133)	5,114	2,136	1,839	541	552	563	574	586	11,904
Pump Station Improvements (C1135)	233	200	250	541	552	563	574	586	3,499
Tank Improvements (C1134)	4,161	120	0	500	2,500	0	0	500	7,781
Water Infrastructure - Distribution System Modifications (C1138)	0	200	200	200	200	200	200	200	1,400
Water Infrastructure - Hydrant Replacement/Relocation (C1110)	4,667	364	371	379	386	394	402	410	7,374
Water Infrastructure - New Hydrants (C1112)	514	104	106	108	110	113	115	117	1,287
Water Infrastructure - New Taps (C1113)	94,646	5,000	4,900	5,000	5,100	5,200	5,300	5,406	130,552
Water Infrastructure - Service Renewal (C1109)	96,458	5,722	5,837	5,953	6,072	6,194	6,318	6,444	138,998
Water Infrastructure - Watermain Extensions (C1111)	12,861	800	796	812	828	845	862	1,000	18,803
Watermain Rehabilitation (C1129)	5,649	3,866	4,426	3,264	3,313	3,379	5,509	5,750	35,156
Distribution	227,674	20,406	22,600	21,451	24,773	23,307	25,728	27,180	393,118
Transmission									C120B
Cathodic Protection Program (C1208)	608	350	1,219	1,848	1,082	1,104	1,126	1,149	8,486
Purveyor Meters Replace - SPU (C1206)	690	100	102	104	106	108	111	113	1,433
Replace Air Valve Chambers (C1209)	1,647	112	117	122	125	125	127	130	2,505
Transmission Pipelines Rehabilitation (C1207)	2,963	1,040	1,376	3,457	1,404	1,276	1,299	1,322	14,137
Water System Dewatering (C1205)	179	100	102	104	106	108	111	113	922
Transmission	6,086	1,703	2,916	5,636	2,823	2,721	2,773	2,827	27,484

*Amounts in thousands of dollars

2014 - 2019 Proposed Capital Improvement Program

Project Summary

BCL/Program Name/ Project Title & ID	LTD Actuals	2013	2014	2015	2016	2017	2018	2019	Total
Watershed Stewardship									C130B
Cedar Bridges (C1307)	1,618	1	1	1	1	1	250	250	2,123
Environmental Stewardship (C1301)	0	0	200	100	100	100	0	0	500
Tolt Bridges (C1308)	0	1	0	0	450	450	0	0	901
Tolt Watershed Restoration (C1310)	288	28	6	5	0	0	0	0	327
Transmission Right-of-Way Improvements (C1316)	1	70	20	0	0	0	0	0	91
Watershed Stewardship	1,907	100	227	106	551	551	250	250	3,942
Water Quality & Treatment									C140B
Landsburg Chlorination Upgrades (C1417)	172	524	1,016	865	29	0	0	0	2,606
Reservoir Covering-Bitter Lake (C1419)	0	0	0	0	0	0	0	590	590
Reservoir Covering - Beacon (C1408)	41,916	650	925	4,243	50	0	0	0	47,784
Reservoir Covering - Maple Leaf (C1411)	38,059	1,250	4,760	3,328	50	0	0	0	47,447
Reservoir Covering - Myrtle (C1410)	12,273	50	315	1,235	20	0	0	0	13,893
Reservoir Covering - Volunteer (C1407)	97	20	0	0	0	0	0	0	117
Reservoir Covering - West Seattle (C1409)	33,644	750	4,020	50	0	0	0	0	38,464
Reservoir Covering-Lake Forest Park (C1418)	0	0	0	0	0	0	0	590	590
Treatment Facility/Water Quality Improvements (C1413)	186	30	100	100	100	100	100	100	816
Water Quality Equipment (C1414)	249	140	143	1	0	0	0	0	533
Water Quality & Treatment	126,596	3,414	11,279	9,821	249	100	100	1,280	152,840
Water Resources									C150B
Dam Safety Program (C1506)	6,714	315	150	2,025	1,432	1,040	800	800	13,276
Morse Lake Pump Plant (C1508)	12,639	3,800	1,372	7,119	18,788	6,846	0	0	50,563
Regional Water Conservation Program (C1504)	17,526	1,769	1,803	1,839	1,876	1,914	1,952	1,991	30,671
Seattle Direct Service Additional Conservation (C1505)	5,724	676	690	704	718	732	747	762	10,751

*Amounts in thousands of dollars

2014 - 2019 Proposed Capital Improvement Program

Project Summary

BCL/Program Name/ Project Title & ID	LTD Actuals	2013	2014	2015	2016	2017	2018	2019	Total
Water Supply Flexibility Program (C1507)	333	669	200	1,480	2,052	0	0	0	4,735
Water System Plan - 2019 (C1510)	0	0	0	0	110	541	454	59	1,164
Water Resources	42,937	7,229	4,215	13,167	24,976	11,073	3,953	3,612	111,160
Habitat Conservation Program									C160B
Ballard Locks Improvements (C1606)	9,145	0	0	0	200	200	200	200	9,945
Cedar Sockeye Hatchery (C1605)	21,380	46	205	100	40	0	0	0	21,771
Downstream Fish Habitat (C1607)	3,687	435	520	460	595	215	0	0	5,912
Instream Flow Management Studies (C1608)	4,782	229	204	208	212	216	221	225	6,298
Stream & Riparian Restoration (C1602)	7,232	383	394	395	397	292	292	292	9,678
Upland Reserve Forest Restoration (C1603)	6,850	530	283	188	192	132	135	115	8,425
Watershed Road Improvement/Decommissioning (C1601)	11,170	984	1,004	1,023	1,044	1,066	1,087	1,108	18,486
Habitat Conservation Program	64,247	2,606	2,610	2,375	2,680	2,121	1,934	1,941	80,514
Shared Cost Projects									C410B
1% for Art – WF (C4118-WF)	1,225	181	125	109	64	66	70	71	1,912
Alaskan Way Viaduct & Seawall Replacement Program - WF (C4102-WF)	5,107	2,430	4,682	3,074	2,380	930	803	284	19,690
Bridging the Gap - WF (C4119-WF)	6,113	1,572	1,604	1,636	1,668	100	100	100	12,893
Emergency Storms - WF (C4120-WF)	95	50	105	100	100	100	100	100	750
First Hill Streetcar - WF (C4130-WF)	0	0	150	500	1,000	50	0	0	1,700
Heavy Equipment Purchases - WF (C4116-WF)	8,427	3,618	2,600	2,566	2,000	2,000	2,000	2,000	25,210
Integrated Control Monitoring Program - WF (C4108-WF)	7,385	446	405	480	480	480	480	480	10,636
Mercer Corridor Project East Phase - WF (C4114-WF)	3,428	520	30	0	0	0	0	0	3,978
Mercer Corridor Project West Phase - WF (C4133-WF)	162	939	455	320	0	0	0	0	1,875
Meter Replacement - WF (C4101-WF)	4,666	707	634	645	655	666	683	689	9,345

*Amounts in thousands of dollars

2014 - 2019 Proposed Capital Improvement Program

Project Summary

BCL/Program Name/									
Project Title & ID	LTD Actuals	2013	2014	2015	2016	2017	2018	2019	Total
Operational Facility - Construction - WF (C4106- WF)	14,724	1,416	1,492	1,048	690	2,829	3,450	5,155	30,804
Operational Facility - Other - WF (C4115-WF)	973	276	256	300	300	0	0	0	2,105
Operations Control Center - WF (C4105-WF)	4,555	170	1,630	76	122	431	623	783	8,390
Other Major Transportation Projects - WF (C4123-WF)	36	290	265	54	105	50	300	500	1,601
Regional Facility - WF (C4107 -WF)	3,713	3,321	6,515	5,781	4,418	2,200	2,825	3,425	32,197
Security Improvements - WF (C4113-WF)	6,228	2,000	1,713	2,038	1,788	1,763	1,771	1,731	19,031
Sound Transit - North Link - WF (C4135-WF)	58	87	300	125	100	100	75	75	920
Sound Transit - Water Betterment (C4125)	1,502	0	50	50	0	0	0	0	1,602
Sound Transit – University Link - WF (C4110-WF)	329	202	137	41	10	0	0	0	719
Sound Transit-East Link (C4122-WF)	0	0	40	15	0	0	0	0	55
Yesler Terrace-WF (C4136- WF)	0	0	200	0	0	0	0	0	200
Shared Cost Projects	68,726	18,226	23,387	18,957	15,880	11,764	13,280	15,393	185,613
Technology							BCL/Program Code:		C510B
Asset Information Management (C5407)	3,725	2,188	1,060	1,048	1,048	1,093	1,120	910	12,192
Customer Contact & Billing (C5402)	663	5,423	4,214	3,782	1,579	1,648	1,689	550	19,549
Enterprise Information Management (C5403)	66	525	940	1,043	1,123	484	598	1,150	5,929
IT Infrastructure (C5404)	1,630	1,215	1,369	990	1,364	858	1,628	968	10,022
Project Delivery & Performance (C5405)	2,444	1,615	1,533	2,261	1,789	2,095	1,229	1,012	13,979
Science & System Performance (C5406)	75	0	272	880	880	1,000	921	500	4,529
Technology	8,603	10,966	9,389	10,004	7,783	7,178	7,185	5,090	66,199
Department Total*:	546,776	64,649	76,624	81,516	79,716	58,816	55,203	57,571	1,020,871

