

# **Seattle Public Utilities**

## **Water**

## **Overview**

SPU delivers an average of approximately 120 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;
- Three groundwater wells;
- 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.

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

Planned spending in the Water Capital Improvement Program (CIP) is \$395 million over the next six years. Major projects include:

- Seismic retrofits to the correct design flaws at four of the newly buried treated water reservoirs ;
- Morse Lake Pump Plant changes to improve water storage access; and
- Water system improvements associated with transportation projects.

The 2015-2020 Proposed CIP also includes many ongoing programs, such as improving the distribution and transmission system water mains, valves, and pump stations, watershed stewardship and conservation projects and programs, and facilities, vehicles, and heavy equipment investments. By 2017, 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. SPU has updated the Water System Plan through 2018, a Washington Department of Health (WDOH) regulatory requirement due every six years.

## Summary of Upcoming Budget Issues and Challenges

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

Water 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 but at a slower rate. 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 physical infrastructure rehabilitation. Past investments include water treatment facilities for the Tolt and Cedar water supplies, coverings for seven open reservoirs in response to federal/state regulations, construction of a second pipeline for the Tolt system, and investments to meet federal requirements embodied in the Cedar River Watershed Habitat Conservation Plan (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.

Against the backdrop of these trends, the 2015-2020 Proposed Water CIP has been developed to:

- Provide for water system modifications associated with various Seattle and regional transportation projects.
- 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.
- Recognize the need to look harder at the water system’s resiliency in a major earthquake event, and begin to make strategic investments to reduce risk.

## Thematic Priorities

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

- SPU is committed to making **asset preservation** investments to create or enhance operational efficiency. SPU uses asset management principles to determine the timing of rehabilitation or replacement of its infrastructure. Projects that fall into this category vary, ranging from water main replacement related to transportation projects to 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 has been 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 that have design flaws. 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 the planning and design of new covers on the Lake Forest Park and Bitter Lake reservoirs to replace the existing floating covers that will be nearing 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 and Mercer Corridor projects.
- **Infrastructure:** How a project addresses infrastructure conditions or vulnerabilities. Examples of highly ranked projects in this category include the Waterman 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 defer some capital projects and retire or downsize some facilities, primarily finished water reservoirs. 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;
- 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): Delayed beyond 2020; and
- Cedar Falls Facilities Development to improve buildings and office space at Cedar Falls Headquarters: Deferral of Phase 2 to beyond 2020.

### **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 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, Tolt Pipeline 2, 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.

The 6-year CIP includes one 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. Additionally, by 2019, SPU will begin the planning and design of 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.

As noted above, SPU recognizes the need to look harder at the water system’s resiliency in a major earthquake event, and begin to make strategic investments to reduce risk. SPU will be developing a plan that will define recovery time to agreed levels of service and develop a prioritized list of recommended investments to improve resiliency.

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 3<sup>rd</sup> Ave West PRVs project, which installed new pressure reducing valves (PRVs) in the Ballard neighborhood, and the WM Ship Canal Crossing at 3<sup>rd</sup> Ave West project, which rehabilitates a failing water main (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 70% of the Water Fund’s Operating 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 7% consists of non-rate revenue, which includes such things as tap fees received. SPU issues bonds, serviced by ratepayers, which in the current period covers 49% of the CIP, with the remainder funded by cash and loan, 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 water mains. 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                  | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | Total          |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| DISTRIBUTION                | 20,713        | 18,000        | 21,974        | 25,041        | 23,166        | 23,846        | <b>132,739</b> |
| TRANSMISSION                | 2,498         | 3,247         | 2,055         | 2,826         | 2,130         | 2,914         | <b>15,669</b>  |
| WATERSHED STEWARDSHIP       | 301           | 551           | 551           | 250           | 250           | 100           | <b>2,003</b>   |
| WATER QUALITY AND TREATMENT | 11,417        | 7,577         | 234           | 250           | 1,430         | 3,470         | <b>24,379</b>  |
| WATER RESOURCES             | 13,965        | 23,780        | 9,480         | 3,807         | 3,463         | 2,856         | <b>57,351</b>  |
| HABITAT CONSERVATION        | 2,604         | 2,821         | 2,776         | 4,766         | 1,779         | 2,209         | <b>16,954</b>  |
| SHARED COST                 | 21,971        | 21,214        | 19,806        | 16,390        | 12,897        | 8,765         | 101,043        |
| TECHNOLOGY                  | 11,044        | 8,641         | 7,178         | 7,185         | 5,090         | 5,423         | <b>44,562</b>  |
| <b>Total</b>                | <b>84,513</b> | <b>85,831</b> | <b>64,054</b> | <b>60,515</b> | <b>50,204</b> | <b>49,582</b> | <b>394,699</b> |

**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.

Reductions in the **Distribution BCL** in 2015 compared to amounts adopted in the 2014-2019 CIP, are due primarily to fewer projects identified for Pump Station Improvements, Tank Improvements and Distribution System Improvements (e.g., fire flow improvements). Reductions in 2016 are due primarily to reductions in those same programs, plus reductions in Watermain Rehabilitation. These reductions are proposed to provide capacity to make water system changes associated with transportation projects. In addition, for both years, anticipated increase in demand for New Taps is offset by a decrease in Service Renewals performed by the same work crews.

**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 2015 and increases in 2016 compared to amounts adopted in the 2014-2019 CIP are due primarily to delaying work on Tolt Pipeline Improvements while engineering studies are being completed. Additional shifts in cash flows are anticipated for Cathodic Protection as the



program moves to bundling projects for design and construction in every other year for more efficient project delivery.

**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.

Increases in 2015 and 2016 in the **Watershed Stewardship BCL** are proposed for remediation of identified soil contamination at various locations in the Cedar River Municipal Watershed. Another contribution to the increase in 2015 is for construction of vault toilet facilities at the Rattlesnake Lake Recreation Area, which is less costly than renting portable toilets.

**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.

Increases in 2015 and 2016 in the **Water Quality & Treatment BCL** result from higher cost projections based on recently completed engineering studies for correcting seismic design flaws at four of the newly buried reservoirs.

**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.

Increases in the **Water Resources BCL** in 2015 and 2016 are a result of two factors. First, the Landsburg Flood Passage Project under the Dam Safety Program has been postponed to sometime after 2020 because of its lower priority. Second, the cash flow for the Morse Lake Pump Plant has been adjusted to reflect the current design and construction schedule, with no change to the total project cost.

**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.

Increases in 2015 and 2016 in the **Habitat Conservation Program BCL** are attributable to earlier than anticipated work at Ballard Locks to help protect downstream migrating fish and for a new project to replace the existing broodstock collection weir on the Cedar River with one that performs better under high river flows to meet the requirements for the Cedar Sockeye Hatchery.

**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 2015, the Shared Cost program includes funding for a number of interdepartmental projects including continuation of projects initiated under the Bridging the Gap program, Alaskan Way Viaduct and Seawall Replacement, 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 2015 and 2016. The primary driver for the increase is due to newly identified water main replacement projects associated with projects initiated under the Bridging the Gap program (e.g., SDOT's 23<sup>rd</sup> Ave Corridor Improvements Project).

**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 2015 and 2016 address SPU’s key initiatives, which focus on:

- Improving Internal Controls,
- Improving Productivity and Performance
- Improving Customer Service
- Transitioning from Data Rich to Knowledge Rich
- Improving Project Delivery

SPU will focus technology spending on the highest priority business needs. Increased spending in 2015 reflects major business changes in Project Delivery & Performance driving the need for several new technology systems as well as improved integration of the various systems in place. The decrease in 2016 is mainly due to the completion of the Utility Customer Billing System/CCSS project.

## Project Summary

| BCL/Program Name/<br>Project Title & ID                                | LTD<br>Actuals | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020   | Total        |
|--|----------------|--------|--------|--------|--------|--------|--------|--------|--------------|
| <b>Distribution</b>  |                |        |        |        |        |        |        |        | <b>C110B</b> |
| Chamber Upgrades -<br>Distribution (C1137)                             | 103            | 27     | 27     | 28     | 28     | 29     | 29     | 30     | 300          |
| Distribution System<br>Improvements (C1128)                            | 4,150          | 3,530  | 3,370  | 2,473  | 2,533  | 3,500  | 4,000  | 4,500  | 28,056       |
| Distribution System In-Line<br>Gate Valves (C1136)                     | 728            | 318    | 325    | 331    | 338    | 345    | 351    | 359    | 3,095        |
| Multiple Utility Relocation<br>(C1133)                                 | 5,359          | 2,629  | 1,317  | 271    | 563    | 574    | 586    | 597    | 11,897       |
| Pump Station Improvements<br>(C1135)                                   | 251            | 250    | 125    | 700    | 2,225  | 125    | 125    | 125    | 3,926        |
| Tank Improvements (C1134)  | 4,165          | 116    | 250    | 750    | 500    | 100    | 550    | 850    | 7,281        |
| Water Infrastructure -<br>Distribution System<br>Modifications (C1138) | 41             | 200    | 100    | 102    | 104    | 106    | 108    | 110    | 871          |
| Water Infrastructure - Hydrant<br>Replacement/Relocation<br>(C1110)    | 4,780          | 371    | 204    | 208    | 212    | 216    | 221    | 225    | 6,438        |
| Water Infrastructure - New<br>Hydrants (C1112)                         | 521            | 106    | 61     | 25     | 13     | 13     | 13     | 14     | 765          |
| Water Infrastructure - New<br>Taps (C1113)                             | 101,231        | 4,900  | 6,000  | 6,120  | 6,242  | 6,367  | 6,495  | 6,624  | 143,980      |
| Water Infrastructure - Service<br>Renewal (C1109)                      | 100,763        | 5,837  | 4,986  | 5,086  | 5,188  | 5,291  | 5,397  | 5,505  | 138,053      |
| Water Infrastructure -<br>Watermain Extensions<br>(C1111)              | 13,392         | 796    | 812    | 828    | 845    | 862    | 879    | 897    | 19,310       |
| Watermain Rehabilitation<br>(C1129)                                    | 6,980          | 4,426  | 3,137  | 1,078  | 3,182  | 7,513  | 4,411  | 4,010  | 34,737       |
| <b>Distribution</b>  | 242,464        | 23,507 | 20,713 | 18,000 | 21,974 | 25,041 | 23,166 | 23,846 | 398,711      |
| <b>Transmission</b>  |                |        |        |        |        |        |        |        | <b>C120B</b> |
| Cathodic Protection Program<br>(C1208)                                 | 735            | 1,219  | 1,023  | 1,040  | 320    | 1,060  | 330    | 1,080  | 6,807        |
| Purveyor Meters Replace -<br>SPU (C1206)                               | 1,084          | 102    | 200    | 204    | 208    | 213    | 218    | 223    | 2,452        |
| Replace Air Valve Chambers<br>(C1209)                                  | 1,648          | 117    | 122    | 125    | 125    | 127    | 130    | 133    | 2,526        |
| Transmission Pipelines<br>Rehabilitation (C1207)                       | 3,936          | 1,376  | 1,102  | 1,854  | 1,377  | 1,399  | 1,422  | 1,445  | 13,912       |
| Water System Dewatering<br>(C1205)                                     | 199            | 102    | 50     | 24     | 25     | 27     | 30     | 33     | 490          |
| <b>Transmission</b>  | 7,602          | 2,916  | 2,498  | 3,247  | 2,055  | 2,826  | 2,130  | 2,914  | 26,187       |