*Amounts in thousands of dollars

2014 - 2019 Proposed Capital Improvement Program

Fund Summary

Fund Name & Code	LTD Actuals	2013	2014	2015	2016	2017	2018	2019	Total
Water Fund (43000)	546,776	64,649	76,624	81,516	79,716	58,816	55,203	57,571	1,020,871
Department Total*:	546,776	64,649	76,624	81,516	79,716	58,816	55,203	57,571	1,020,871

**Amounts in thousands of dollars*

1% for Art – WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q1/2001
Project ID:	C4118-WF	End Date:	ONGOING
Location:	N/A		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

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

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	1,225	181	125	109	64	66	70	71	1,912
Total:	1,225	181	125	109	64	66	70	71	1,912
Fund Appropriations/Allocations									
Water Fund	1,225	181	125	109	64	66	70	71	1,912
Total*:	1,225	181	125	109	64	66	70	71	1,912
O & M Costs (Savings)			19	19	19	19	19	19	115

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2014 - 2019 Proposed Capital Improvement Program

Alaskan Way Viaduct & Seawall Replacement Program - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	New Facility	Start Date:	Q1/2004
Project ID:	C4102-WF	End Date:	Q4/2019
Location:	SR 99 / Battery St		
Neighborhood Plan:	In more than one Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

This program 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 Program” (AWVSR Program.) 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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	5,107	2,430	4,682	3,074	2,380	930	803	284	19,690
Total:	5,107	2,430	4,682	3,074	2,380	930	803	284	19,690
Fund Appropriations/Allocations									
Water Fund	5,107	2,430	4,682	3,074	2,380	930	803	284	19,690
Total*:	5,107	2,430	4,682	3,074	2,380	930	803	284	19,690
O & M Costs (Savings)			197	197	197	197	197	197	1,181
Spending Plan by Fund									
Water Fund		1,080	4,682	3,074	2,380	930	803	284	13,233
Total:		1,080	4,682	3,074	2,380	930	803	284	13,233

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2014 - 2019 Proposed Capital Improvement Program

Ballard Locks Improvements

BCL/Program Name:	Habitat Conservation Program	BCL/Program Code:	C160B
Project Type:	Improved Facility	Start Date:	Q1/2000
Project ID:	C1606	End Date:	Q4/2020
Location:	NW 54th St /30th Ave NW		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Ballard	Urban Village:	Ballard Interbay

This program 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 program is a requirement of the Cedar River Habitat Conservation Plan (HCP.)

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	9,145	0	0	0	200	200	200	200	9,945
Total:	9,145	0	0	0	200	200	200	200	9,945
Fund Appropriations/Allocations									
Water Fund	9,145	0	0	0	200	200	200	200	9,945
Total*:	9,145	0	0	0	200	200	200	200	9,945
O & M Costs (Savings)			99	99	99	99	99	99	597

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2014 - 2019 Proposed Capital Improvement Program

Bridging the Gap - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q1/2008
Project ID:	C4119-WF	End Date:	ONGOING
Location:	Various		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

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

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	6,113	1,572	1,604	1,636	1,668	100	100	100	12,893
Total:	6,113	1,572	1,604	1,636	1,668	100	100	100	12,893
Fund Appropriations/Allocations									
Water Fund	6,113	1,572	1,604	1,636	1,668	100	100	100	12,893
Total*:	6,113	1,572	1,604	1,636	1,668	100	100	100	12,893
O & M Costs (Savings)			129	129	129	129	129	129	774
Spending Plan by Fund									
Water Fund		572	1,604	1,636	1,668	100	100	100	5,780
Total:		572	1,604	1,636	1,668	100	100	100	5,780

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2014 - 2019 Proposed Capital Improvement Program

Cathodic Protection Program

BCL/Program Name:	Transmission	BCL/Program Code:	C120B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2004
Project ID:	C1208	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	608	350	1,219	1,848	1,082	1,104	1,126	1,149	8,486
Total:	608	350	1,219	1,848	1,082	1,104	1,126	1,149	8,486
Fund Appropriations/Allocations									
Water Fund	608	350	1,219	1,848	1,082	1,104	1,126	1,149	8,486
Total*:	608	350	1,219	1,848	1,082	1,104	1,126	1,149	8,486
O & M Costs (Savings)			85	85	85	85	85	85	509

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2014 - 2019 Proposed Capital Improvement Program

Cedar Bridges

BCL/Program Name:	Watershed Stewardship	BCL/Program Code:	C130B
Project Type:	Improved Facility	Start Date:	Q1/2007
Project ID:	C1307	End Date:	ONGOING
Location:	Cedar River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This program replaces aging bridges and related structures, such as abutments, asphalt approaches, and guardrails in the Cedar River Watershed. Projects within this program improve 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 also maintains compliance with state laws, safety and environmental regulations, and tribal access agreements including Washington Department of Natural Resources (WDNR) forest practice regulations, Washington Department of Health (DOH) Watershed Protection Plan regulations, and Cedar River Habitat Conservation Plan (HCP) restoration commitments.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	1,618	1	1	1	1	1	250	250	2,123
Total:	1,618	1	1	1	1	1	250	250	2,123
Fund Appropriations/Allocations									
Water Fund	1,618	1	1	1	1	1	250	250	2,123
Total*:	1,618	1	1	1	1	1	250	250	2,123
O & M Costs (Savings)			21	21	21	21	21	21	127
Spending Plan by Fund									
Water Fund		0	1	1	1	1	250	250	504
Total:		0	1	1	1	1	250	250	504

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2014 - 2019 Proposed Capital Improvement Program

Cedar Sockeye Hatchery

BCL/Program Name:	Habitat Conservation Program	BCL/Program Code:	C160B
Project Type:	New Facility	Start Date:	Q1/2000
Project ID:	C1605	End Date:	Q2/2016
Location:	Cedar River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This program provides a sockeye salmon hatchery to replace the interim hatchery on the Cedar River at Landsburg Dam, and includes a broodstock collection facility in Renton near the I-405 overpass, and a state-of-the-art hatchery facility located near the Landsburg Dam. These facilities are a requirement of the Cedar River Habitat Conservation Plan (HCP).

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	21,380	46	205	100	40	0	0	0	21,771
Total:	21,380	46	205	100	40	0	0	0	21,771
Fund Appropriations/Allocations									
Water Fund	21,380	46	205	100	40	0	0	0	21,771
Total*:	21,380	46	205	100	40	0	0	0	21,771
O & M Costs (Savings)			218	218	218	218	218	218	1,306
Spending Plan by Fund									
Water Fund		295	205	100	40	0	0	0	640
Total:		295	205	100	40	0	0	0	640

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2014 - 2019 Proposed Capital Improvement Program

Chamber Upgrades - Distribution

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2003
Project ID:	C1137	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	In more than one Urban Village

This ongoing project improves access to the 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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	22	38	27	27	28	28	29	29	227
Total:	22	38	27	27	28	28	29	29	227
Fund Appropriations/Allocations									
Water Fund	22	38	27	27	28	28	29	29	227
Total*:	22	38	27	27	28	28	29	29	227
O & M Costs (Savings)			2	2	2	2	2	2	14
Spending Plan by Fund									
Water Fund		50	27	27	28	28	29	29	217
Total:		50	27	27	28	28	29	29	217

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Dam Safety Program

BCL/Program Name:	Water Resources	BCL/Program Code:	C150B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2008
Project ID:	C1506	End Date:	ONGOING
Location:	N/A		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	6,714	315	150	2,025	1,432	1,040	800	800	13,276
Total:	6,714	315	150	2,025	1,432	1,040	800	800	13,276
Fund Appropriations/Allocations									
Water Fund	6,714	315	150	2,025	1,432	1,040	800	800	13,276
Total*:	6,714	315	150	2,025	1,432	1,040	800	800	13,276
O & M Costs (Savings)			133	133	133	133	133	133	797
Spending Plan by Fund									
Water Fund		315	150	2,025	1,432	1,040	800	800	6,562
Total:		315	150	2,025	1,432	1,040	800	800	6,562