\*Amounts in thousands of dollars

### 2015 - 2020 Proposed Capital Improvement Program

## Project Summary

| BCL/Program Name/<br>Project Title & ID                | LTD<br>Actuals | 2014          | 2015          | 2016         | 2017       | 2018       | 2019         | 2020         | Total          |
|--|----------------|---------------|---------------|--------------|------------|------------|--------------|--------------|----------------|
| <b>Watershed Stewardship</b>                           |                |               |               |              |            |            |              |              | <b>C130B</b>   |
| Cedar Bridges (C1307)                                  | 1,618          | 1             | 1             | 1            | 1          | 250        | 250          | 100          | 2,222          |
| Environmental Stewardship (C1301)                      | 3              | 0             | 210           | 100          | 100        | 0          | 0            | 0            | 413            |
| Kerriston Road (C1314)                                 | 752            | 17            | 0             | 0            | 0          | 0          | 0            | 0            | 769            |
| Tolt Bridges (C1308)                                   | 0              | 0             | 0             | 450          | 450        | 0          | 0            | 0            | 900            |
| Tolt Watershed Restoration (C1310)                     | 312            | 6             | 5             | 0            | 0          | 0          | 0            | 0            | 323            |
| Transmission Right-of-Way Improvements (C1316)         | 117            | 20            | 85            | 0            | 0          | 0          | 0            | 0            | 222            |
| <b>Watershed Stewardship</b>                           | <b>2,802</b>   | <b>44</b>     | <b>301</b>    | <b>551</b>   | <b>551</b> | <b>250</b> | <b>250</b>   | <b>100</b>   | <b>4,849</b>   |
| <b>Water Quality &amp; Treatment</b>                   |                |               |               |              |            |            |              |              | <b>C140B</b>   |
| Landsburg Chlorination Upgrades (C1417)                | 0              | 1,016         | 0             | 0            | 0          | 0          | 0            | 0            | 1,016          |
| Reservoir Covering-Bitter Lake (C1419)                 | 0              | 0             | 0             | 0            | 0          | 0          | 590          | 1,790        | 2,380          |
| Reservoir Covering - Beacon (C1408)                    | 42,405         | 925           | 103           | 5,063        | 0          | 0          | 0            | 0            | 48,496         |
| Reservoir Covering - Maple Leaf (C1411)                | 38,629         | 5,187         | 7,036         | 1,008        | 0          | 0          | 0            | 0            | 51,860         |
| Reservoir Covering - Myrtle (C1410)                    | 12,369         | 315           | 1,256         | 1,146        | 0          | 0          | 0            | 0            | 15,086         |
| Reservoir Covering - West Seattle (C1409)              | 35,296         | 4,020         | 2,717         | 10           | 0          | 0          | 0            | 0            | 42,043         |
| Reservoir Covering-Lake Forest Park (C1418)            | 0              | 0             | 0             | 0            | 0          | 0          | 590          | 1,200        | 1,790          |
| Treatment Facility/Water Quality Improvements (C1413)  | 208            | 100           | 205           | 250          | 234        | 250        | 250          | 480          | 1,978          |
| Water Quality Equipment (C1414)                        | 249            | 143           | 101           | 100          | 0          | 0          | 0            | 0            | 593            |
| <b>Water Quality &amp; Treatment</b>                   | <b>129,156</b> | <b>11,706</b> | <b>11,417</b> | <b>7,577</b> | <b>234</b> | <b>250</b> | <b>1,430</b> | <b>3,470</b> | <b>165,241</b> |
| <b>Water Resources</b>                                 |                |               |               |              |            |            |              |              | <b>C150B</b>   |
| Dam Safety Program (C1506)                             | 6,721          | 459           | 1,025         | 932          | 940        | 800        | 800          | 200          | 11,876         |
| Morse Lake Pump Plant (C1508)                          | 14,948         | 2,862         | 9,054         | 18,232       | 5,496      | 0          | 0            | 0            | 50,593         |
| Regional Water Conservation Program (C1504)            | 19,298         | 1,803         | 1,839         | 1,876        | 1,914      | 1,952      | 1,991        | 2,031        | 32,704         |
| Seattle Direct Service Additional Conservation (C1505) | 6,402          | 690           | 566           | 577          | 589        | 601        | 613          | 625          | 10,662         |

\*Amounts in thousands of dollars

**2015 - 2020 Proposed Capital Improvement Program**

## Project Summary

| BCL/Program Name/<br>Project Title & ID                           | LTD<br>Actuals | 2014  | 2015   | 2016   | 2017  | 2018  | 2019  | 2020  | Total                          |
|---|----------------|-------|--------|--------|-------|-------|-------|-------|--------------------------------|
| Water Supply Flexibility Program (C1507)                          | 333            | 869   | 1,480  | 2,053  | 0     | 0     | 0     | 0     | 4,735                          |
| Water System Plan - 2019 (C1510)                                  | 0              | 0     | 0      | 110    | 541   | 454   | 59    | 0     | 1,164                          |
| <b>Water Resources</b>  | 47,702         | 6,683 | 13,965 | 23,780 | 9,480 | 3,807 | 3,463 | 2,856 | 111,735                        |
| <b>Habitat Conservation Program</b>                               |                |       |        |        |       |       |       |       | <b>BCL/Program Code: C160B</b> |
| Ballard Locks Improvements (C1606)                                | 9              | 0     | 200    | 200    | 200   | 200   | 0     | 536   | 1,345                          |
| Cedar Sockeye Hatchery (C1605)                                    | 21,492         | 205   | 70     | 250    | 444   | 2,700 | 130   | 0     | 25,291                         |
| Downstream Fish Habitat (C1607)                                   | 4,991          | 520   | 734    | 795    | 532   | 241   | 0     | 0     | 7,813                          |
| Instream Flow Management Studies (C1608)                          | 4,917          | 204   | 208    | 212    | 216   | 221   | 225   | 230   | 6,433                          |
| Stream & Riparian Restoration (C1602)                             | 7,454          | 394   | 204    | 164    | 165   | 167   | 168   | 169   | 8,884                          |
| Upland Reserve Forest Restoration (C1603)                         | 7,269          | 283   | 98     | 93     | 95    | 97    | 98    | 100   | 8,133                          |
| Watershed Road Improvement/Decommissioning (C1601)                | 11,922         | 1,004 | 1,090  | 1,106  | 1,124 | 1,140 | 1,157 | 1,175 | 19,718                         |
| <b>Habitat Conservation Program</b>                               | 58,053         | 2,610 | 2,604  | 2,821  | 2,776 | 4,766 | 1,779 | 2,209 | 77,616                         |
| <b>Shared Cost Projects</b>                                       |                |       |        |        |       |       |       |       | <b>BCL/Program Code: C410B</b> |
| 1% for Art – WF (C4118-WF)  | 1,225          | 249   | 171    | 93     | 77    | 81    | 117   | 122   | 2,135                          |
| Alaskan Way Viaduct & Seawall Replacement Program - WF (C4102-WF) | 6,598          | 4,682 | 5,918  | 3,478  | 227   | 727   | 238   | 0     | 21,869                         |
| Bridging the Gap - WF (C4119-WF)                                  | 6,113          | 2,604 | 4,802  | 5,223  | 604   | 500   | 500   | 500   | 20,845                         |
| Emergency Storms - WF (C4120-WF)                                  | 95             | 128   | 100    | 100    | 100   | 100   | 100   | 100   | 823                            |
| First Hill Streetcar - WF (C4130-WF)                              | 0              | 150   | 1,150  | 2,500  | 3,400 | 1,000 | 0     | 0     | 8,200                          |
| Heavy Equipment Purchases - WF (C4116-WF)                         | 8,427          | 3,803 | 3,006  | 2,000  | 2,000 | 2,000 | 2,000 | 2,000 | 25,236                         |
| Integrated Control Monitoring Program - WF (C4108-WF)             | 7,385          | 405   | 480    | 480    | 480   | 480   | 480   | 480   | 10,670                         |
| Mercer Corridor Project East Phase - WF (C4114-WF)                | 3,428          | 30    | 0      | 0      | 0     | 0     | 0     | 0     | 3,458                          |
| Mercer Corridor Project West Phase - WF (C4133-WF)                | 162            | 455   | 343    | 0      | 0     | 0     | 0     | 0     | 959                            |
| Meter Replacement - WF (C4101-WF)                                 | 4,966          | 634   | 623    | 633    | 643   | 659   | 664   | 674   | 9,497                          |

\*Amounts in thousands of dollars

**2015 - 2020 Proposed Capital Improvement Program**

**Project Summary**

| <b>BCL/Program Name/</b>                            |                    |               |               |               |               |                          |               |               |                  |
|---|--------------------|---------------|---------------|---------------|---------------|--------------------------|---------------|---------------|------------------|
| <b>Project Title &amp; ID</b>                       | <b>LTD Actuals</b> | <b>2014</b>   | <b>2015</b>   | <b>2016</b>   | <b>2017</b>   | <b>2018</b>              | <b>2019</b>   | <b>2020</b>   | <b>Total</b>     |
| Operational Facility - Construction - WF (C4106-WF) | 15,195             | 1,492         | 753           | 985           | 2,620         | 2,860                    | 4,270         | 1,680         | 29,855           |
| Operational Facility - Other - WF (C4115-WF)        | 973                | 256           | 400           | 350           | 0             | 0                        | 0             | 0             | 1,979            |
| Operations Control Center - WF (C4105-WF)           | 4,641              | 1,630         | 583           | 122           | 431           | 623                      | 783           | 415           | 9,227            |
| Other Major Transportation Projects - WF (C4123-WF) | 36                 | 265           | 0             | 50            | 50            | 300                      | 500           | 500           | 1,701            |
| Regional Facility - WF (C4107-WF)                   | 5,437              | 6,515         | 5,109         | 5,750         | 8,124         | 6,035                    | 1,870         | 1,319         | 40,159           |
| Security Improvements - WF (C4113-WF)               | 6,228              | 1,713         | 1,078         | 1,050         | 950           | 950                      | 1,300         | 950           | 14,219           |
| Sound Transit - North Link - WF (C4135-WF)          | 58                 | 311           | 516           | 100           | 100           | 75                       | 75            | 25            | 1,260            |
| Sound Transit - Water Betterment (C4125)            | 1,502              | 50            | 50            | 0             | 0             | 0                        | 0             | 0             | 1,602            |
| Sound Transit – University Link - WF (C4110-WF)     | 329                | 137           | 30            | 10            | 0             | 0                        | 0             | 0             | 506              |
| Sound Transit-East Link (C4122-WF)                  | 0                  | 40            | 53            | 10            | 0             | 0                        | 0             | 0             | 103              |
| Yesler Terrace-WF (C4136-WF)                        | 0                  | 200           | 0             | 0             | 0             | 0                        | 0             | 0             | 200              |
| <b>Shared Cost Projects</b>                         | <b>72,799</b>      | <b>25,748</b> | <b>25,164</b> | <b>22,934</b> | <b>19,806</b> | <b>16,390</b>            | <b>12,897</b> | <b>8,765</b>  | <b>204,502</b>   |
| <b>Technology</b>                                   |                    |               |               |               |               | <b>BCL/Program Code:</b> |               |               | <b>C510B</b>     |
| Asset Information Management (C5407)                | 3,725              | 1,510         | 1,048         | 1,048         | 1,093         | 1,120                    | 910           | 1,042         | 11,495           |
| Customer Contact & Billing (C5402)                  | 663                | 4,414         | 4,384         | 1,997         | 1,648         | 1,689                    | 550           | 1,100         | 16,446           |
| Enterprise Information Management (C5403)           | 66                 | 940           | 1,043         | 1,123         | 484           | 598                      | 1,150         | 554           | 5,957            |
| IT Infrastructure (C5404)                           | 1,630              | 1,769         | 990           | 1,364         | 858           | 1,628                    | 968           | 1,342         | 10,549           |
| Project Delivery & Performance (C5405)              | 2,444              | 1,701         | 2,698         | 2,229         | 2,095         | 1,229                    | 1,012         | 885           | 14,294           |
| Science & System Performance (C5406)                | 75                 | 272           | 880           | 880           | 1,000         | 921                      | 500           | 500           | 5,029            |
| <b>Technology</b>                                   | <b>8,603</b>       | <b>10,607</b> | <b>11,044</b> | <b>8,641</b>  | <b>7,178</b>  | <b>7,185</b>             | <b>5,090</b>  | <b>5,423</b>  | <b>63,771</b>    |
| <b>Department Total*:</b>                           | <b>569,180</b>     | <b>83,821</b> | <b>87,706</b> | <b>87,551</b> | <b>64,054</b> | <b>60,515</b>            | <b>50,204</b> | <b>49,582</b> | <b>1,052,613</b> |

\*Amounts in thousands of dollars

**Fund Summary**

| <b>Fund Name &amp; Code</b> | <b>LTD<br/>Actuals</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>Total</b> |
|-----------------------------|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Water Fund (43000)          | 569,180                | 83,821      | 87,706      | 87,551      | 64,054      | 60,515      | 50,204      | 49,582      | 1,052,613    |
| <b>Department Total*:</b>   | 569,180                | 83,821      | 87,706      | 87,551      | 64,054      | 60,515      | 50,204      | 49,582      | 1,052,613    |

*\*Amounts in thousands of dollars*



**1% for Art – WF**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects           | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | Improved Facility              | <b>Start Date:</b>               | Q1/2001                 |
| <b>Project ID:</b>            | C4118-WF                       | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | N/A                            |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 1,225          | 249         | 171  | 93   | 77   | 81   | 117  | 122  | 2,135 |
| <b>Total:</b>                          | 1,225          | 249         | 171  | 93   | 77   | 81   | 117  | 122  | 2,135 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 1,225          | 249         | 171  | 93   | 77   | 81   | 117  | 122  | 2,135 |
| <b>Total*:</b>                         | 1,225          | 249         | 171  | 93   | 77   | 81   | 117  | 122  | 2,135 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 21   | 21   | 21   | 21   | 21   | 21   | 128   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 183         | 171  | 93   | 77   | 81   | 117  | 122  | 844   |
| <b>Total:</b>                          |                | 183         | 171  | 93   | 77   | 81   | 117  | 122  | 844   |

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

**Alaskan Way Viaduct & Seawall Replacement Program - WF**

|                               |                           |                                  |                                |
|-------------------------------|---------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects      | <b>BCL/Program Code:</b>         | C410B                          |
| <b>Project Type:</b>          | New Facility              | <b>Start Date:</b>               | Q1/2004                        |
| <b>Project ID:</b>            | C4102-WF                  | <b>End Date:</b>                 | Q4/2019                        |
| <b>Location:</b>              | SR 99 / Battery St        |                                  |                                |
| <b>Neighborhood Plan:</b>     | In more than one Plan     | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017 | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|-------|-------|------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |      |      |      |      |        |
| Water Rates                            | 6,598          | 4,682       | 5,918 | 3,478 | 227  | 727  | 238  | 0    | 21,869 |
| <b>Total:</b>                          | 6,598          | 4,682       | 5,918 | 3,478 | 227  | 727  | 238  | 0    | 21,869 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |      |      |      |      |        |
| Water Fund                             | 6,598          | 4,682       | 5,918 | 3,478 | 227  | 727  | 238  | 0    | 21,869 |
| <b>Total*:</b>                         | 6,598          | 4,682       | 5,918 | 3,478 | 227  | 727  | 238  | 0    | 21,869 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 219   | 219   | 219  | 219  | 219  | 219  | 1,312  |
| <b>Spending Plan by Fund</b>           |                |             |       |       |      |      |      |      |        |
| Water Fund                             |                | 5,536       | 5,918 | 3,478 | 227  | 727  | 238  | 0    | 16,124 |
| <b>Total:</b>                          |                | 5,536       | 5,918 | 3,478 | 227  | 727  | 238  | 0    | 16,124 |

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

**Ballard Locks Improvements**

|                               |                              |                                  |                  |
|-------------------------------|------------------------------|----------------------------------|------------------|
| <b>BCL/Program Name:</b>      | Habitat Conservation Program | <b>BCL/Program Code:</b>         | C160B            |
| <b>Project Type:</b>          | Improved Facility            | <b>Start Date:</b>               | Q1/2000          |
| <b>Project ID:</b>            | C1606                        | <b>End Date:</b>                 | Q4/2020          |
| <b>Location:</b>              | NW 54th St /30th Ave NW      |                                  |                  |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan   | <b>Neighborhood Plan Matrix:</b> | 6                |
| <b>Neighborhood District:</b> | Ballard                      | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 9              | 0           | 200  | 200  | 200  | 200  | 0    | 536  | 1,345 |
| <b>Total:</b>                          | 9              | 0           | 200  | 200  | 200  | 200  | 0    | 536  | 1,345 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 9              | 0           | 200  | 200  | 200  | 200  | 0    | 536  | 1,345 |
| <b>Total*:</b>                         | 9              | 0           | 200  | 200  | 200  | 200  | 0    | 536  | 1,345 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 13   | 13   | 13   | 13   | 13   | 13   | 81    |

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

**Bridging the Gap - WF**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects           | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | Improved Facility              | <b>Start Date:</b>               | Q1/2008                 |
| <b>Project ID:</b>            | C4119-WF                       | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Various                        |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017 | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|-------|-------|------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |      |      |      |      |        |
| Water Rates                            | 6,113          | 2,604       | 4,802 | 5,223 | 604  | 500  | 500  | 500  | 20,845 |
| <b>Total:</b>                          | 6,113          | 2,604       | 4,802 | 5,223 | 604  | 500  | 500  | 500  | 20,845 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |      |      |      |      |        |
| Water Fund                             | 6,113          | 2,604       | 4,802 | 5,223 | 604  | 500  | 500  | 500  | 20,845 |
| <b>Total*:</b>                         | 6,113          | 2,604       | 4,802 | 5,223 | 604  | 500  | 500  | 500  | 20,845 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 208   | 208   | 208  | 208  | 208  | 208  | 1,251  |
| <b>Spending Plan by Fund</b>           |                |             |       |       |      |      |      |      |        |
| Water Fund                             |                | 952         | 4,802 | 5,223 | 604  | 500  | 500  | 500  | 13,081 |
| <b>Total:</b>                          |                | 952         | 4,802 | 5,223 | 604  | 500  | 500  | 500  | 13,081 |

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

**2015 - 2020 Proposed Capital Improvement Program**

**Cathodic Protection Program**

|                               |                               |                                  |                         |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Transmission                  | <b>BCL/Program Code:</b>         | C120B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q1/2004                 |
| <b>Project ID:</b>            | C1208                         | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Citywide                      |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017 | 2018  | 2019 | 2020  | Total |
|--|----------------|-------------|-------|-------|------|-------|------|-------|-------|
| <b>Revenue Sources</b>                 |                |             |       |       |      |       |      |       |       |
| Water Rates                            | 735            | 1,219       | 1,023 | 1,040 | 320  | 1,060 | 330  | 1,080 | 6,807 |
| <b>Total:</b>                          | 735            | 1,219       | 1,023 | 1,040 | 320  | 1,060 | 330  | 1,080 | 6,807 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |      |       |      |       |       |
| Water Fund                             | 735            | 1,219       | 1,023 | 1,040 | 320  | 1,060 | 330  | 1,080 | 6,807 |
| <b>Total*:</b>                         | 735            | 1,219       | 1,023 | 1,040 | 320  | 1,060 | 330  | 1,080 | 6,807 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 68    | 68    | 68   | 68    | 68   | 68    | 408   |
| <b>Spending Plan by Fund</b>           |                |             |       |       |      |       |      |       |       |
| Water Fund                             |                | 516         | 1,023 | 1,040 | 320  | 1,060 | 330  | 1,080 | 5,369 |
| <b>Total:</b>                          |                | 516         | 1,023 | 1,040 | 320  | 1,060 | 330  | 1,080 | 5,369 |

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

**Cedar Bridges**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Watershed Stewardship          | <b>BCL/Program Code:</b>         | C130B                   |
| <b>Project Type:</b>          | Improved Facility              | <b>Start Date:</b>               | Q1/2007                 |
| <b>Project ID:</b>            | C1307                          | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Cedar River Watershed          |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 1,618          | 1           | 1    | 1    | 1    | 250  | 250  | 100  | 2,222 |
| <b>Total:</b>                          | 1,618          | 1           | 1    | 1    | 1    | 250  | 250  | 100  | 2,222 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 1,618          | 1           | 1    | 1    | 1    | 250  | 250  | 100  | 2,222 |
| <b>Total*:</b>                         | 1,618          | 1           | 1    | 1    | 1    | 250  | 250  | 100  | 2,222 |
| O & M Costs (Savings)                  |                |             | 22   | 22   | 22   | 22   | 22   | 22   | 133   |

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

**Cedar Sockeye Hatchery**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Habitat Conservation Program   | <b>BCL/Program Code:</b>         | C160B                   |
| <b>Project Type:</b>          | New Facility                   | <b>Start Date:</b>               | Q1/2000                 |
| <b>Project ID:</b>            | C1605                          | <b>End Date:</b>                 | Q2/2016                 |
| <b>Location:</b>              | Cedar River Watershed          |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018  | 2019 | 2020 | Total  |
|--|----------------|-------------|------|------|------|-------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |       |      |      |        |
| Water Rates                            | 21,492         | 205         | 70   | 250  | 444  | 2,700 | 130  | 0    | 25,291 |
| <b>Total:</b>                          | 21,492         | 205         | 70   | 250  | 444  | 2,700 | 130  | 0    | 25,291 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |       |      |      |        |
| Water Fund                             | 21,492         | 205         | 70   | 250  | 444  | 2,700 | 130  | 0    | 25,291 |
| <b>Total*:</b>                         | 21,492         | 205         | 70   | 250  | 444  | 2,700 | 130  | 0    | 25,291 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 253  | 253  | 253  | 253   | 253  | 253  | 1,517  |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |       |      |      |        |
| Water Fund                             |                | 45          | 70   | 250  | 444  | 2,700 | 130  | 0    | 3,639  |
| <b>Total:</b>                          |                | 45          | 70   | 250  | 444  | 2,700 | 130  | 0    | 3,639  |

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

**Chamber Upgrades - Distribution**

|                               |                                |                                  |                                |
|-------------------------------|--------------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution                   | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q1/2003                        |
| <b>Project ID:</b>            | C1137                          | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                       |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 103            | 27          | 27   | 28   | 28   | 29   | 29   | 30   | 300   |
| <b>Total:</b>                          | 103            | 27          | 27   | 28   | 28   | 29   | 29   | 30   | 300   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 103            | 27          | 27   | 28   | 28   | 29   | 29   | 30   | 300   |
| <b>Total*:</b>                         | 103            | 27          | 27   | 28   | 28   | 29   | 29   | 30   | 300   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 3    | 3    | 3    | 3    | 3    | 3    | 18    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 59          | 27   | 28   | 28   | 29   | 29   | 30   | 229   |
| <b>Total:</b>                          |                | 59          | 27   | 28   | 28   | 29   | 29   | 30   | 229   |

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



**Dam Safety Program**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Resources                | <b>BCL/Program Code:</b>         | C150B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q1/2008                 |
| <b>Project ID:</b>            | C1506                          | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | N/A                            |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016 | 2017 | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|-------|------|------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |       |      |      |      |      |      |        |
| Water Rates                            | 6,721          | 459         | 1,025 | 932  | 940  | 800  | 800  | 200  | 11,876 |
| <b>Total:</b>                          | 6,721          | 459         | 1,025 | 932  | 940  | 800  | 800  | 200  | 11,876 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |      |      |      |      |      |        |
| Water Fund                             | 6,721          | 459         | 1,025 | 932  | 940  | 800  | 800  | 200  | 11,876 |
| <b>Total*:</b>                         | 6,721          | 459         | 1,025 | 932  | 940  | 800  | 800  | 200  | 11,876 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 119   | 119  | 119  | 119  | 119  | 119  | 713    |
| <b>Spending Plan by Fund</b>           |                |             |       |      |      |      |      |      |        |
| Water Fund                             |                | 50          | 1,025 | 932  | 940  | 800  | 800  | 200  | 4,747  |
| <b>Total:</b>                          |                | 50          | 1,025 | 932  | 940  | 800  | 800  | 200  | 4,747  |

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

**Distribution System Improvements**

|                               |                            |                                  |                                |
|-------------------------------|----------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution               | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q1/2003                        |
| <b>Project ID:</b>            | C1128                      | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                   |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | Total  |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |       |       |       |       |        |
| Water Rates                            | 4,150          | 3,530       | 3,370 | 2,473 | 2,533 | 3,500 | 4,000 | 4,500 | 28,056 |
| <b>Total:</b>                          | 4,150          | 3,530       | 3,370 | 2,473 | 2,533 | 3,500 | 4,000 | 4,500 | 28,056 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |       |       |       |       |        |
| Water Fund                             | 4,150          | 3,530       | 3,370 | 2,473 | 2,533 | 3,500 | 4,000 | 4,500 | 28,056 |
| <b>Total*:</b>                         | 4,150          | 3,530       | 3,370 | 2,473 | 2,533 | 3,500 | 4,000 | 4,500 | 28,056 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 281   | 281   | 281   | 281   | 281   | 281   | 1,683  |
| <b>Spending Plan by Fund</b>           |                |             |       |       |       |       |       |       |        |
| Water Fund                             |                | 1,276       | 3,370 | 2,473 | 2,533 | 3,500 | 4,000 | 4,500 | 21,651 |
| <b>Total:</b>                          |                | 1,276       | 3,370 | 2,473 | 2,533 | 3,500 | 4,000 | 4,500 | 21,651 |

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

**Distribution System In-Line Gate Valves**

|                               |                               |                                  |                                |
|-------------------------------|-------------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution                  | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q1/1999                        |
| <b>Project ID:</b>            | C1136                         | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                      |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 728            | 318         | 325  | 331  | 338  | 345  | 351  | 359  | 3,095 |
| <b>Total:</b>                          | 728            | 318         | 325  | 331  | 338  | 345  | 351  | 359  | 3,095 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 728            | 318         | 325  | 331  | 338  | 345  | 351  | 359  | 3,095 |
| <b>Total*:</b>                         | 728            | 318         | 325  | 331  | 338  | 345  | 351  | 359  | 3,095 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 31   | 31   | 31   | 31   | 31   | 31   | 186   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 318         | 325  | 331  | 338  | 345  | 351  | 359  | 2,366 |
| <b>Total:</b>                          |                | 318         | 325  | 331  | 338  | 345  | 351  | 359  | 2,366 |

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

**Downstream Fish Habitat**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Habitat Conservation Program   | <b>BCL/Program Code:</b>         | C160B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q1/2001                 |
| <b>Project ID:</b>            | C1607                          | <b>End Date:</b>                 | Q4/2017                 |
| <b>Location:</b>              | Cedar River Watershed          |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 4,991          | 520         | 734  | 795  | 532  | 241  | 0    | 0    | 7,813 |
| <b>Total:</b>                          | 4,991          | 520         | 734  | 795  | 532  | 241  | 0    | 0    | 7,813 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 4,991          | 520         | 734  | 795  | 532  | 241  | 0    | 0    | 7,813 |
| <b>Total*:</b>                         | 4,991          | 520         | 734  | 795  | 532  | 241  | 0    | 0    | 7,813 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 78   | 78   | 78   | 78   | 78   | 78   | 469   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 220         | 734  | 795  | 532  | 241  | 0    | 0    | 2,522 |
| <b>Total:</b>                          |                | 220         | 734  | 795  | 532  | 241  | 0    | 0    | 2,522 |

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

**Emergency Storms - WF**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects           | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q3/2007                 |
| <b>Project ID:</b>            | C4120-WF                       | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Various                        |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 95             | 128         | 100  | 100  | 100  | 100  | 100  | 100  | 823   |
| <b>Total:</b>                          | 95             | 128         | 100  | 100  | 100  | 100  | 100  | 100  | 823   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 95             | 128         | 100  | 100  | 100  | 100  | 100  | 100  | 823   |
| <b>Total*:</b>                         | 95             | 128         | 100  | 100  | 100  | 100  | 100  | 100  | 823   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 8    | 8    | 8    | 8    | 8    | 8    | 49    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 259         | 100  | 100  | 100  | 100  | 100  | 100  | 859   |
| <b>Total:</b>                          |                | 259         | 100  | 100  | 100  | 100  | 100  | 100  | 859   |