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Distribution System Improvements

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	Improved Facility	Start Date:	Q1/2003
Project ID:	C1128	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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 watermain 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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	2,786	1,556	3,530	3,800	4,800	5,490	5,500	5,800	33,262
Total:	2,786	1,556	3,530	3,800	4,800	5,490	5,500	5,800	33,262
Fund Appropriations/Allocations									
Water Fund	2,786	1,556	3,530	3,800	4,800	5,490	5,500	5,800	33,262
Total*:	2,786	1,556	3,530	3,800	4,800	5,490	5,500	5,800	33,262
O & M Costs (Savings)			333	333	333	333	333	333	1,996
Spending Plan by Fund									
Water Fund		3,133	3,530	3,800	4,800	5,490	5,500	5,800	32,053
Total:		3,133	3,530	3,800	4,800	5,490	5,500	5,800	32,053

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Distribution System In-Line Gate Valves

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/1999
Project ID:	C1136	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	564	300	318	325	331	338	345	351	2,873
Total:	564	300	318	325	331	338	345	351	2,873
Fund Appropriations/Allocations									
Water Fund	564	300	318	325	331	338	345	351	2,873
Total*:	564	300	318	325	331	338	345	351	2,873
O & M Costs (Savings)			29	29	29	29	29	29	172
Spending Plan by Fund									
Water Fund		300	318	325	331	338	345	351	2,308
Total:		300	318	325	331	338	345	351	2,308

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Downstream Fish Habitat

BCL/Program Name:	Habitat Conservation Program	BCL/Program Code:	C160B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2001
Project ID:	C1607	End Date:	Q4/2017
Location:	Cedar River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This ongoing program 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 mainstem of the Cedar River. Although this is an ongoing program, no work is currently planned for 2018. This program is a requirement of the Cedar River Habitat Conservation Plan (HCP.)

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	3,687	435	520	460	595	215	0	0	5,912
Total:	3,687	435	520	460	595	215	0	0	5,912
Fund Appropriations/Allocations									
Water Fund	3,687	435	520	460	595	215	0	0	5,912
Total*:	3,687	435	520	460	595	215	0	0	5,912
O & M Costs (Savings)			59	59	59	59	59	59	355
Spending Plan by Fund									
Water Fund		1,248	520	460	595	215	0	0	3,038
Total:		1,248	520	460	595	215	0	0	3,038

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Emergency Storms - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Rehabilitation or Restoration	Start Date:	Q3/2007
Project ID:	C4120-WF	End Date:	ONGOING
Location:	Various		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

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

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	95	50	105	100	100	100	100	100	750
Total:	95	50	105	100	100	100	100	100	750
Fund Appropriations/Allocations									
Water Fund	95	50	105	100	100	100	100	100	750
Total*:	95	50	105	100	100	100	100	100	750
O & M Costs (Savings)			8	8	8	8	8	8	45
Spending Plan by Fund									
Water Fund		0	105	100	100	100	100	100	605
Total:		0	105	100	100	100	100	100	605

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Environmental Stewardship

BCL/Program Name:	Watershed Stewardship	BCL/Program Code:	C130B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2014
Project ID:	C1301	End Date:	Q4/2017
Location:			
Neighborhood Plan:	Not in Neighborhood Plan	Neighborhood Plan Matrix:	
Neighborhood District:		Urban Village:	

This 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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	0	0	200	100	100	100	0	0	500
Total:	0	0	200	100	100	100	0	0	500
Fund Appropriations/Allocations									
Water Fund	0	0	200	100	100	100	0	0	500
Total*:	0	0	200	100	100	100	0	0	500
O & M Costs (Savings)			5	5	5	5	5	5	30

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

First Hill Streetcar - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q1/2010
Project ID:	C4130-WF	End Date:	Q4/2017
Location:	First Hill		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

This project plans and relocates water facilities that will be impacted by the SDOT-led First Hill Streetcar project, 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 planning phase.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	0	0	150	500	1,000	50	0	0	1,700
Total:	0	0	150	500	1,000	50	0	0	1,700
Fund Appropriations/Allocations									
Water Fund	0	0	150	500	1,000	50	0	0	1,700
Total*:	0	0	150	500	1,000	50	0	0	1,700
O & M Costs (Savings)			17	17	17	17	17	17	102

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Heavy Equipment Purchases - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	New Investment	Start Date:	ONGOING
Project ID:	C4116-WF	End Date:	ONGOING
Location:	N/A		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This ongoing program provides SPU's Water Utility crews with new and replacement heavy equipment that is used throughout Seattle and King County. Typical purchases include backhoes, graders, loaders, dozers, service trucks, and dump trucks. This equipment transports work crews and tools to jobsites and supports the safe and efficient replacement, repair, and maintenance of infrastructure that delivers high quality drinking water to 1.5 million customers in King County. This project is one of four SPU fund-specific heavy equipment CIP projects.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	8,427	3,618	2,600	2,566	2,000	2,000	2,000	2,000	25,210
Total:	8,427	3,618	2,600	2,566	2,000	2,000	2,000	2,000	25,210
Fund Appropriations/Allocations									
Water Fund	8,427	3,618	2,600	2,566	2,000	2,000	2,000	2,000	25,210
Total*:	8,427	3,618	2,600	2,566	2,000	2,000	2,000	2,000	25,210
O & M Costs (Savings)			252	252	252	252	252	252	1,513
Spending Plan by Fund									
Water Fund		2,929	2,600	2,566	2,000	2,000	2,000	2,000	16,095
Total:		2,929	2,600	2,566	2,000	2,000	2,000	2,000	16,095

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2014 - 2019 Proposed Capital Improvement Program

Instream Flow Management Studies

BCL/Program Name:	Habitat Conservation Program	BCL/Program Code:	C160B
Project Type:	Improved Facility	Start Date:	Q4/2003
Project ID:	C1608	End Date:	ONGOING
Location:	Cedar River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

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

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	4,782	229	204	208	212	216	221	225	6,298
Total:	4,782	229	204	208	212	216	221	225	6,298
Fund Appropriations/Allocations									
Water Fund	4,782	229	204	208	212	216	221	225	6,298
Total*:	4,782	229	204	208	212	216	221	225	6,298
O & M Costs (Savings)			63	63	63	63	63	63	378
Spending Plan by Fund									
Water Fund		200	204	208	212	216	221	225	1,487
Total:		200	204	208	212	216	221	225	1,487

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2014 - 2019 Proposed Capital Improvement Program

Integrated Control Monitoring Program - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	New Investment	Start Date:	Q1/2002
Project ID:	C4108-WF	End Date:	ONGOING
Location:	Various		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This ongoing program funds improvements to the centralized monitoring and control of the drinking water portion of the overall Supervisory Control and Data Acquisition (SCADA) system infrastructure throughout King County. Infrastructure affected may include, but is not limited to, flow and pressure sensors, remote control pumps, and valves. This program enhances the delivery and quality of drinking water and the delivery of water to fire hydrants, also known as "fire flow."

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	7,385	446	405	480	480	480	480	480	10,636
Total:	7,385	446	405	480	480	480	480	480	10,636
Fund Appropriations/Allocations									
Water Fund	7,385	446	405	480	480	480	480	480	10,636
Total*:	7,385	446	405	480	480	480	480	480	10,636
O & M Costs (Savings)			106	106	106	106	106	106	638
Spending Plan by Fund									
Water Fund		660	405	480	480	480	480	480	3,465
Total:		660	405	480	480	480	480	480	3,465

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Landsburg Chlorination Upgrades

BCL/Program Name:	Water Quality & Treatment	BCL/Program Code:	C140B
Project Type:	Improved Facility	Start Date:	Q1/2011
Project ID:	C1417	End Date:	Q4/2016
Location:	Cedar River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This project constructs new sodium hypochlorite (liquid) chlorination facilities at the Landsburg Cedar River Diversion Facilities. The project will enhance safety and site security through replacement of the aging gas chlorine facilities at the site.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	172	524	1,016	865	29	0	0	0	2,606
Total:	172	524	1,016	865	29	0	0	0	2,606
Fund Appropriations/Allocations									
Water Fund	172	524	1,016	865	29	0	0	0	2,606
Total*:	172	524	1,016	865	29	0	0	0	2,606
O & M Costs (Savings)			26	26	26	26	26	26	156
Spending Plan by Fund									
Water Fund		266	1,016	865	29	0	0	0	2,177
Total:		266	1,016	865	29	0	0	0	2,177

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2014 - 2019 Proposed Capital Improvement Program

Mercer Corridor Project East Phase - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q1/2007
Project ID:	C4114-WF	End Date:	Q4/2014
Location:	South Lake Union		
Neighborhood Plan:	South Lake Union	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Lake Union	Urban Village:	South Lake Union