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

**Environmental Stewardship**

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

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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 3              | 0           | 210  | 100  | 100  | 0    | 0    | 0    | 413   |
| <b>Total:</b>                          | 3              | 0           | 210  | 100  | 100  | 0    | 0    | 0    | 413   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 3              | 0           | 210  | 100  | 100  | 0    | 0    | 0    | 413   |
| <b>Total*:</b>                         | 3              | 0           | 210  | 100  | 100  | 0    | 0    | 0    | 413   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 4    | 4    | 4    | 4    | 4    | 4    | 25    |

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

**First Hill Streetcar - WF**

|                               |                            |                                  |                                |
|-------------------------------|----------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects       | <b>BCL/Program Code:</b>         | C410B                          |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q1/2010                        |
| <b>Project ID:</b>            | C4130-WF                   | <b>End Date:</b>                 | Q4/2017                        |
| <b>Location:</b>              | First Hill                 |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017  | 2018  | 2019 | 2020 | Total |
|--|----------------|-------------|-------|-------|-------|-------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |       |       |       |       |      |      |       |
| Water Rates                            | 0              | 150         | 1,150 | 2,500 | 3,400 | 1,000 | 0    | 0    | 8,200 |
| <b>Total:</b>                          | 0              | 150         | 1,150 | 2,500 | 3,400 | 1,000 | 0    | 0    | 8,200 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |       |       |      |      |       |
| Water Fund                             | 0              | 150         | 1,150 | 2,500 | 3,400 | 1,000 | 0    | 0    | 8,200 |
| <b>Total*:</b>                         | 0              | 150         | 1,150 | 2,500 | 3,400 | 1,000 | 0    | 0    | 8,200 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 82    | 82    | 82    | 82    | 82   | 82   | 492   |
| <b>Spending Plan by Fund</b>           |                |             |       |       |       |       |      |      |       |
| Water Fund                             |                | 650         | 1,150 | 2,500 | 3,400 | 1,000 | 0    | 0    | 8,700 |
| <b>Total:</b>                          |                | 650         | 1,150 | 2,500 | 3,400 | 1,000 | 0    | 0    | 8,700 |

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

**Heavy Equipment Purchases - WF**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects           | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | New Investment                 | <b>Start Date:</b>               | ONGOING                 |
| <b>Project ID:</b>            | C4116-WF                       | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | N/A                            |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | Total  |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |       |       |       |       |        |
| Water Rates                            | 8,427          | 3,803       | 3,006 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 25,236 |
| <b>Total:</b>                          | 8,427          | 3,803       | 3,006 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 25,236 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |       |       |       |       |        |
| Water Fund                             | 8,427          | 3,803       | 3,006 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 25,236 |
| <b>Total*:</b>                         | 8,427          | 3,803       | 3,006 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 25,236 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 253   | 253   | 253   | 253   | 253   | 253   | 1,520  |
| <b>Spending Plan by Fund</b>           |                |             |       |       |       |       |       |       |        |
| Water Fund                             |                | 2,592       | 3,006 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 15,598 |
| <b>Total:</b>                          |                | 2,592       | 3,006 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 15,598 |

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



**Instream Flow Management Studies**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Habitat Conservation Program   | <b>BCL/Program Code:</b>         | C160B                   |
| <b>Project Type:</b>          | Improved Facility              | <b>Start Date:</b>               | Q4/2003                 |
| <b>Project ID:</b>            | C1608                          | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Cedar River Watershed          |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 4,917          | 204         | 208  | 212  | 216  | 221  | 225  | 230  | 6,433 |
| <b>Total:</b>                          | 4,917          | 204         | 208  | 212  | 216  | 221  | 225  | 230  | 6,433 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 4,917          | 204         | 208  | 212  | 216  | 221  | 225  | 230  | 6,433 |
| <b>Total*:</b>                         | 4,917          | 204         | 208  | 212  | 216  | 221  | 225  | 230  | 6,433 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 64   | 64   | 64   | 64   | 64   | 64   | 386   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 0           | 208  | 212  | 216  | 221  | 225  | 230  | 1,313 |
| <b>Total:</b>                          |                | 0           | 208  | 212  | 216  | 221  | 225  | 230  | 1,313 |

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

**2015 - 2020 Proposed Capital Improvement Program**

**Integrated Control Monitoring Program - WF**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects           | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | New Investment                 | <b>Start Date:</b>               | Q1/2002                 |
| <b>Project ID:</b>            | C4108-WF                       | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Various                        |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|------|------|------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |        |
| Water Rates                            | 7,385          | 405         | 480  | 480  | 480  | 480  | 480  | 480  | 10,670 |
| <b>Total:</b>                          | 7,385          | 405         | 480  | 480  | 480  | 480  | 480  | 480  | 10,670 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |        |
| Water Fund                             | 7,385          | 405         | 480  | 480  | 480  | 480  | 480  | 480  | 10,670 |
| <b>Total*:</b>                         | 7,385          | 405         | 480  | 480  | 480  | 480  | 480  | 480  | 10,670 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 107  | 107  | 107  | 107  | 107  | 107  | 640    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |        |
| Water Fund                             |                | 423         | 480  | 480  | 480  | 480  | 480  | 480  | 3,303  |
| <b>Total:</b>                          |                | 423         | 480  | 480  | 480  | 480  | 480  | 480  | 3,303  |

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

**2015 - 2020 Proposed Capital Improvement Program**

**Kerriston Road**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Watershed Stewardship          | <b>BCL/Program Code:</b>         | C130B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q1/2009                 |
| <b>Project ID:</b>            | C1314                          | <b>End Date:</b>                 | Q4/2013                 |
| <b>Location:</b>              | Cedar River Watershed          |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | Not in an Urban Village |

This project acquires properties adjacent to the lower Cedar River Municipal Watershed that are accessed via Kerriston Road which runs through the lower municipal watershed. Acquisition of these lands minimizes the risk to water quality from access through the watershed by the public. No funding has been requested for the 2013-2018 time frame but once specific acquisitions are identified, appropriate budget authority will be sought.

|  | LTD<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 752            | 17          | 0    | 0    | 0    | 0    | 0    | 0    | 769   |
| <b>Total:</b>                          | 752            | 17          | 0    | 0    | 0    | 0    | 0    | 0    | 769   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 752            | 17          | 0    | 0    | 0    | 0    | 0    | 0    | 769   |
| <b>Total*:</b>                         | 752            | 17          | 0    | 0    | 0    | 0    | 0    | 0    | 769   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 8    | 8    | 8    | 8    | 8    | 8    | 46    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 95          | 0    | 0    | 0    | 0    | 0    | 0    | 95    |
| <b>Total:</b>                          |                | 95          | 0    | 0    | 0    | 0    | 0    | 0    | 95    |

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

**Landsburg Chlorination Upgrades**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Quality & Treatment      | <b>BCL/Program Code:</b>         | C140B                   |
| <b>Project Type:</b>          | Improved Facility              | <b>Start Date:</b>               | Q1/2011                 |
| <b>Project ID:</b>            | C1417                          | <b>End Date:</b>                 | Q4/2016                 |
| <b>Location:</b>              | Cedar River Watershed          |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 0              | 1,016       | 0    | 0    | 0    | 0    | 0    | 0    | 1,016 |
| <b>Total:</b>                          | 0              | 1,016       | 0    | 0    | 0    | 0    | 0    | 0    | 1,016 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 0              | 1,016       | 0    | 0    | 0    | 0    | 0    | 0    | 1,016 |
| <b>Total*:</b>                         | 0              | 1,016       | 0    | 0    | 0    | 0    | 0    | 0    | 1,016 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 12   | 12   | 12   | 12   | 12   | 12   | 71    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0     |
| <b>Total:</b>                          |                | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0     |

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

**Mercer Corridor Project East Phase - WF**

|                               |                      |                                  |                  |
|-------------------------------|----------------------|----------------------------------|------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects | <b>BCL/Program Code:</b>         | C410B            |
| <b>Project Type:</b>          | Improved Facility    | <b>Start Date:</b>               | Q1/2007          |
| <b>Project ID:</b>            | C4114-WF             | <b>End Date:</b>                 | Q4/2014          |
| <b>Location:</b>              | South Lake Union     |                                  |                  |
| <b>Neighborhood Plan:</b>     | South Lake Union     | <b>Neighborhood Plan Matrix:</b> | 7/3              |
| <b>Neighborhood District:</b> | Lake Union           | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 3,428          | 30          | 0    | 0    | 0    | 0    | 0    | 0    | 3,458 |
| <b>Total:</b>                          | 3,428          | 30          | 0    | 0    | 0    | 0    | 0    | 0    | 3,458 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 3,428          | 30          | 0    | 0    | 0    | 0    | 0    | 0    | 3,458 |
| <b>Total*:</b>                         | 3,428          | 30          | 0    | 0    | 0    | 0    | 0    | 0    | 3,458 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 35   | 35   | 35   | 35   | 35   | 35   | 207   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 87          | 0    | 0    | 0    | 0    | 0    | 0    | 87    |
| <b>Total:</b>                          |                | 87          | 0    | 0    | 0    | 0    | 0    | 0    | 87    |

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

**Mercer Corridor Project West Phase - WF**

|                               |   |                                  |                                   |
|-------------------------------|---|----------------------------------|-----------------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects                    | <b>BCL/Program Code:</b>         | C410B                             |
| <b>Project Type:</b>          | Improved Facility                       | <b>Start Date:</b>               | Q1/2010                           |
| <b>Project ID:</b>            | C4133-WF                                | <b>End Date:</b>                 | Q4/2015                           |
| <b>Location:</b>              | Mercer ST /Elliot AVE W/Dexter AVE<br>N |                                  |                                   |
| <b>Neighborhood Plan:</b>     | In more than one Plan                   | <b>Neighborhood Plan Matrix:</b> | 7                                 |
| <b>Neighborhood District:</b> | In more than one District               | <b>Urban Village:</b>            | In more than one<br>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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 162            | 455         | 343  | 0    | 0    | 0    | 0    | 0    | 959   |
| <b>Total:</b>                          | 162            | 455         | 343  | 0    | 0    | 0    | 0    | 0    | 959   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 162            | 455         | 343  | 0    | 0    | 0    | 0    | 0    | 959   |
| <b>Total*:</b>                         | 162            | 455         | 343  | 0    | 0    | 0    | 0    | 0    | 959   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 10   | 10   | 10   | 10   | 10   | 10   | 58    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 332         | 343  | 0    | 0    | 0    | 0    | 0    | 675   |
| <b>Total:</b>                          |                | 332         | 343  | 0    | 0    | 0    | 0    | 0    | 675   |

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

**2015 - 2020 Proposed Capital Improvement Program**

**Meter Replacement - WF**

|                               |                               |                                  |                                |
|-------------------------------|-------------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects          | <b>BCL/Program Code:</b>         | C410B                          |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q1/2004                        |
| <b>Project ID:</b>            | C4101-WF                      | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                      |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 4,966          | 634         | 623  | 633  | 643  | 659  | 664  | 674  | 9,497 |
| <b>Total:</b>                          | 4,966          | 634         | 623  | 633  | 643  | 659  | 664  | 674  | 9,497 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 4,966          | 634         | 623  | 633  | 643  | 659  | 664  | 674  | 9,497 |
| <b>Total*:</b>                         | 4,966          | 634         | 623  | 633  | 643  | 659  | 664  | 674  | 9,497 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 95   | 95   | 95   | 95   | 95   | 95   | 570   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 579         | 623  | 633  | 643  | 659  | 664  | 674  | 4,476 |
| <b>Total:</b>                          |                | 579         | 623  | 633  | 643  | 659  | 664  | 674  | 4,476 |

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

**Morse Lake Pump Plant**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Resources                | <b>BCL/Program Code:</b>         | C150B                   |
| <b>Project Type:</b>          | Improved Facility              | <b>Start Date:</b>               | Q1/2003                 |
| <b>Project ID:</b>            | C1508                          | <b>End Date:</b>                 | Q4/2017                 |
| <b>Location:</b>              | Cedar River Watershed          |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016   | 2017  | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|-------|--------|-------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |       |        |       |      |      |      |        |
| Water Rates                            | 14,948         | 2,862       | 9,054 | 18,232 | 5,496 | 0    | 0    | 0    | 50,593 |
| <b>Total:</b>                          | 14,948         | 2,862       | 9,054 | 18,232 | 5,496 | 0    | 0    | 0    | 50,593 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |        |       |      |      |      |        |
| Water Fund                             | 14,948         | 2,862       | 9,054 | 18,232 | 5,496 | 0    | 0    | 0    | 50,593 |
| <b>Total*:</b>                         | 14,948         | 2,862       | 9,054 | 18,232 | 5,496 | 0    | 0    | 0    | 50,593 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 506   | 506    | 506   | 506  | 506  | 506  | 3,036  |
| <b>Spending Plan by Fund</b>           |                |             |       |        |       |      |      |      |        |
| Water Fund                             |                | 2,584       | 9,054 | 18,232 | 5,496 | 0    | 0    | 0    | 35,366 |
| <b>Total:</b>                          |                | 2,584       | 9,054 | 18,232 | 5,496 | 0    | 0    | 0    | 35,366 |