This program funds the repair, relocation, protection, and upgrade of water infrastructure related to the redevelopment of the South Lake Union neighborhood. This effort identifies SPU water system direct impacts, opportunities for system improvements, and cost responsibility. This program also funds planning-level coordination with other City departments on projects within the South Lake Union area.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	3,428	520	30	0	0	0	0	0	3,978
Total:	3,428	520	30	0	0	0	0	0	3,978
Fund Appropriations/Allocations									
Water Fund	3,428	520	30	0	0	0	0	0	3,978
Total*:	3,428	520	30	0	0	0	0	0	3,978
O & M Costs (Savings)			40	40	40	40	40	40	239
Spending Plan by Fund									
Water Fund		300	30	0	0	0	0	0	330
Total:		300	30	0	0	0	0	0	330

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2014 - 2019 Proposed Capital Improvement Program

Mercer Corridor Project West Phase - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q1/2010
Project ID:	C4133-WF	End Date:	Q4/2015
Location:	Mercer ST /Elliot AVE W/Dexter AVE N		
Neighborhood Plan:	In more than one Plan	Neighborhood Plan Matrix:	T01, T02, T03, T11, T15
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

This project provides water utility improvements and relocations related to the Mercer Corridor Project, West phase. Work in this project will convert Mercer Street to a two-way street between Dexter Ave and Elliott Ave West. The Mercer underpass at Aurora Ave will be widened to allow for six travel lanes and a bicycle/pedestrian shared use path between Dexter Ave and 5th Ave North. Roy Street, between Aurora and Queen Anne Ave., will also be converted to a two-way street with on-road bicycle lanes.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	162	939	455	320	0	0	0	0	1,875
Total:	162	939	455	320	0	0	0	0	1,875
Fund Appropriations/Allocations									
Water Fund	162	939	455	320	0	0	0	0	1,875
Total*:	162	939	455	320	0	0	0	0	1,875
O & M Costs (Savings)			19	19	19	19	19	19	112
Spending Plan by Fund									
Water Fund		675	455	320	0	0	0	0	1,449
Total:		675	455	320	0	0	0	0	1,449

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2014 - 2019 Proposed Capital Improvement Program

Meter Replacement - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2004
Project ID:	C4101-WF	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

This ongoing program 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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	4,666	707	634	645	655	666	683	689	9,345
Total:	4,666	707	634	645	655	666	683	689	9,345
Fund Appropriations/Allocations									
Water Fund	4,666	707	634	645	655	666	683	689	9,345
Total*:	4,666	707	634	645	655	666	683	689	9,345
O & M Costs (Savings)			93	93	93	93	93	93	561

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2014 - 2019 Proposed Capital Improvement Program

Morse Lake Pump Plant

BCL/Program Name:	Water Resources	BCL/Program Code:	C150B
Project Type:	Improved Facility	Start Date:	Q1/2003
Project ID:	C1508	End Date:	Q4/2017
Location:	Cedar River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This project includes funding to replace the existing barge-mounted pump plants at Chester Morse Lake. The pump plants at Chester Morse Lake are nearing the end of their useful lives. These pumps are designed for drought situations to access so-called "dead storage" at the lake, which is at or below the level that drains by gravity. The improvements enhance the ability to provide reliable water supply and in-stream flows in the Cedar River during drought conditions and to address requirements of the Habitat Conservation Plan. Most pre-2012 costs are deferred costs that will be amortized over ten years.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	12,639	3,800	1,372	7,119	18,788	6,846	0	0	50,563
Total:	12,639	3,800	1,372	7,119	18,788	6,846	0	0	50,563
Fund Appropriations/Allocations									
Water Fund	12,639	3,800	1,372	7,119	18,788	6,846	0	0	50,563
Total*:	12,639	3,800	1,372	7,119	18,788	6,846	0	0	50,563
O & M Costs (Savings)			506	506	506	506	506	506	3,034
Spending Plan by Fund									
Water Fund		3,800	1,372	7,119	18,788	6,846	0	0	37,924
Total:		3,800	1,372	7,119	18,788	6,846	0	0	37,924

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2014 - 2019 Proposed Capital Improvement Program

Multiple Utility Relocation

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2007
Project ID:	C1133	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	5,114	2,136	1,839	541	552	563	574	586	11,904
Total:	5,114	2,136	1,839	541	552	563	574	586	11,904
Fund Appropriations/Allocations									
Water Fund	5,114	2,136	1,839	541	552	563	574	586	11,904
Total*:	5,114	2,136	1,839	541	552	563	574	586	11,904
O & M Costs (Savings)			119	119	119	119	119	119	714
Spending Plan by Fund									
Water Fund		1,430	1,839	541	552	563	574	586	6,085
Total:		1,430	1,839	541	552	563	574	586	6,085

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2014 - 2019 Proposed Capital Improvement Program

Operational Facility - Construction - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q1/2004
Project ID:	C4106-WF	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	Not in an Urban Village

This ongoing facilities program renovates, rehabilitates, and 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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	14,724	1,416	1,492	1,048	690	2,829	3,450	5,155	30,804
Total:	14,724	1,416	1,492	1,048	690	2,829	3,450	5,155	30,804
Fund Appropriations/Allocations									
Water Fund	14,724	1,416	1,492	1,048	690	2,829	3,450	5,155	30,804
Total*:	14,724	1,416	1,492	1,048	690	2,829	3,450	5,155	30,804
O & M Costs (Savings)			308	308	308	308	308	308	1,848
Spending Plan by Fund									
Water Fund		1,571	1,492	1,048	690	2,829	3,450	5,155	16,235
Total:		1,571	1,492	1,048	690	2,829	3,450	5,155	16,235

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2014 - 2019 Proposed Capital Improvement Program

Operational Facility - Other - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q4/2006
Project ID:	C4115-WF	End Date:	ONGOING
Location:	Various		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	Not in an Urban Village

This ongoing facilities program provides funding to purchase, replace, or install new building materials or building equipment 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, water systems, prefabricated buildings, storage buildings, and fencing. Specific projects have been identified through 2016. As future projects are identified, necessary funding will be requested.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	973	276	256	300	300	0	0	0	2,105
Total:	973	276	256	300	300	0	0	0	2,105
Fund Appropriations/Allocations									
Water Fund	973	276	256	300	300	0	0	0	2,105
Total*:	973	276	256	300	300	0	0	0	2,105
O & M Costs (Savings)			21	21	21	21	21	21	126
Spending Plan by Fund									
Water Fund		276	256	300	300	0	0	0	1,132
Total:		276	256	300	300	0	0	0	1,132

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Operations Control Center - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q1/2003
Project ID:	C4105-WF	End Date:	ONGOING
Location:	2700 Airport Way S		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Greater Duwamish	Urban Village:	Duwamish

This ongoing facilities program renovates, rehabilitates, and 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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	4,555	170	1,630	76	122	431	623	783	8,390
Total:	4,555	170	1,630	76	122	431	623	783	8,390
Fund Appropriations/Allocations									
Water Fund	4,555	170	1,630	76	122	431	623	783	8,390
Total*:	4,555	170	1,630	76	122	431	623	783	8,390
O & M Costs (Savings)			84	84	84	84	84	84	503
Spending Plan by Fund									
Water Fund		134	1,630	76	122	431	623	783	3,799
Total:		134	1,630	76	122	431	623	783	3,799

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Other Major Transportation Projects - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Rehabilitation or Restoration	Start Date:	Q2/2008
Project ID:	C4123-WF	End Date:	ONGOING
Location:	Various		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This ongoing program funds Water 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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	36	290	265	54	105	50	300	500	1,601
Total:	36	290	265	54	105	50	300	500	1,601
Fund Appropriations/Allocations									
Water Fund	36	290	265	54	105	50	300	500	1,601
Total*:	36	290	265	54	105	50	300	500	1,601
O & M Costs (Savings)			16	16	16	16	16	16	96
Spending Plan by Fund									
Water Fund		80	265	54	105	50	300	500	1,355
Total:		80	265	54	105	50	300	500	1,355

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2014 - 2019 Proposed Capital Improvement Program

Pump Station Improvements

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	Rehabilitation or Restoration	Start Date:	Q3/2008
Project ID:	C1135	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	233	200	250	541	552	563	574	586	3,499
Total:	233	200	250	541	552	563	574	586	3,499
Fund Appropriations/Allocations									
Water Fund	233	200	250	541	552	563	574	586	3,499
Total*:	233	200	250	541	552	563	574	586	3,499
O & M Costs (Savings)			35	35	35	35	35	35	210
Spending Plan by Fund									
Water Fund		100	250	541	552	563	574	586	3,167
Total:		100	250	541	552	563	574	586	3,167