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



**Multiple Utility Relocation**

|                               |                               |                                  |                                |
|-------------------------------|-------------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution                  | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q1/2007                        |
| <b>Project ID:</b>            | C1133                         | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                      |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016 | 2017 | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|-------|------|------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |       |      |      |      |      |      |        |
| Water Rates                            | 5,359          | 2,629       | 1,317 | 271  | 563  | 574  | 586  | 597  | 11,897 |
| <b>Total:</b>                          | 5,359          | 2,629       | 1,317 | 271  | 563  | 574  | 586  | 597  | 11,897 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |      |      |      |      |      |        |
| Water Fund                             | 5,359          | 2,629       | 1,317 | 271  | 563  | 574  | 586  | 597  | 11,897 |
| <b>Total*:</b>                         | 5,359          | 2,629       | 1,317 | 271  | 563  | 574  | 586  | 597  | 11,897 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 119   | 119  | 119  | 119  | 119  | 119  | 714    |
| <b>Spending Plan by Fund</b>           |                |             |       |      |      |      |      |      |        |
| Water Fund                             |                | 849         | 1,317 | 271  | 563  | 574  | 586  | 597  | 4,757  |
| <b>Total:</b>                          |                | 849         | 1,317 | 271  | 563  | 574  | 586  | 597  | 4,757  |

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

**Operational Facility - Construction - WF**

|                               |                            |                                  |                         |
|-------------------------------|----------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects       | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q1/2004                 |
| <b>Project ID:</b>            | C4106-WF                   | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Citywide                   |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | In more than one District  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017  | 2018  | 2019  | 2020  | Total  |
|--|----------------|-------------|------|------|-------|-------|-------|-------|--------|
| <b>Revenue Sources</b>                 |                |             |      |      |       |       |       |       |        |
| Water Rates                            | 15,195         | 1,492       | 753  | 985  | 2,620 | 2,860 | 4,270 | 1,680 | 29,855 |
| <b>Total:</b>                          | 15,195         | 1,492       | 753  | 985  | 2,620 | 2,860 | 4,270 | 1,680 | 29,855 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |       |       |       |       |        |
| Water Fund                             | 15,195         | 1,492       | 753  | 985  | 2,620 | 2,860 | 4,270 | 1,680 | 29,855 |
| <b>Total*:</b>                         | 15,195         | 1,492       | 753  | 985  | 2,620 | 2,860 | 4,270 | 1,680 | 29,855 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 299  | 299  | 299   | 299   | 299   | 299   | 1,791  |
| <b>Spending Plan by Fund</b>           |                |             |      |      |       |       |       |       |        |
| Water Fund                             |                | 1,398       | 753  | 985  | 2,620 | 2,860 | 4,270 | 1,680 | 14,565 |
| <b>Total:</b>                          |                | 1,398       | 753  | 985  | 2,620 | 2,860 | 4,270 | 1,680 | 14,565 |

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

**Operational Facility - Other - WF**

|                               |                            |                                  |                         |
|-------------------------------|----------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects       | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q4/2006                 |
| <b>Project ID:</b>            | C4115-WF                   | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Various                    |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | In more than one District  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 973            | 256         | 400  | 350  | 0    | 0    | 0    | 0    | 1,979 |
| <b>Total:</b>                          | 973            | 256         | 400  | 350  | 0    | 0    | 0    | 0    | 1,979 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 973            | 256         | 400  | 350  | 0    | 0    | 0    | 0    | 1,979 |
| <b>Total*:</b>                         | 973            | 256         | 400  | 350  | 0    | 0    | 0    | 0    | 1,979 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 20   | 20   | 20   | 20   | 20   | 20   | 119   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 24          | 400  | 350  | 0    | 0    | 0    | 0    | 774   |
| <b>Total:</b>                          |                | 24          | 400  | 350  | 0    | 0    | 0    | 0    | 774   |

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

**2015 - 2020 Proposed Capital Improvement Program**

**Operations Control Center - WF**

|                               |                            |                                  |          |
|-------------------------------|----------------------------|----------------------------------|----------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects       | <b>BCL/Program Code:</b>         | C410B    |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q1/2003  |
| <b>Project ID:</b>            | C4105-WF                   | <b>End Date:</b>                 | ONGOING  |
| <b>Location:</b>              | 2700 Airport Way S         |                                  |          |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | 2        |
| <b>Neighborhood District:</b> | Greater Duwamish           | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 4,641          | 1,630       | 583  | 122  | 431  | 623  | 783  | 415  | 9,227 |
| <b>Total:</b>                          | 4,641          | 1,630       | 583  | 122  | 431  | 623  | 783  | 415  | 9,227 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 4,641          | 1,630       | 583  | 122  | 431  | 623  | 783  | 415  | 9,227 |
| <b>Total*:</b>                         | 4,641          | 1,630       | 583  | 122  | 431  | 623  | 783  | 415  | 9,227 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 92   | 92   | 92   | 92   | 92   | 92   | 554   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 1,089       | 583  | 122  | 431  | 623  | 783  | 415  | 4,044 |
| <b>Total:</b>                          |                | 1,089       | 583  | 122  | 431  | 623  | 783  | 415  | 4,044 |

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

**Other Major Transportation Projects - WF**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects           | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q2/2008                 |
| <b>Project ID:</b>            | C4123-WF                       | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Various                        |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 36             | 265         | 0    | 50   | 50   | 300  | 500  | 500  | 1,701 |
| <b>Total:</b>                          | 36             | 265         | 0    | 50   | 50   | 300  | 500  | 500  | 1,701 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 36             | 265         | 0    | 50   | 50   | 300  | 500  | 500  | 1,701 |
| <b>Total*:</b>                         | 36             | 265         | 0    | 50   | 50   | 300  | 500  | 500  | 1,701 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 17   | 17   | 17   | 17   | 17   | 17   | 102   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 19          | 0    | 50   | 50   | 300  | 500  | 500  | 1,419 |
| <b>Total:</b>                          |                | 19          | 0    | 50   | 50   | 300  | 500  | 500  | 1,419 |

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

**Pump Station Improvements**

|                               |                               |                                  |                                |
|-------------------------------|-------------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution                  | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q3/2008                        |
| <b>Project ID:</b>            | C1135                         | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                      |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | N/A                            |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017  | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|-------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |       |      |      |      |       |
| Water Rates                            | 251            | 250         | 125  | 700  | 2,225 | 125  | 125  | 125  | 3,926 |
| <b>Total:</b>                          | 251            | 250         | 125  | 700  | 2,225 | 125  | 125  | 125  | 3,926 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |       |      |      |      |       |
| Water Fund                             | 251            | 250         | 125  | 700  | 2,225 | 125  | 125  | 125  | 3,926 |
| <b>Total*:</b>                         | 251            | 250         | 125  | 700  | 2,225 | 125  | 125  | 125  | 3,926 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 39   | 39   | 39    | 39   | 39   | 39   | 236   |

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

**Purveyor Meters Replace - SPU**

|                               |                               |                                  |                         |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Transmission                  | <b>BCL/Program Code:</b>         | C120B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q1/2000                 |
| <b>Project ID:</b>            | C1206                         | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Regional                      |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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.

|  | <b>LTD<br/>Actuals</b> | <b>2014<br/>Rev</b> | <b>2015</b> | <b>2016</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>Total</b> |
|--|------------------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| <b>Revenue Sources</b>                 |                        |                     |             |             |             |             |             |             |              |
| Water Rates                            | 1,084                  | 102                 | 200         | 204         | 208         | 213         | 218         | 223         | 2,452        |
| <b>Total:</b>                          | 1,084                  | 102                 | 200         | 204         | 208         | 213         | 218         | 223         | 2,452        |
| <b>Fund Appropriations/Allocations</b> |                        |                     |             |             |             |             |             |             |              |
| Water Fund                             | 1,084                  | 102                 | 200         | 204         | 208         | 213         | 218         | 223         | 2,452        |
| <b>Total*:</b>                         | 1,084                  | 102                 | 200         | 204         | 208         | 213         | 218         | 223         | 2,452        |
| <b>O &amp; M Costs (Savings)</b>       |                        |                     | 25          | 25          | 25          | 25          | 25          | 25          | 147          |
| <b>Spending Plan by Fund</b>           |                        |                     |             |             |             |             |             |             |              |
| Water Fund                             |                        | 350                 | 200         | 204         | 208         | 213         | 218         | 223         | 1,616        |
| <b>Total:</b>                          |                        | 350                 | 200         | 204         | 208         | 213         | 218         | 223         | 1,616        |

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

**Regional Facility - WF**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects           | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | Improved Facility              | <b>Start Date:</b>               | Q1/2007                 |
| <b>Project ID:</b>            | C4107-WF                       | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Various                        |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | Total  |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |       |       |       |       |        |
| Water Rates                            | 5,437          | 6,515       | 5,109 | 5,750 | 8,124 | 6,035 | 1,870 | 1,319 | 40,159 |
| <b>Total:</b>                          | 5,437          | 6,515       | 5,109 | 5,750 | 8,124 | 6,035 | 1,870 | 1,319 | 40,159 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |       |       |       |       |        |
| Water Fund                             | 5,437          | 6,515       | 5,109 | 5,750 | 8,124 | 6,035 | 1,870 | 1,319 | 40,159 |
| <b>Total*:</b>                         | 5,437          | 6,515       | 5,109 | 5,750 | 8,124 | 6,035 | 1,870 | 1,319 | 40,159 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 402   | 402   | 402   | 402   | 402   | 402   | 2,410  |
| <b>Spending Plan by Fund</b>           |                |             |       |       |       |       |       |       |        |
| Water Fund                             |                | 7,630       | 5,109 | 5,750 | 8,124 | 6,035 | 1,870 | 1,319 | 35,837 |
| <b>Total:</b>                          |                | 7,630       | 5,109 | 5,750 | 8,124 | 6,035 | 1,870 | 1,319 | 35,837 |

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



**Regional Water Conservation Program**

|                               |                            |                                  |                                |
|-------------------------------|----------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Water Resources            | <b>BCL/Program Code:</b>         | C150B                          |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q1/1999                        |
| <b>Project ID:</b>            | C1504                      | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide Plus Wholesale    |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | Total  |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |       |       |       |       |        |
| Water Rates                            | 19,298         | 1,803       | 1,839 | 1,876 | 1,914 | 1,952 | 1,991 | 2,031 | 32,704 |
| <b>Total:</b>                          | 19,298         | 1,803       | 1,839 | 1,876 | 1,914 | 1,952 | 1,991 | 2,031 | 32,704 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |       |       |       |       |        |
| Water Fund                             | 19,298         | 1,803       | 1,839 | 1,876 | 1,914 | 1,952 | 1,991 | 2,031 | 32,704 |
| <b>Total*:</b>                         | 19,298         | 1,803       | 1,839 | 1,876 | 1,914 | 1,952 | 1,991 | 2,031 | 32,704 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 327   | 327   | 327   | 327   | 327   | 327   | 1,962  |
| <b>Spending Plan by Fund</b>           |                |             |       |       |       |       |       |       |        |
| Water Fund                             |                | 1,859       | 1,839 | 1,876 | 1,914 | 1,952 | 1,991 | 2,031 | 13,462 |
| <b>Total:</b>                          |                | 1,859       | 1,839 | 1,876 | 1,914 | 1,952 | 1,991 | 2,031 | 13,462 |

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

**Replace Air Valve Chambers**

|                               |                               |                                  |                         |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Transmission                  | <b>BCL/Program Code:</b>         | C120B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q3/1999                 |
| <b>Project ID:</b>            | C1209                         | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Citywide                      |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 1,648          | 117         | 122  | 125  | 125  | 127  | 130  | 133  | 2,526 |
| <b>Total:</b>                          | 1,648          | 117         | 122  | 125  | 125  | 127  | 130  | 133  | 2,526 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 1,648          | 117         | 122  | 125  | 125  | 127  | 130  | 133  | 2,526 |
| <b>Total*:</b>                         | 1,648          | 117         | 122  | 125  | 125  | 127  | 130  | 133  | 2,526 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 25   | 25   | 25   | 25   | 25   | 25   | 152   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 78          | 122  | 125  | 125  | 127  | 130  | 133  | 840   |
| <b>Total:</b>                          |                | 78          | 122  | 125  | 125  | 127  | 130  | 133  | 840   |

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

**Reservoir Covering-Bitter Lake**

|                               |                             |                                  |                         |
|-------------------------------|-----------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Quality & Treatment   | <b>BCL/Program Code:</b>         | C140B                   |
| <b>Project Type:</b>          | Improved Facility           | <b>Start Date:</b>               | Q1/2019                 |
| <b>Project ID:</b>            | C1419                       | <b>End Date:</b>                 | Q4/2020                 |
| <b>Location:</b>              | N 143rd St and Linden Ave N |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan  | <b>Neighborhood Plan Matrix:</b> | 5                       |
| <b>Neighborhood District:</b> | Northwest                   | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020  | Total |
|--|----------------|-------------|------|------|------|------|------|-------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |       |       |
| Water Rates                            | 0              | 0           | 0    | 0    | 0    | 0    | 590  | 1,790 | 2,380 |
| <b>Total:</b>                          | 0              | 0           | 0    | 0    | 0    | 0    | 590  | 1,790 | 2,380 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |       |       |
| Water Fund                             | 0              | 0           | 0    | 0    | 0    | 0    | 590  | 1,790 | 2,380 |
| <b>Total*:</b>                         | 0              | 0           | 0    | 0    | 0    | 0    | 590  | 1,790 | 2,380 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 0    | 0    | 0    | 0    | 24   | 24    | 48    |

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

**Reservoir Covering - Beacon**

|                               |                           |                                  |                         |
|-------------------------------|---------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Quality & Treatment | <b>BCL/Program Code:</b>         | C140B                   |
| <b>Project Type:</b>          | Improved Facility         | <b>Start Date:</b>               | Q1/2001                 |
| <b>Project ID:</b>            | C1408                     | <b>End Date:</b>                 | Q4/2016                 |
| <b>Location:</b>              | S Spokane St/Beacon Ave S |                                  |                         |
| <b>Neighborhood Plan:</b>     | North Beacon Hill         | <b>Neighborhood Plan Matrix:</b> | 2                       |
| <b>Neighborhood District:</b> | Greater Duwamish          | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016  | 2017 | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|------|-------|------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |      |       |      |      |      |      |        |
| Water Rates                            | 42,405         | 925         | 103  | 5,063 | 0    | 0    | 0    | 0    | 48,496 |
| <b>Total:</b>                          | 42,405         | 925         | 103  | 5,063 | 0    | 0    | 0    | 0    | 48,496 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |       |      |      |      |      |        |
| Water Fund                             | 42,405         | 925         | 103  | 5,063 | 0    | 0    | 0    | 0    | 48,496 |
| <b>Total*:</b>                         | 42,405         | 925         | 103  | 5,063 | 0    | 0    | 0    | 0    | 48,496 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 485  | 485   | 485  | 485  | 485  | 485  | 2,910  |
| <b>Spending Plan by Fund</b>           |                |             |      |       |      |      |      |      |        |
| Water Fund                             |                | 1,076       | 103  | 5,063 | 0    | 0    | 0    | 0    | 6,242  |
| <b>Total:</b>                          |                | 1,076       | 103  | 5,063 | 0    | 0    | 0    | 0    | 6,242  |

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

**Reservoir Covering - Maple Leaf**

|                               |                            |                                  |                         |
|-------------------------------|----------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Quality & Treatment  | <b>BCL/Program Code:</b>         | C140B                   |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q4/2001                 |
| <b>Project ID:</b>            | C1411                      | <b>End Date:</b>                 | Q2/2016                 |
| <b>Location:</b>              | NE 86th St/Roosevelt Wy NE |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | 5                       |
| <b>Neighborhood District:</b> | North                      | <b>Urban Village:</b>            | 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.

|  | <b>LTD<br/>Actuals</b> | <b>2014<br/>Rev</b> | <b>2015</b> | <b>2016</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>Total</b> |
|--|------------------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| <b>Revenue Sources</b>                 |                        |                     |             |             |             |             |             |             |              |
| Water Rates                            | 38,629                 | 5,187               | 7,036       | 1,008       | 0           | 0           | 0           | 0           | 51,860       |
| <b>Total:</b>                          | 38,629                 | 5,187               | 7,036       | 1,008       | 0           | 0           | 0           | 0           | 51,860       |
| <b>Fund Appropriations/Allocations</b> |                        |                     |             |             |             |             |             |             |              |
| Water Fund                             | 38,629                 | 5,187               | 7,036       | 1,008       | 0           | 0           | 0           | 0           | 51,860       |
| <b>Total*:</b>                         | 38,629                 | 5,187               | 7,036       | 1,008       | 0           | 0           | 0           | 0           | 51,860       |
| <b>O &amp; M Costs (Savings)</b>       |                        |                     | 519         | 519         | 519         | 519         | 519         | 519         | 3,112        |
| <b>Spending Plan by Fund</b>           |                        |                     |             |             |             |             |             |             |              |
| Water Fund                             |                        | 1,315               | 7,036       | 1,008       | 0           | 0           | 0           | 0           | 9,359        |
| <b>Total:</b>                          |                        | 1,315               | 7,036       | 1,008       | 0           | 0           | 0           | 0           | 9,359        |

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

**Reservoir Covering - Myrtle**

|                               |                            |                                  |                         |
|-------------------------------|----------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Quality & Treatment  | <b>BCL/Program Code:</b>         | C140B                   |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q4/2001                 |
| <b>Project ID:</b>            | C1410                      | <b>End Date:</b>                 | Q4/2016                 |
| <b>Location:</b>              | SW Myrtle St/35th Ave SW   |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | 1                       |
| <b>Neighborhood District:</b> | Southwest                  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017 | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|-------|-------|------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |      |      |      |      |        |
| Water Rates                            | 12,369         | 315         | 1,256 | 1,146 | 0    | 0    | 0    | 0    | 15,086 |
| <b>Total:</b>                          | 12,369         | 315         | 1,256 | 1,146 | 0    | 0    | 0    | 0    | 15,086 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |      |      |      |      |        |
| Water Fund                             | 12,369         | 315         | 1,256 | 1,146 | 0    | 0    | 0    | 0    | 15,086 |
| <b>Total*:</b>                         | 12,369         | 315         | 1,256 | 1,146 | 0    | 0    | 0    | 0    | 15,086 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 151   | 151   | 151  | 151  | 151  | 151  | 905    |
| <b>Spending Plan by Fund</b>           |                |             |       |       |      |      |      |      |        |
| Water Fund                             |                | 158         | 1,256 | 1,146 | 0    | 0    | 0    | 0    | 2,559  |
| <b>Total:</b>                          |                | 158         | 1,256 | 1,146 | 0    | 0    | 0    | 0    | 2,559  |

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

**Reservoir Covering - West Seattle**

|                               |                            |                                  |                         |
|-------------------------------|----------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Quality & Treatment  | <b>BCL/Program Code:</b>         | C140B                   |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q4/2001                 |
| <b>Project ID:</b>            | C1409                      | <b>End Date:</b>                 | Q1/2015                 |
| <b>Location:</b>              | SW Henderson St/8th Ave SW |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | 1                       |
| <b>Neighborhood District:</b> | Delridge                   | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016 | 2017 | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|-------|------|------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |       |      |      |      |      |      |        |
| Water Rates                            | 35,296         | 4,020       | 2,717 | 10   | 0    | 0    | 0    | 0    | 42,043 |
| <b>Total:</b>                          | 35,296         | 4,020       | 2,717 | 10   | 0    | 0    | 0    | 0    | 42,043 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |      |      |      |      |      |        |
| Water Fund                             | 35,296         | 4,020       | 2,717 | 10   | 0    | 0    | 0    | 0    | 42,043 |
| <b>Total*:</b>                         | 35,296         | 4,020       | 2,717 | 10   | 0    | 0    | 0    | 0    | 42,043 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 420   | 420  | 420  | 420  | 420  | 420  | 2,523  |
| <b>Spending Plan by Fund</b>           |                |             |       |      |      |      |      |      |        |
| Water Fund                             |                | 2,305       | 2,717 | 10   | 0    | 0    | 0    | 0    | 5,032  |
| <b>Total:</b>                          |                | 2,305       | 2,717 | 10   | 0    | 0    | 0    | 0    | 5,032  |

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

**Reservoir Covering-Lake Forest Park**

|                               |                            |                                  |                         |
|-------------------------------|----------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Quality & Treatment  | <b>BCL/Program Code:</b>         | C140B                   |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q1/2019                 |
| <b>Project ID:</b>            | C1418                      | <b>End Date:</b>                 | Q4/2020                 |
| <b>Location:</b>              |                            |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Outside Seattle City       | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020  | Total |
|--|----------------|-------------|------|------|------|------|------|-------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |       |       |
| Water Rates                            | 0              | 0           | 0    | 0    | 0    | 0    | 590  | 1,200 | 1,790 |
| <b>Total:</b>                          | 0              | 0           | 0    | 0    | 0    | 0    | 590  | 1,200 | 1,790 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |       |       |
| Water Fund                             | 0              | 0           | 0    | 0    | 0    | 0    | 590  | 1,200 | 1,790 |
| <b>Total*:</b>                         | 0              | 0           | 0    | 0    | 0    | 0    | 590  | 1,200 | 1,790 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 0    | 0    | 0    | 0    | 18   | 18    | 36    |

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



**Seattle Direct Service Additional Conservation**

|                               |                            |                                  |                                |
|-------------------------------|----------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Water Resources            | <b>BCL/Program Code:</b>         | C150B                          |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q1/2001                        |
| <b>Project ID:</b>            | C1505                      | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide & Direct Service  |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|------|------|------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |        |
| Water Rates                            | 6,402          | 690         | 566  | 577  | 589  | 601  | 613  | 625  | 10,662 |
| <b>Total:</b>                          | 6,402          | 690         | 566  | 577  | 589  | 601  | 613  | 625  | 10,662 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |        |
| Water Fund                             | 6,402          | 690         | 566  | 577  | 589  | 601  | 613  | 625  | 10,662 |
| <b>Total*:</b>                         | 6,402          | 690         | 566  | 577  | 589  | 601  | 613  | 625  | 10,662 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 107  | 107  | 107  | 107  | 107  | 107  | 640    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |        |
| Water Fund                             |                | 574         | 566  | 577  | 589  | 601  | 613  | 625  | 4,145  |
| <b>Total:</b>                          |                | 574         | 566  | 577  | 589  | 601  | 613  | 625  | 4,145  |

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

**Security Improvements - WF**

|                               |                            |                                  |                         |
|-------------------------------|----------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects       | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | Improved Facility          | <b>Start Date:</b>               | Q1/2005                 |
| <b>Project ID:</b>            | C4113-WF                   | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Citywide                   |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | In more than one District  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017 | 2018 | 2019  | 2020 | Total  |
|--|----------------|-------------|-------|-------|------|------|-------|------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |      |      |       |      |        |
| Water Rates                            | 6,228          | 1,713       | 1,078 | 1,050 | 950  | 950  | 1,300 | 950  | 14,219 |
| <b>Total:</b>                          | 6,228          | 1,713       | 1,078 | 1,050 | 950  | 950  | 1,300 | 950  | 14,219 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |      |      |       |      |        |
| Water Fund                             | 6,228          | 1,713       | 1,078 | 1,050 | 950  | 950  | 1,300 | 950  | 14,219 |
| <b>Total*:</b>                         | 6,228          | 1,713       | 1,078 | 1,050 | 950  | 950  | 1,300 | 950  | 14,219 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 142   | 142   | 142  | 142  | 142   | 142  | 853    |
| <b>Spending Plan by Fund</b>           |                |             |       |       |      |      |       |      |        |
| Water Fund                             |                | 1,036       | 1,078 | 1,050 | 950  | 950  | 1,300 | 950  | 7,314  |
| <b>Total:</b>                          |                | 1,036       | 1,078 | 1,050 | 950  | 950  | 1,300 | 950  | 7,314  |

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

**Sound Transit - North Link - WF**

|                               |                           |                                  |                                |
|-------------------------------|---------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects      | <b>BCL/Program Code:</b>         | C410B                          |
| <b>Project Type:</b>          | New Facility              | <b>Start Date:</b>               | Q1/2012                        |
| <b>Project ID:</b>            | C4135-WF                  | <b>End Date:</b>                 | Q4/2020                        |
| <b>Location:</b>              | Various                   |                                  |                                |
| <b>Neighborhood Plan:</b>     | In more than one Plan     | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 58             | 311         | 516  | 100  | 100  | 75   | 75   | 25   | 1,260 |
| <b>Total:</b>                          | 58             | 311         | 516  | 100  | 100  | 75   | 75   | 25   | 1,260 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 58             | 311         | 516  | 100  | 100  | 75   | 75   | 25   | 1,260 |
| <b>Total*:</b>                         | 58             | 311         | 516  | 100  | 100  | 75   | 75   | 25   | 1,260 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 13   | 13   | 13   | 13   | 13   | 13   | 76    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 788         | 516  | 100  | 100  | 75   | 75   | 25   | 1,680 |
| <b>Total:</b>                          |                | 788         | 516  | 100  | 100  | 75   | 75   | 25   | 1,680 |

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

**2015 - 2020 Proposed Capital Improvement Program**

**Sound Transit - Water Betterment**

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

This project funds improvements to watermains 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 1,502          | 50          | 50   | 0    | 0    | 0    | 0    | 0    | 1,602 |
| <b>Total:</b>                          | 1,502          | 50          | 50   | 0    | 0    | 0    | 0    | 0    | 1,602 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 1,502          | 50          | 50   | 0    | 0    | 0    | 0    | 0    | 1,602 |
| <b>Total*:</b>                         | 1,502          | 50          | 50   | 0    | 0    | 0    | 0    | 0    | 1,602 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 16   | 16   | 16   | 16   | 16   | 16   | 96    |