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Purveyor Meters Replace - SPU

BCL/Program Name:	Transmission	BCL/Program Code:	C120B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2000
Project ID:	C1206	End Date:	ONGOING
Location:	Regional		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	690	100	102	104	106	108	111	113	1,433
Total:	690	100	102	104	106	108	111	113	1,433
Fund Appropriations/Allocations									
Water Fund	690	100	102	104	106	108	111	113	1,433
Total*:	690	100	102	104	106	108	111	113	1,433
O & M Costs (Savings)			14	14	14	14	14	14	86
Spending Plan by Fund									
Water Fund		200	102	104	106	108	111	113	844
Total:		200	102	104	106	108	111	113	844

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2014 - 2019 Proposed Capital Improvement Program

Regional Facility - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q1/2007
Project ID:	C4107-WF	End Date:	ONGOING
Location:	Various		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

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

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	3,713	3,321	6,515	5,781	4,418	2,200	2,825	3,425	32,197
Total:	3,713	3,321	6,515	5,781	4,418	2,200	2,825	3,425	32,197
Fund Appropriations/Allocations									
Water Fund	3,713	3,321	6,515	5,781	4,418	2,200	2,825	3,425	32,197
Total*:	3,713	3,321	6,515	5,781	4,418	2,200	2,825	3,425	32,197
O & M Costs (Savings)			322	322	322	322	322	322	1,932
Spending Plan by Fund									
Water Fund		2,291	6,515	5,781	4,418	2,200	2,825	3,425	27,455
Total:		2,291	6,515	5,781	4,418	2,200	2,825	3,425	27,455

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2014 - 2019 Proposed Capital Improvement Program

Regional Water Conservation Program

BCL/Program Name:	Water Resources	BCL/Program Code:	C150B
Project Type:	Improved Facility	Start Date:	Q1/1999
Project ID:	C1504	End Date:	ONGOING
Location:	Citywide Plus Wholesale		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	17,526	1,769	1,803	1,839	1,876	1,914	1,952	1,991	30,671
Total:	17,526	1,769	1,803	1,839	1,876	1,914	1,952	1,991	30,671
Fund Appropriations/Allocations									
Water Fund	17,526	1,769	1,803	1,839	1,876	1,914	1,952	1,991	30,671
Total*:	17,526	1,769	1,803	1,839	1,876	1,914	1,952	1,991	30,671
O & M Costs (Savings)			307	307	307	307	307	307	1,840
Spending Plan by Fund									
Water Fund		1,768	1,803	1,839	1,876	1,914	1,952	1,991	13,144
Total:		1,768	1,803	1,839	1,876	1,914	1,952	1,991	13,144

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2014 - 2019 Proposed Capital Improvement Program

Replace Air Valve Chambers

BCL/Program Name:	Transmission	BCL/Program Code:	C120B
Project Type:	Rehabilitation or Restoration	Start Date:	Q3/1999
Project ID:	C1209	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	Not in an Urban Village

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

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	1,647	112	117	122	125	125	127	130	2,505
Total:	1,647	112	117	122	125	125	127	130	2,505
Fund Appropriations/Allocations									
Water Fund	1,647	112	117	122	125	125	127	130	2,505
Total*:	1,647	112	117	122	125	125	127	130	2,505
O & M Costs (Savings)			25	25	25	25	25	25	150

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2014 - 2019 Proposed Capital Improvement Program

Reservoir Covering-Bitter Lake

BCL/Program Name:	Water Quality & Treatment	BCL/Program Code:	C140B
Project Type:	Improved Facility	Start Date:	Q1/2019
Project ID:	C1419	End Date:	Q4/2020
Location:	N 143rd St and Linden Ave N		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Northwest	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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	0	0	0	0	0	0	0	590	590
Total:	0	0	0	0	0	0	0	590	590
Fund Appropriations/Allocations									
Water Fund	0	0	0	0	0	0	0	590	590
Total*:	0	0	0	0	0	0	0	590	590
O & M Costs (Savings)			0	0	0	0	0	6	6

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2014 - 2019 Proposed Capital Improvement Program

Reservoir Covering - Beacon

BCL/Program Name:	Water Quality & Treatment	BCL/Program Code:	C140B
Project Type:	Improved Facility	Start Date:	Q1/2001
Project ID:	C1408	End Date:	Q4/2016
Location:	S Spokane St/Beacon Ave S		
Neighborhood Plan:	North Beacon Hill	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Greater Duwamish	Urban Village:	Not in an Urban Village

This project will construct a 50 million gallon reinforced concrete buried reservoir in compliance with new state and federal regulations and improves water quality as well as the security of the drinking water system. It is part of the reservoir burying program which was adopted by Ordinance 120899 in August 2002.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	41,916	650	925	4,243	50	0	0	0	47,784
Total:	41,916	650	925	4,243	50	0	0	0	47,784
Fund Appropriations/Allocations									
Water Fund	41,916	650	925	4,243	50	0	0	0	47,784
Total*:	41,916	650	925	4,243	50	0	0	0	47,784
O & M Costs (Savings)			478	478	478	478	478	478	2,867
Spending Plan by Fund									
Water Fund		650	925	4,243	50	0	0	0	5,868
Total:		650	925	4,243	50	0	0	0	5,868

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2014 - 2019 Proposed Capital Improvement Program

Reservoir Covering - Maple Leaf

BCL/Program Name:	Water Quality & Treatment	BCL/Program Code:	C140B
Project Type:	Improved Facility	Start Date:	Q4/2001
Project ID:	C1411	End Date:	Q2/2016
Location:	NE 86th St/Roosevelt Wy NE		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	North	Urban Village:	Not in an Urban Village

This project will construct a 60 million gallon, dual-cell, reinforced concrete buried reservoir in compliance with new state and federal regulations. This effort improves water quality and the security of the drinking water system. It is part of the Reservoir burying program which was adopted by Ordinance 120899 in August 2002.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	38,059	1,250	4,760	3,328	50	0	0	0	47,447
Total:	38,059	1,250	4,760	3,328	50	0	0	0	47,447
Fund Appropriations/Allocations									
Water Fund	38,059	1,250	4,760	3,328	50	0	0	0	47,447
Total*:	38,059	1,250	4,760	3,328	50	0	0	0	47,447
O & M Costs (Savings)			474	474	474	474	474	474	2,847

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2014 - 2019 Proposed Capital Improvement Program

Reservoir Covering - Myrtle

BCL/Program Name:	Water Quality & Treatment	BCL/Program Code:	C140B
Project Type:	Improved Facility	Start Date:	Q4/2001
Project ID:	C1410	End Date:	Q4/2016
Location:	SW Myrtle St/35th Ave SW		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Southwest	Urban Village:	Not in an Urban Village

This project will construct a 5 million gallon reinforced concrete buried reservoir in compliance with new state and federal regulations. This effort improves water quality and the security of the drinking water system. It is part of the Reservoir burying program which was adopted by Ordinance 120899 in August 2002.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	12,273	50	315	1,235	20	0	0	0	13,893
Total:	12,273	50	315	1,235	20	0	0	0	13,893
Fund Appropriations/Allocations									
Water Fund	12,273	50	315	1,235	20	0	0	0	13,893
Total*:	12,273	50	315	1,235	20	0	0	0	13,893
O & M Costs (Savings)			139	139	139	139	139	139	834

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2014 - 2019 Proposed Capital Improvement Program

Reservoir Covering - Volunteer

BCL/Program Name:	Water Quality & Treatment	BCL/Program Code:	C140B
Project Type:	Improved Facility	Start Date:	Q4/2001
Project ID:	C1407	End Date:	Q4/2013
Location:	E Prospect St./12th Ave. E		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	East District	Urban Village:	Capitol Hill

This project will either reconstruct the 20 million gallon concrete-lined reservoir in compliance with new state and federal regulations, or remove it from service and construct a bypass pipe system around the Reservoir. SPU will be taking the reservoir offline in 2013 to evaluate the impact to the water system. Pending the outcome of the evaluation, the reservoir will either be decommissioned or buried and SPU will seek appropriations for those costs when more information is available. Permanent action is not expected to occur until after Maple Leaf Reservoir is completed and the City has had an opportunity to take the Volunteer Reservoir off-line for a period of time to observe the water system's performance without it. Thus no spending is planned between 2014 and 2016. LTD expenditures in this project are related to preliminary engineering. This effort improves water quality and the security of the drinking water system and is part of the Reservoir burying program which was adopted by Ordinance 120899 in August 2002.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	97	20	0	0	0	0	0	0	117
Total:	97	20	0	0	0	0	0	0	117
Fund Appropriations/Allocations									
Water Fund	97	20	0	0	0	0	0	0	117
Total*:	97	20	0	0	0	0	0	0	117
O & M Costs (Savings)			1	1	1	1	1	1	7
Spending Plan by Fund									
Water Fund		100	0	0	0	0	0	0	100
Total:		100	0	0	0	0	0	0	100