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

**Sound Transit – University Link - WF**

|                               |                           |                                  |                                |
|-------------------------------|---------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects      | <b>BCL/Program Code:</b>         | C410B                          |
| <b>Project Type:</b>          | New Facility              | <b>Start Date:</b>               | Q1/2007                        |
| <b>Project ID:</b>            | C4110-WF                  | <b>End Date:</b>                 | Q2/2016                        |
| <b>Location:</b>              | Various                   |                                  |                                |
| <b>Neighborhood Plan:</b>     | In more than one Plan     | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 329            | 137         | 30   | 10   | 0    | 0    | 0    | 0    | 506   |
| <b>Total:</b>                          | 329            | 137         | 30   | 10   | 0    | 0    | 0    | 0    | 506   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 329            | 137         | 30   | 10   | 0    | 0    | 0    | 0    | 506   |
| <b>Total*:</b>                         | 329            | 137         | 30   | 10   | 0    | 0    | 0    | 0    | 506   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 5    | 5    | 5    | 5    | 5    | 5    | 30    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 111         | 30   | 10   | 0    | 0    | 0    | 0    | 151   |
| <b>Total:</b>                          |                | 111         | 30   | 10   | 0    | 0    | 0    | 0    | 151   |

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

**Sound Transit-East Link**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects           | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | New Facility                   | <b>Start Date:</b>               | Q2/2013                 |
| <b>Project ID:</b>            | C4122-WF                       | <b>End Date:</b>                 | Q4/2015                 |
| <b>Location:</b>              | Various                        |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 0              | 40          | 53   | 10   | 0    | 0    | 0    | 0    | 103   |
| <b>Total:</b>                          | 0              | 40          | 53   | 10   | 0    | 0    | 0    | 0    | 103   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 0              | 40          | 53   | 10   | 0    | 0    | 0    | 0    | 103   |
| <b>Total*:</b>                         | 0              | 40          | 53   | 10   | 0    | 0    | 0    | 0    | 103   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 1    | 1    | 1    | 1    | 1    | 1    | 6     |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 53          | 53   | 10   | 0    | 0    | 0    | 0    | 115   |
| <b>Total:</b>                          |                | 53          | 53   | 10   | 0    | 0    | 0    | 0    | 115   |

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

**Stream & Riparian Restoration**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Habitat Conservation Program   | <b>BCL/Program Code:</b>         | C160B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q2/2000                 |
| <b>Project ID:</b>            | C1602                          | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Cedar River Watershed          |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 7,454          | 394         | 204  | 164  | 165  | 167  | 168  | 169  | 8,884 |
| <b>Total:</b>                          | 7,454          | 394         | 204  | 164  | 165  | 167  | 168  | 169  | 8,884 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 7,454          | 394         | 204  | 164  | 165  | 167  | 168  | 169  | 8,884 |
| <b>Total*:</b>                         | 7,454          | 394         | 204  | 164  | 165  | 167  | 168  | 169  | 8,884 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 89   | 89   | 89   | 89   | 89   | 89   | 533   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 375         | 204  | 164  | 165  | 167  | 168  | 169  | 1,411 |
| <b>Total:</b>                          |                | 375         | 204  | 164  | 165  | 167  | 168  | 169  | 1,411 |

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

**Tank Improvements**

|                               |                               |                                  |                                |
|-------------------------------|-------------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution                  | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q1/2008                        |
| <b>Project ID:</b>            | C1134                         | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                      |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 4,165          | 116         | 250  | 750  | 500  | 100  | 550  | 850  | 7,281 |
| <b>Total:</b>                          | 4,165          | 116         | 250  | 750  | 500  | 100  | 550  | 850  | 7,281 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 4,165          | 116         | 250  | 750  | 500  | 100  | 550  | 850  | 7,281 |
| <b>Total*:</b>                         | 4,165          | 116         | 250  | 750  | 500  | 100  | 550  | 850  | 7,281 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 73   | 73   | 73   | 73   | 73   | 73   | 437   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 1           | 250  | 750  | 500  | 100  | 550  | 850  | 3,001 |
| <b>Total:</b>                          |                | 1           | 250  | 750  | 500  | 100  | 550  | 850  | 3,001 |

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

**2015 - 2020 Proposed Capital Improvement Program**



**Tolt Bridges**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Watershed Stewardship          | <b>BCL/Program Code:</b>         | C130B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q1/2004                 |
| <b>Project ID:</b>            | C1308                          | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Tolt River Watershed           |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 0              | 0           | 0    | 450  | 450  | 0    | 0    | 0    | 900   |
| <b>Total:</b>                          | 0              | 0           | 0    | 450  | 450  | 0    | 0    | 0    | 900   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 0              | 0           | 0    | 450  | 450  | 0    | 0    | 0    | 900   |
| <b>Total*:</b>                         | 0              | 0           | 0    | 450  | 450  | 0    | 0    | 0    | 900   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 0    | 9    | 9    | 9    | 9    | 9    | 45    |

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

**Tolt Watershed Restoration**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Watershed Stewardship          | <b>BCL/Program Code:</b>         | C130B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q1/2009                 |
| <b>Project ID:</b>            | C1310                          | <b>End Date:</b>                 | Q4/2020                 |
| <b>Location:</b>              | Tolt River Watershed           |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 312            | 6           | 5    | 0    | 0    | 0    | 0    | 0    | 323   |
| <b>Total:</b>                          | 312            | 6           | 5    | 0    | 0    | 0    | 0    | 0    | 323   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 312            | 6           | 5    | 0    | 0    | 0    | 0    | 0    | 323   |
| <b>Total*:</b>                         | 312            | 6           | 5    | 0    | 0    | 0    | 0    | 0    | 323   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 3    | 3    | 3    | 3    | 3    | 3    | 19    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 15          | 5    | 0    | 0    | 0    | 0    | 0    | 20    |
| <b>Total:</b>                          |                | 15          | 5    | 0    | 0    | 0    | 0    | 0    | 20    |

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

**2015 - 2020 Proposed Capital Improvement Program**

**Transmission Pipelines Rehabilitation**

|                               |                               |                                  |                         |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Transmission                  | <b>BCL/Program Code:</b>         | C120B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q1/2005                 |
| <b>Project ID:</b>            | C1207                         | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Regional                      |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | Total  |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |       |       |       |       |        |
| Water Rates                            | 3,936          | 1,376       | 1,102 | 1,854 | 1,377 | 1,399 | 1,422 | 1,445 | 13,912 |
| <b>Total:</b>                          | 3,936          | 1,376       | 1,102 | 1,854 | 1,377 | 1,399 | 1,422 | 1,445 | 13,912 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |       |       |       |       |        |
| Water Fund                             | 3,936          | 1,376       | 1,102 | 1,854 | 1,377 | 1,399 | 1,422 | 1,445 | 13,912 |
| <b>Total*:</b>                         | 3,936          | 1,376       | 1,102 | 1,854 | 1,377 | 1,399 | 1,422 | 1,445 | 13,912 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 139   | 139   | 139   | 139   | 139   | 139   | 835    |
| <b>Spending Plan by Fund</b>           |                |             |       |       |       |       |       |       |        |
| Water Fund                             |                | 814         | 1,102 | 1,854 | 1,377 | 1,399 | 1,422 | 1,445 | 9,414  |
| <b>Total:</b>                          |                | 814         | 1,102 | 1,854 | 1,377 | 1,399 | 1,422 | 1,445 | 9,414  |

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

**Transmission Right-of-Way Improvements**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Watershed Stewardship          | <b>BCL/Program Code:</b>         | C130B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q1/2012                 |
| <b>Project ID:</b>            | C1316                          | <b>End Date:</b>                 | Q4/2014                 |
| <b>Location:</b>              | Various                        |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 117            | 20          | 85   | 0    | 0    | 0    | 0    | 0    | 222   |
| <b>Total:</b>                          | 117            | 20          | 85   | 0    | 0    | 0    | 0    | 0    | 222   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 117            | 20          | 85   | 0    | 0    | 0    | 0    | 0    | 222   |
| <b>Total*:</b>                         | 117            | 20          | 85   | 0    | 0    | 0    | 0    | 0    | 222   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 2    | 2    | 2    | 2    | 2    | 2    | 13    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 0           | 85   | 0    | 0    | 0    | 0    | 0    | 85    |
| <b>Total:</b>                          |                | 0           | 85   | 0    | 0    | 0    | 0    | 0    | 85    |

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

**Treatment Facility/Water Quality Improvements**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Quality & Treatment      | <b>BCL/Program Code:</b>         | C140B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q1/2007                 |
| <b>Project ID:</b>            | C1413                          | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Various                        |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 208            | 100         | 205  | 250  | 234  | 250  | 250  | 480  | 1,978 |
| <b>Total:</b>                          | 208            | 100         | 205  | 250  | 234  | 250  | 250  | 480  | 1,978 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 208            | 100         | 205  | 250  | 234  | 250  | 250  | 480  | 1,978 |
| <b>Total*:</b>                         | 208            | 100         | 205  | 250  | 234  | 250  | 250  | 480  | 1,978 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 20   | 20   | 20   | 20   | 20   | 20   | 119   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 220         | 205  | 250  | 234  | 250  | 250  | 480  | 1,889 |
| <b>Total:</b>                          |                | 220         | 205  | 250  | 234  | 250  | 250  | 480  | 1,889 |

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

**2015 - 2020 Proposed Capital Improvement Program**

**Upland Reserve Forest Restoration**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Habitat Conservation Program   | <b>BCL/Program Code:</b>         | C160B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q2/2000                 |
| <b>Project ID:</b>            | C1603                          | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Cedar River Watershed          |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 7,269          | 283         | 98   | 93   | 95   | 97   | 98   | 100  | 8,133 |
| <b>Total:</b>                          | 7,269          | 283         | 98   | 93   | 95   | 97   | 98   | 100  | 8,133 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 7,269          | 283         | 98   | 93   | 95   | 97   | 98   | 100  | 8,133 |
| <b>Total*:</b>                         | 7,269          | 283         | 98   | 93   | 95   | 97   | 98   | 100  | 8,133 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 81   | 81   | 81   | 81   | 81   | 81   | 488   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 192         | 98   | 93   | 95   | 97   | 98   | 100  | 773   |
| <b>Total:</b>                          |                | 192         | 98   | 93   | 95   | 97   | 98   | 100  | 773   |

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



**Water Infrastructure - Hydrant Replacement/Relocation**

|                               |                               |                                  |                                |
|-------------------------------|-------------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution                  | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q4/1998                        |
| <b>Project ID:</b>            | C1110                         | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                      |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 4,780          | 371         | 204  | 208  | 212  | 216  | 221  | 225  | 6,438 |
| <b>Total:</b>                          | 4,780          | 371         | 204  | 208  | 212  | 216  | 221  | 225  | 6,438 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 4,780          | 371         | 204  | 208  | 212  | 216  | 221  | 225  | 6,438 |
| <b>Total*:</b>                         | 4,780          | 371         | 204  | 208  | 212  | 216  | 221  | 225  | 6,438 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 64   | 64   | 64   | 64   | 64   | 64   | 386   |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 200         | 204  | 208  | 212  | 216  | 221  | 225  | 1,486 |
| <b>Total:</b>                          |                | 200         | 204  | 208  | 212  | 216  | 221  | 225  | 1,486 |

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



**Water Infrastructure - New Hydrants**

|                               |                            |                                  |                                |
|-------------------------------|----------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution               | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | New Facility               | <b>Start Date:</b>               | Q2/1999                        |
| <b>Project ID:</b>            | C1112                      | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                   |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 521            | 106         | 61   | 25   | 13   | 13   | 13   | 14   | 765   |
| <b>Total:</b>                          | 521            | 106         | 61   | 25   | 13   | 13   | 13   | 14   | 765   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 521            | 106         | 61   | 25   | 13   | 13   | 13   | 14   | 765   |
| <b>Total*:</b>                         | 521            | 106         | 61   | 25   | 13   | 13   | 13   | 14   | 765   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 8    | 8    | 8    | 8    | 8    | 8    | 46    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 106         | 61   | 25   | 13   | 13   | 13   | 14   | 245   |
| <b>Total:</b>                          |                | 106         | 61   | 25   | 13   | 13   | 13   | 14   | 245   |

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

**Water Infrastructure - New Taps**

|                               |                            |                                  |                                |
|-------------------------------|----------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution               | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | New Facility               | <b>Start Date:</b>               | Q4/1998                        |
| <b>Project ID:</b>            | C1113                      | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                   |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | Total   |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|---------|
| <b>Revenue Sources</b>                 |                |             |       |       |       |       |       |       |         |
| Water Rates                            | 101,231        | 4,900       | 6,000 | 6,120 | 6,242 | 6,367 | 6,495 | 6,624 | 143,980 |
| <b>Total:</b>                          | 101,231        | 4,900       | 6,000 | 6,120 | 6,242 | 6,367 | 6,495 | 6,624 | 143,980 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |       |       |       |       |         |
| Water Fund                             | 101,231        | 4,900       | 6,000 | 6,120 | 6,242 | 6,367 | 6,495 | 6,624 | 143,980 |
| <b>Total*:</b>                         | 101,231        | 4,900       | 6,000 | 6,120 | 6,242 | 6,367 | 6,495 | 6,624 | 143,980 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 1,440 | 1,440 | 1,440 | 1,440 | 1,440 | 1,440 | 8,639   |
| <b>Spending Plan by Fund</b>           |                |             |       |       |       |       |       |       |         |
| Water Fund                             |                | 6,000       | 6,000 | 6,120 | 6,242 | 6,367 | 6,495 | 6,624 | 43,849  |
| <b>Total:</b>                          |                | 6,000       | 6,000 | 6,120 | 6,242 | 6,367 | 6,495 | 6,624 | 43,849  |