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2014 - 2019 Proposed Capital Improvement Program

Reservoir Covering - West Seattle

BCL/Program Name:	Water Quality & Treatment	BCL/Program Code:	C140B
Project Type:	Improved Facility	Start Date:	Q4/2001
Project ID:	C1409	End Date:	Q1/2015
Location:	SW Henderson St/8th Ave SW		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Delridge	Urban Village:	Not in an Urban Village

This project will construct a 30 million gallon reinforced concrete buried reservoir in compliance with new state and federal regulations. This effort improves water quality and the security of the drinking water system. It is part of the Reservoir burying program which was adopted by Ordinance 120899 in August 2002.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	33,644	750	4,020	50	0	0	0	0	38,464
Total:	33,644	750	4,020	50	0	0	0	0	38,464
Fund Appropriations/Allocations									
Water Fund	33,644	750	4,020	50	0	0	0	0	38,464
Total*:	33,644	750	4,020	50	0	0	0	0	38,464
O & M Costs (Savings)			385	385	385	385	385	385	2,308

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2014 - 2019 Proposed Capital Improvement Program

Reservoir Covering-Lake Forest Park

BCL/Program Name:	Water Quality & Treatment	BCL/Program Code:	C140B
Project Type:	Improved Facility	Start Date:	Q1/2019
Project ID:	C1418	End Date:	Q4/2020
Location:			
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Outside Seattle City	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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	0	0	0	0	0	0	0	590	590
Total:	0	0	0	0	0	0	0	590	590
Fund Appropriations/Allocations									
Water Fund	0	0	0	0	0	0	0	590	590
Total*:	0	0	0	0	0	0	0	590	590
O & M Costs (Savings)			0	0	0	0	0	6	6

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2014 - 2019 Proposed Capital Improvement Program

Seattle Direct Service Additional Conservation

BCL/Program Name:	Water Resources	BCL/Program Code:	C150B
Project Type:	Improved Facility	Start Date:	Q1/2001
Project ID:	C1505	End Date:	ONGOING
Location:	Citywide & Direct Service		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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 Program (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. The program is cooperatively managed by SPU and the City's Human Services Department and requires an annual report to be provided to Council.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	5,724	676	690	704	718	732	747	762	10,751
Total:	5,724	676	690	704	718	732	747	762	10,751
Fund Appropriations/Allocations									
Water Fund	5,724	676	690	704	718	732	747	762	10,751
Total*:	5,724	676	690	704	718	732	747	762	10,751
O & M Costs (Savings)			108	108	108	108	108	108	645

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2014 - 2019 Proposed Capital Improvement Program

Security Improvements - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q1/2005
Project ID:	C4113-WF	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	Not in an Urban Village

This ongoing program funds physical, integrated security system components on water infrastructure throughout the City. Components may include, but are not limited to, fences, gates, access control card readers, intercoms, lighting, door and hatch contacts, CCTV cameras, motion detection devices, and fiber and conduit. This program enhances protection of SPU's critical infrastructure and addresses vulnerabilities identified in U.S. Environmental Protection Agency (EPA) mandated vulnerability assessments.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	6,228	2,000	1,713	2,038	1,788	1,763	1,771	1,731	19,031
Total:	6,228	2,000	1,713	2,038	1,788	1,763	1,771	1,731	19,031
Fund Appropriations/Allocations									
Water Fund	6,228	2,000	1,713	2,038	1,788	1,763	1,771	1,731	19,031
Total*:	6,228	2,000	1,713	2,038	1,788	1,763	1,771	1,731	19,031
O & M Costs (Savings)			190	190	190	190	190	190	1,142
Spending Plan by Fund									
Water Fund		2,000	1,713	2,038	1,788	1,763	1,771	1,731	12,803
Total:		2,000	1,713	2,038	1,788	1,763	1,771	1,731	12,803

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2014 - 2019 Proposed Capital Improvement Program

Sound Transit - North Link - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	New Facility	Start Date:	Q1/2012
Project ID:	C4135-WF	End Date:	Q4/2020
Location:	Various		
Neighborhood Plan:	In more than one Plan	Neighborhood Plan Matrix:	
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

This program funds relocation, replacement, and protection of water infrastructure affected by the development of Sound Transit's Link Light Rail System. Sound Transit is constructing the third segment of their electrical light rail transit system that includes 4.3 mile light rail extension, three additional stations, and other supporting facilities from the University of Washington to Northgate.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	58	87	300	125	100	100	75	75	920
Total:	58	87	300	125	100	100	75	75	920
Fund Appropriations/Allocations									
Water Fund	58	87	300	125	100	100	75	75	920
Total*:	58	87	300	125	100	100	75	75	920
O & M Costs (Savings)			9	9	9	9	9	9	55

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2014 - 2019 Proposed Capital Improvement Program

Sound Transit - Water Betterment

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	Improved Facility	Start Date:	Q1/2014
Project ID:	C4125	End Date:	Q4/2015
Location:	Central & South areas of Seattle		
Neighborhood Plan:	In more than one Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

This project funds improvements to water mains and appurtenances (hydrants, valves, coatings, cathodic protection, etc.) affected by the development of Sound Transit's Light Rail System. These improvements are "opportunity" projects that become available and are cost effective as Sound Transit constructs Light Rail and rebuilds the street right-of-way. This project covers Sound Transit's alignment within SPU's service area, including the South Link to SeaTac International Airport, the University Link, and the North Link towards Northgate.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	1,502	0	50	50	0	0	0	0	1,602
Total:	1,502	0	50	50	0	0	0	0	1,602
Fund Appropriations/Allocations									
Water Fund	1,502	0	50	50	0	0	0	0	1,602
Total*:	1,502	0	50	50	0	0	0	0	1,602
O & M Costs (Savings)			16	16	16	16	16	16	96

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2014 - 2019 Proposed Capital Improvement Program

Sound Transit – University Link - WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	New Facility	Start Date:	Q1/2007
Project ID:	C4110-WF	End Date:	Q2/2016
Location:	Various		
Neighborhood Plan:	In more than one Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

This program funds relocation, replacement, and protection of water system infrastructure affected by the development of Sound Transit's Link Light Rail System. Sound Transit is constructing the second segment of their electrical light rail transit system that includes 3.15 miles of tunnel, two additional stations, and other supporting facilities from downtown to the University of Washington.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	329	202	137	41	10	0	0	0	719
Total:	329	202	137	41	10	0	0	0	719
Fund Appropriations/Allocations									
Water Fund	329	202	137	41	10	0	0	0	719
Total*:	329	202	137	41	10	0	0	0	719
O & M Costs (Savings)			7	7	7	7	7	7	43
Spending Plan by Fund									
Water Fund		202	137	41	10	0	0	0	390
Total:		202	137	41	10	0	0	0	390

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2014 - 2019 Proposed Capital Improvement Program

Sound Transit-East Link

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	New Facility	Start Date:	Q2/2013
Project ID:	C4122-WF	End Date:	Q4/2015
Location:	Various		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This program funds relocation, replacement, and protection of water infrastructure affected by the development of Sound Transit's Link Light Rail System. Sound Transit is constructing the next segment of their electrical light rail transit system that includes 14 mile light rail extension, 10 additional stations total (one in Seattle) and other supporting facilities from the International District (ID) across I-90 to Bellevue/Redmond.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	0	0	40	15	0	0	0	0	55
Total:	0	0	40	15	0	0	0	0	55
Fund Appropriations/Allocations									
Water Fund	0	0	40	15	0	0	0	0	55
Total*:	0	0	40	15	0	0	0	0	55
O & M Costs (Savings)			1	1	1	1	1	1	3

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2014 - 2019 Proposed Capital Improvement Program

Stream & Riparian Restoration

BCL/Program Name:	Habitat Conservation Program	BCL/Program Code:	C160B
Project Type:	Rehabilitation or Restoration	Start Date:	Q2/2000
Project ID:	C1602	End Date:	ONGOING
Location:	Cedar River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

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

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	7,232	383	394	395	397	292	292	292	9,678
Total:	7,232	383	394	395	397	292	292	292	9,678
Fund Appropriations/Allocations									
Water Fund	7,232	383	394	395	397	292	292	292	9,678
Total*:	7,232	383	394	395	397	292	292	292	9,678
O & M Costs (Savings)			97	97	97	97	97	97	581
Spending Plan by Fund									
Water Fund		377	394	395	397	292	292	292	2,440
Total:		377	394	395	397	292	292	292	2,440