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

**Water Infrastructure - Service Renewal**

|                               |                               |                                  |                                |
|-------------------------------|-------------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution                  | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q4/1998                        |
| <b>Project ID:</b>            | C1109                         | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                      |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | Total   |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|---------|
| <b>Revenue Sources</b>                 |                |             |       |       |       |       |       |       |         |
| Water Rates                            | 100,763        | 5,837       | 4,986 | 5,086 | 5,188 | 5,291 | 5,397 | 5,505 | 138,053 |
| <b>Total:</b>                          | 100,763        | 5,837       | 4,986 | 5,086 | 5,188 | 5,291 | 5,397 | 5,505 | 138,053 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |       |       |       |       |         |
| Water Fund                             | 100,763        | 5,837       | 4,986 | 5,086 | 5,188 | 5,291 | 5,397 | 5,505 | 138,053 |
| <b>Total*:</b>                         | 100,763        | 5,837       | 4,986 | 5,086 | 5,188 | 5,291 | 5,397 | 5,505 | 138,053 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 1,381 | 1,381 | 1,381 | 1,381 | 1,381 | 1,381 | 8,283   |
| <b>Spending Plan by Fund</b>           |                |             |       |       |       |       |       |       |         |
| Water Fund                             |                | 5,837       | 4,986 | 5,086 | 5,188 | 5,291 | 5,397 | 5,505 | 37,290  |
| <b>Total:</b>                          |                | 5,837       | 4,986 | 5,086 | 5,188 | 5,291 | 5,397 | 5,505 | 37,290  |

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

**2015 - 2020 Proposed Capital Improvement Program**

**Water Infrastructure - Watermain Extensions**

|                               |                            |                                  |                                |
|-------------------------------|----------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution               | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | New Facility               | <b>Start Date:</b>               | Q1/1998                        |
| <b>Project ID:</b>            | C1111                      | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Citywide                   |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District  | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total  |
|--|----------------|-------------|------|------|------|------|------|------|--------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |        |
| Water Rates                            | 13,392         | 796         | 812  | 828  | 845  | 862  | 879  | 897  | 19,310 |
| <b>Total:</b>                          | 13,392         | 796         | 812  | 828  | 845  | 862  | 879  | 897  | 19,310 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |        |
| Water Fund                             | 13,392         | 796         | 812  | 828  | 845  | 862  | 879  | 897  | 19,310 |
| <b>Total*:</b>                         | 13,392         | 796         | 812  | 828  | 845  | 862  | 879  | 897  | 19,310 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 193  | 193  | 193  | 193  | 193  | 193  | 1,159  |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |        |
| Water Fund                             |                | 796         | 812  | 828  | 845  | 862  | 879  | 897  | 5,919  |
| <b>Total:</b>                          |                | 796         | 812  | 828  | 845  | 862  | 879  | 897  | 5,919  |

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

**Water Quality Equipment**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Quality & Treatment      | <b>BCL/Program Code:</b>         | C140B                   |
| <b>Project Type:</b>          | Improved Facility              | <b>Start Date:</b>               | Q1/2007                 |
| <b>Project ID:</b>            | C1414                          | <b>End Date:</b>                 | Q4/2015                 |
| <b>Location:</b>              | Various                        |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 249            | 143         | 101  | 100  | 0    | 0    | 0    | 0    | 593   |
| <b>Total:</b>                          | 249            | 143         | 101  | 100  | 0    | 0    | 0    | 0    | 593   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 249            | 143         | 101  | 100  | 0    | 0    | 0    | 0    | 593   |
| <b>Total*:</b>                         | 249            | 143         | 101  | 100  | 0    | 0    | 0    | 0    | 593   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 6    | 6    | 6    | 6    | 6    | 6    | 36    |

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

**Water Supply Flexibility Program**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Resources                | <b>BCL/Program Code:</b>         | C150B                   |
| <b>Project Type:</b>          | New Investment                 | <b>Start Date:</b>               | Q1/2008                 |
| <b>Project ID:</b>            | C1507                          | <b>End Date:</b>                 | Q4/2016                 |
| <b>Location:</b>              | Multiple                       |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | N/A                     |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|-------|-------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |       |       |      |      |      |      |       |
| Water Rates                            | 333            | 869         | 1,480 | 2,053 | 0    | 0    | 0    | 0    | 4,735 |
| <b>Total:</b>                          | 333            | 869         | 1,480 | 2,053 | 0    | 0    | 0    | 0    | 4,735 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |      |      |      |      |       |
| Water Fund                             | 333            | 869         | 1,480 | 2,053 | 0    | 0    | 0    | 0    | 4,735 |
| <b>Total*:</b>                         | 333            | 869         | 1,480 | 2,053 | 0    | 0    | 0    | 0    | 4,735 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 47    | 47    | 47   | 47   | 47   | 47   | 284   |
| <b>Spending Plan by Fund</b>           |                |             |       |       |      |      |      |      |       |
| Water Fund                             |                | 0           | 1,480 | 2,053 | 0    | 0    | 0    | 0    | 3,533 |
| <b>Total:</b>                          |                | 0           | 1,480 | 2,053 | 0    | 0    | 0    | 0    | 3,533 |

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

**Water System Dewatering**

|                               |                               |                                  |                         |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Transmission                  | <b>BCL/Program Code:</b>         | C120B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q1/2007                 |
| <b>Project ID:</b>            | C1205                         | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Regional                      |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 199            | 102         | 50   | 24   | 25   | 27   | 30   | 33   | 490   |
| <b>Total:</b>                          | 199            | 102         | 50   | 24   | 25   | 27   | 30   | 33   | 490   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 199            | 102         | 50   | 24   | 25   | 27   | 30   | 33   | 490   |
| <b>Total*:</b>                         | 199            | 102         | 50   | 24   | 25   | 27   | 30   | 33   | 490   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 5    | 5    | 5    | 5    | 5    | 5    | 29    |
| <b>Spending Plan by Fund</b>           |                |             |      |      |      |      |      |      |       |
| Water Fund                             |                | 45          | 50   | 24   | 25   | 27   | 30   | 33   | 234   |
| <b>Total:</b>                          |                | 45          | 50   | 24   | 25   | 27   | 30   | 33   | 234   |

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

**Water System Plan - 2019**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Water Resources                | <b>BCL/Program Code:</b>         | C150B                   |
| <b>Project Type:</b>          | New Investment                 | <b>Start Date:</b>               | Q1/2016                 |
| <b>Project ID:</b>            | C1510                          | <b>End Date:</b>                 | Q4/2019                 |
| <b>Location:</b>              | N/A                            |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Multiple                |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 0              | 0           | 0    | 110  | 541  | 454  | 59   | 0    | 1,164 |
| <b>Total:</b>                          | 0              | 0           | 0    | 110  | 541  | 454  | 59   | 0    | 1,164 |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 0              | 0           | 0    | 110  | 541  | 454  | 59   | 0    | 1,164 |
| <b>Total*:</b>                         | 0              | 0           | 0    | 110  | 541  | 454  | 59   | 0    | 1,164 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 0    | 12   | 12   | 12   | 12   | 12   | 58    |

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

**2015 - 2020 Proposed Capital Improvement Program**



**Watermain Rehabilitation**

|                               |                               |                                  |                                |
|-------------------------------|-------------------------------|----------------------------------|--------------------------------|
| <b>BCL/Program Name:</b>      | Distribution                  | <b>BCL/Program Code:</b>         | C110B                          |
| <b>Project Type:</b>          | Rehabilitation or Restoration | <b>Start Date:</b>               | Q1/2004                        |
| <b>Project ID:</b>            | C1129                         | <b>End Date:</b>                 | ONGOING                        |
| <b>Location:</b>              | Regional                      |                                  |                                |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan    | <b>Neighborhood Plan Matrix:</b> | Multiple                       |
| <b>Neighborhood District:</b> | In more than one District     | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | Total  |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |       |       |       |       |        |
| Water Rates                            | 6,980          | 4,426       | 3,137 | 1,078 | 3,182 | 7,513 | 4,411 | 4,010 | 34,737 |
| <b>Total:</b>                          | 6,980          | 4,426       | 3,137 | 1,078 | 3,182 | 7,513 | 4,411 | 4,010 | 34,737 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |       |       |       |       |        |
| Water Fund                             | 6,980          | 4,426       | 3,137 | 1,078 | 3,182 | 7,513 | 4,411 | 4,010 | 34,737 |
| <b>Total*:</b>                         | 6,980          | 4,426       | 3,137 | 1,078 | 3,182 | 7,513 | 4,411 | 4,010 | 34,737 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 347   | 347   | 347   | 347   | 347   | 347   | 2,084  |
| <b>Spending Plan by Fund</b>           |                |             |       |       |       |       |       |       |        |
| Water Fund                             |                | 1,150       | 3,137 | 1,078 | 3,182 | 7,513 | 4,411 | 4,010 | 24,481 |
| <b>Total:</b>                          |                | 1,150       | 3,137 | 1,078 | 3,182 | 7,513 | 4,411 | 4,010 | 24,481 |

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

**Watershed Road Improvement/Decommissioning**

|                               |                                |                                  |                         |
|-------------------------------|--------------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Habitat Conservation Program   | <b>BCL/Program Code:</b>         | C160B                   |
| <b>Project Type:</b>          | Rehabilitation or Restoration  | <b>Start Date:</b>               | Q1/2001                 |
| <b>Project ID:</b>            | C1601                          | <b>End Date:</b>                 | ONGOING                 |
| <b>Location:</b>              | Cedar River Watershed          |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan     | <b>Neighborhood Plan Matrix:</b> | Outside Seattle         |
| <b>Neighborhood District:</b> | Not in a Neighborhood District | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | Total  |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|--------|
| <b>Revenue Sources</b>                 |                |             |       |       |       |       |       |       |        |
| Water Rates                            | 11,922         | 1,004       | 1,090 | 1,106 | 1,124 | 1,140 | 1,157 | 1,175 | 19,718 |
| <b>Total:</b>                          | 11,922         | 1,004       | 1,090 | 1,106 | 1,124 | 1,140 | 1,157 | 1,175 | 19,718 |
| <b>Fund Appropriations/Allocations</b> |                |             |       |       |       |       |       |       |        |
| Water Fund                             | 11,922         | 1,004       | 1,090 | 1,106 | 1,124 | 1,140 | 1,157 | 1,175 | 19,718 |
| <b>Total*:</b>                         | 11,922         | 1,004       | 1,090 | 1,106 | 1,124 | 1,140 | 1,157 | 1,175 | 19,718 |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 197   | 197   | 197   | 197   | 197   | 197   | 1,183  |
| <b>Spending Plan by Fund</b>           |                |             |       |       |       |       |       |       |        |
| Water Fund                             |                | 794         | 1,090 | 1,106 | 1,124 | 1,140 | 1,157 | 1,175 | 7,586  |
| <b>Total:</b>                          |                | 794         | 1,090 | 1,106 | 1,124 | 1,140 | 1,157 | 1,175 | 7,586  |

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

**Yesler Terrace-WF**

|                               |                            |                                  |                         |
|-------------------------------|----------------------------|----------------------------------|-------------------------|
| <b>BCL/Program Name:</b>      | Shared Cost Projects       | <b>BCL/Program Code:</b>         | C410B                   |
| <b>Project Type:</b>          | New Facility               | <b>Start Date:</b>               | Q1/2014                 |
| <b>Project ID:</b>            | C4136-WF                   | <b>End Date:</b>                 | Q4/2014                 |
| <b>Location:</b>              | Yesler and Broadway        |                                  |                         |
| <b>Neighborhood Plan:</b>     | Not in a Neighborhood Plan | <b>Neighborhood Plan Matrix:</b> | 3                       |
| <b>Neighborhood District:</b> | Central                    | <b>Urban Village:</b>            | 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<br>Actuals | 2014<br>Rev | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |
|--|----------------|-------------|------|------|------|------|------|------|-------|
| <b>Revenue Sources</b>                 |                |             |      |      |      |      |      |      |       |
| Water Rates                            | 0              | 200         | 0    | 0    | 0    | 0    | 0    | 0    | 200   |
| <b>Total:</b>                          | 0              | 200         | 0    | 0    | 0    | 0    | 0    | 0    | 200   |
| <b>Fund Appropriations/Allocations</b> |                |             |      |      |      |      |      |      |       |
| Water Fund                             | 0              | 200         | 0    | 0    | 0    | 0    | 0    | 0    | 200   |
| <b>Total*:</b>                         | 0              | 200         | 0    | 0    | 0    | 0    | 0    | 0    | 200   |
| <b>O &amp; M Costs (Savings)</b>       |                |             | 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.*