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Tank Improvements

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2008
Project ID:	C1134	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	4,161	120	0	500	2,500	0	0	500	7,781
Total:	4,161	120	0	500	2,500	0	0	500	7,781
Fund Appropriations/Allocations									
Water Fund	4,161	120	0	500	2,500	0	0	500	7,781
Total*:	4,161	120	0	500	2,500	0	0	500	7,781
O & M Costs (Savings)			78	78	78	78	78	78	467
Spending Plan by Fund									
Water Fund		135	0	500	2,500	0	0	500	3,635
Total:		135	0	500	2,500	0	0	500	3,635

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2014 - 2019 Proposed Capital Improvement Program

Tolt Bridges

BCL/Program Name:	Watershed Stewardship	BCL/Program Code:	C130B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2004
Project ID:	C1308	End Date:	ONGOING
Location:	Tolt River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This program replaces aging bridges on forest roads in the Tolt River Watershed, including Chuck Judd Creek Bridge and Siwash Creek Bridge. It improves aging bridge assets 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. This program maintains compliance with state laws and safety and environmental regulations, including Washington Department of Natural Resources (WDNR) forest practice regulations and Washington Department of Health (DOH) Watershed Protection Plan regulations.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	0	1	0	0	450	450	0	0	901
Total:	0	1	0	0	450	450	0	0	901
Fund Appropriations/Allocations									
Water Fund	0	1	0	0	450	450	0	0	901
Total*:	0	1	0	0	450	450	0	0	901
O & M Costs (Savings)			9	9	9	9	9	9	54
Spending Plan by Fund									
Water Fund		0	0	0	450	450	0	0	900
Total:		0	0	0	450	450	0	0	900

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Tolt Watershed Restoration

BCL/Program Name:	Watershed Stewardship	BCL/Program Code:	C130B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2009
Project ID:	C1310	End Date:	Q4/2020
Location:	Tolt River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This program provides aquatic and riparian restoration, and funds improvements and decommissioning of the road system in the Tolt River Municipal Watershed. This program improves Tolt Watershed management practices to be consistent with the land management practices in the Cedar River Watershed, the City's other primary water supply watershed. Projects are based upon recommendations of the 2011 Tolt Watershed Management Plan.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	288	28	6	5	0	0	0	0	327
Total:	288	28	6	5	0	0	0	0	327
Fund Appropriations/Allocations									
Water Fund	288	28	6	5	0	0	0	0	327
Total*:	288	28	6	5	0	0	0	0	327
O & M Costs (Savings)			3	3	3	3	3	3	20
Spending Plan by Fund									
Water Fund		29	6	5	0	0	0	0	40
Total:		29	6	5	0	0	0	0	40

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Transmission Pipelines Rehabilitation

BCL/Program Name:	Transmission	BCL/Program Code:	C120B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2005
Project ID:	C1207	End Date:	ONGOING
Location:	Regional		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	Not in an Urban Village

This 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 (DOH).

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	2,963	1,040	1,376	3,457	1,404	1,276	1,299	1,322	14,137
Total:	2,963	1,040	1,376	3,457	1,404	1,276	1,299	1,322	14,137
Fund Appropriations/Allocations									
Water Fund	2,963	1,040	1,376	3,457	1,404	1,276	1,299	1,322	14,137
Total*:	2,963	1,040	1,376	3,457	1,404	1,276	1,299	1,322	14,137
O & M Costs (Savings)			141	141	141	141	141	141	848
Spending Plan by Fund									
Water Fund		450	1,376	3,457	1,404	1,276	1,299	1,322	10,584
Total:		450	1,376	3,457	1,404	1,276	1,299	1,322	10,584

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2014 - 2019 Proposed Capital Improvement Program

Transmission Right-of-Way Improvements

BCL/Program Name:	Watershed Stewardship	BCL/Program Code:	C130B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2012
Project ID:	C1316	End Date:	Q4/2014
Location:	Various		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This project provides drainage and vegetation improvements within and adjacent to water transmission rights-of-way and in the Lake Youngs Reserve. These improvements will reduce long-term maintenance costs, contribute to worker safety, and reduce sediment delivery adjacent waterways.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	1	70	20	0	0	0	0	0	91
Total:	1	70	20	0	0	0	0	0	91
Fund Appropriations/Allocations									
Water Fund	1	70	20	0	0	0	0	0	91
Total*:	1	70	20	0	0	0	0	0	91
O & M Costs (Savings)			1	1	1	1	1	1	5

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2014 - 2019 Proposed Capital Improvement Program

Treatment Facility/Water Quality Improvements

BCL/Program Name:	Water Quality & Treatment	BCL/Program Code:	C140B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2007
Project ID:	C1413	End Date:	ONGOING
Location:	Various		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	186	30	100	100	100	100	100	100	816
Total:	186	30	100	100	100	100	100	100	816
Fund Appropriations/Allocations									
Water Fund	186	30	100	100	100	100	100	100	816
Total*:	186	30	100	100	100	100	100	100	816
O & M Costs (Savings)			8	8	8	8	8	8	49
Spending Plan by Fund									
Water Fund		30	100	100	100	100	100	100	630
Total:		30	100	100	100	100	100	100	630

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2014 - 2019 Proposed Capital Improvement Program

Upland Reserve Forest Restoration

BCL/Program Name:	Habitat Conservation Program	BCL/Program Code:	C160B
Project Type:	Rehabilitation or Restoration	Start Date:	Q2/2000
Project ID:	C1603	End Date:	ONGOING
Location:	Cedar River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	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.)

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	6,850	530	283	188	192	132	135	115	8,425
Total:	6,850	530	283	188	192	132	135	115	8,425
Fund Appropriations/Allocations									
Water Fund	6,850	530	283	188	192	132	135	115	8,425
Total*:	6,850	530	283	188	192	132	135	115	8,425
O & M Costs (Savings)			84	84	84	84	84	84	505
Spending Plan by Fund									
Water Fund		520	283	188	192	132	135	115	1,565
Total:		520	283	188	192	132	135	115	1,565

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2014 - 2019 Proposed Capital Improvement Program

Water Infrastructure - Distribution System Modifications

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2013
Project ID:	C1138	End Date:	ONGOING
Location:			
Neighborhood Plan:	Not in Neighborhood Plan	Neighborhood Plan Matrix:	
Neighborhood District:		Urban Village:	

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 Program projects. The benefit of this program 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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	0	200	200	200	200	200	200	200	1,400
Total:	0	200	200	200	200	200	200	200	1,400
Fund Appropriations/Allocations									
Water Fund	0	200	200	200	200	200	200	200	1,400
Total*:	0	200	200	200	200	200	200	200	1,400
O & M Costs (Savings)			14	14	14	14	14	14	84

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2014 - 2019 Proposed Capital Improvement Program

Water Infrastructure - Hydrant Replacement/Relocation

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	Rehabilitation or Restoration	Start Date:	Q4/1998
Project ID:	C1110	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	4,667	364	371	379	386	394	402	410	7,374
Total:	4,667	364	371	379	386	394	402	410	7,374
Fund Appropriations/Allocations									
Water Fund	4,667	364	371	379	386	394	402	410	7,374
Total*:	4,667	364	371	379	386	394	402	410	7,374
O & M Costs (Savings)			74	74	74	74	74	74	442
Spending Plan by Fund									
Water Fund		150	371	379	386	394	402	410	2,493
Total:		150	371	379	386	394	402	410	2,493

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2014 - 2019 Proposed Capital Improvement Program

Water Infrastructure - New Hydrants

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	New Facility	Start Date:	Q2/1999
Project ID:	C1112	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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 helps to reduce the damage as a result of fire by locating new fire hydrants throughout the City's direct service area.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	514	104	106	108	110	113	115	117	1,287
Total:	514	104	106	108	110	113	115	117	1,287
Fund Appropriations/Allocations									
Water Fund	514	104	106	108	110	113	115	117	1,287
Total*:	514	104	106	108	110	113	115	117	1,287
O & M Costs (Savings)			13	13	13	13	13	13	77
Spending Plan by Fund									
Water Fund		50	106	108	110	113	115	117	719
Total:		50	106	108	110	113	115	117	719

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2014 - 2019 Proposed Capital Improvement Program

Water Infrastructure - New Taps

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	New Facility	Start Date:	Q4/1998
Project ID:	C1113	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

This ongoing program installs new drinking water services throughout the City of Seattle. This program 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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	94,646	5,000	4,900	5,000	5,100	5,200	5,300	5,406	130,552
Total:	94,646	5,000	4,900	5,000	5,100	5,200	5,300	5,406	130,552
Fund Appropriations/Allocations									
Water Fund	94,646	5,000	4,900	5,000	5,100	5,200	5,300	5,406	130,552
Total*:	94,646	5,000	4,900	5,000	5,100	5,200	5,300	5,406	130,552
O & M Costs (Savings)			1,306	1,306	1,306	1,306	1,306	1,306	7,833

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2014 - 2019 Proposed Capital Improvement Program

Water Infrastructure - Service Renewal

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	Rehabilitation or Restoration	Start Date:	Q4/1998
Project ID:	C1109	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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 system.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	96,458	5,722	5,837	5,953	6,072	6,194	6,318	6,444	138,998
Total:	96,458	5,722	5,837	5,953	6,072	6,194	6,318	6,444	138,998
Fund Appropriations/Allocations									
Water Fund	96,458	5,722	5,837	5,953	6,072	6,194	6,318	6,444	138,998
Total*:	96,458	5,722	5,837	5,953	6,072	6,194	6,318	6,444	138,998
O & M Costs (Savings)			1,390	1,390	1,390	1,390	1,390	1,390	8,340
Spending Plan by Fund									
Water Fund		5,722	5,837	5,953	6,072	6,194	6,318	6,444	42,540
Total:		5,722	5,837	5,953	6,072	6,194	6,318	6,444	42,540

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2014 - 2019 Proposed Capital Improvement Program

Water Infrastructure - Watermain Extensions

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	New Facility	Start Date:	Q1/1998
Project ID:	C1111	End Date:	ONGOING
Location:	Citywide		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	12,861	800	796	812	828	845	862	1,000	18,803
Total:	12,861	800	796	812	828	845	862	1,000	18,803
Fund Appropriations/Allocations									
Water Fund	12,861	800	796	812	828	845	862	1,000	18,803
Total*:	12,861	800	796	812	828	845	862	1,000	18,803
O & M Costs (Savings)			188	188	188	188	188	188	1,128
Spending Plan by Fund									
Water Fund		500	796	812	828	845	862	1,000	5,643
Total:		500	796	812	828	845	862	1,000	5,643

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2014 - 2019 Proposed Capital Improvement Program

Water Quality Equipment

BCL/Program Name:	Water Quality & Treatment	BCL/Program Code:	C140B
Project Type:	Improved Facility	Start Date:	Q1/2007
Project ID:	C1414	End Date:	Q4/2015
Location:	Various		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This project installs water quality monitoring equipment throughout the drinking water distribution system and enhances SPU's drinking water quality, security, and public health surveillance system. This effort will improve Seattle's ability to detect and respond appropriately to potential drinking water contamination events as recommended by research produced by SPU and the Environmental Protection Agency (EPA) for online monitoring equipment and SPU's broader efforts to increase the security of the water system.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	249	140	143	1	0	0	0	0	533
Total:	249	140	143	1	0	0	0	0	533
Fund Appropriations/Allocations									
Water Fund	249	140	143	1	0	0	0	0	533
Total*:	249	140	143	1	0	0	0	0	533
O & M Costs (Savings)			5	5	5	5	5	5	32

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2014 - 2019 Proposed Capital Improvement Program

Water Supply Flexibility Program

BCL/Program Name:	Water Resources	BCL/Program Code:	C150B
Project Type:	New Investment	Start Date:	Q1/2008
Project ID:	C1507	End Date:	Q4/2016
Location:	Multiple		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	333	669	200	1,480	2,052	0	0	0	4,735
Total:	333	669	200	1,480	2,052	0	0	0	4,735
Fund Appropriations/Allocations									
Water Fund	333	669	200	1,480	2,052	0	0	0	4,735
Total*:	333	669	200	1,480	2,052	0	0	0	4,735
O & M Costs (Savings)			47	47	47	47	47	47	284
Spending Plan by Fund									
Water Fund		469	200	1,480	2,052	0	0	0	4,201
Total:		469	200	1,480	2,052	0	0	0	4,201

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Water System Dewatering

BCL/Program Name:	Transmission	BCL/Program Code:	C120B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2007
Project ID:	C1205	End Date:	ONGOING
Location:	Regional		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	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.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	179	100	102	104	106	108	111	113	922
Total:	179	100	102	104	106	108	111	113	922
Fund Appropriations/Allocations									
Water Fund	179	100	102	104	106	108	111	113	922
Total*:	179	100	102	104	106	108	111	113	922
O & M Costs (Savings)			9	9	9	9	9	9	55

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2014 - 2019 Proposed Capital Improvement Program

Water System Plan - 2019

BCL/Program Name:	Water Resources	BCL/Program Code:	C150B
Project Type:	New Investment	Start Date:	Q1/2016
Project ID:	C1510	End Date:	Q4/2019
Location:	N/A		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This project develops the 2019 Water System Plan. This project meets the State requirement that SPU update a water system plan every six years and submit the plan to the Washington Department of Health (DOH) for approval as a condition of the operating permit for the drinking water system.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	0	0	0	0	110	541	454	59	1,164
Total:	0	0	0	0	110	541	454	59	1,164
Fund Appropriations/Allocations									
Water Fund	0	0	0	0	110	541	454	59	1,164
Total*:	0	0	0	0	110	541	454	59	1,164
O & M Costs (Savings)			12	12	12	12	12	12	70

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2014 - 2019 Proposed Capital Improvement Program

Watermain Rehabilitation

BCL/Program Name:	Distribution	BCL/Program Code:	C110B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2004
Project ID:	C1129	End Date:	ONGOING
Location:	Regional		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	In more than one District	Urban Village:	In more than one Urban Village

This ongoing program replaces or rehabilitates existing watermains in Seattle. Replacements occur when leaks become too frequent. Rehabilitation by lining the interior of the pipe with cement mortar restores the capacity of watermains that have degraded due to interior deposits. The benefits of this program are restored quality of the delivered water, lower use of chlorine to maintain required chlorine residual, and restored pressures.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	5,649	3,866	4,426	3,264	3,313	3,379	5,509	5,750	35,156
Total:	5,649	3,866	4,426	3,264	3,313	3,379	5,509	5,750	35,156
Fund Appropriations/Allocations									
Water Fund	5,649	3,866	4,426	3,264	3,313	3,379	5,509	5,750	35,156
Total*:	5,649	3,866	4,426	3,264	3,313	3,379	5,509	5,750	35,156
O & M Costs (Savings)			352	352	352	352	352	352	2,109
Spending Plan by Fund									
Water Fund		2,033	4,426	3,264	3,313	3,379	5,509	5,750	27,675
Total:		2,033	4,426	3,264	3,313	3,379	5,509	5,750	27,675

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2014 - 2019 Proposed Capital Improvement Program

Watershed Road Improvement/Decommissioning

BCL/Program Name:	Habitat Conservation Program	BCL/Program Code:	C160B
Project Type:	Rehabilitation or Restoration	Start Date:	Q1/2001
Project ID:	C1601	End Date:	ONGOING
Location:	Cedar River Watershed		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Not in a Neighborhood District	Urban Village:	Not in an Urban Village

This 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.)

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	11,170	984	1,004	1,023	1,044	1,066	1,087	1,108	18,486
Total:	11,170	984	1,004	1,023	1,044	1,066	1,087	1,108	18,486
Fund Appropriations/Allocations									
Water Fund	11,170	984	1,004	1,023	1,044	1,066	1,087	1,108	18,486
Total*:	11,170	984	1,004	1,023	1,044	1,066	1,087	1,108	18,486
O & M Costs (Savings)			185	185	185	185	185	185	1,109
Spending Plan by Fund									
Water Fund		975	1,004	1,023	1,044	1,066	1,087	1,108	7,307
Total:		975	1,004	1,023	1,044	1,066	1,087	1,108	7,307

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program

Yesler Terrace-WF

BCL/Program Name:	Shared Cost Projects	BCL/Program Code:	C410B
Project Type:	New Facility	Start Date:	Q1/2014
Project ID:	C4136-WF	End Date:	Q4/2014
Location:	Yesler and Broadway		
Neighborhood Plan:	Not in a Neighborhood Plan	Neighborhood Plan Matrix:	N/A
Neighborhood District:	Central	Urban Village:	Not in an Urban Village

Seattle Housing Authority (SHA) is leading a major project to replace Yesler Terrace's aging public housing buildings with a new mixed-income community. This project provides funding for SPU Water infrastructure investments in association with this project.

	LTD Actuals	2013 Rev	2014	2015	2016	2017	2018	2019	Total
Revenue Sources									
Water Rates	0	0	200	0	0	0	0	0	200
Total:	0	0	200	0	0	0	0	0	200
Fund Appropriations/Allocations									
Water Fund	0	0	200	0	0	0	0	0	200
Total*:	0	0	200	0	0	0	0	0	200
O & M Costs (Savings)			2	2	2	2	2	2	12

**This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts are in thousands of dollars.*

2014 - 2019 Proposed Capital Improvement Program