

**SPU -
DRAINAGE AND
WASTEWATER**

Overview of Facilities and Programs

Seattle Public Utilities (SPU) is responsible for maintaining the network of sewer and drainage systems throughout the City of Seattle. The system includes approximately:

- 530 miles of sanitary sewers
- 500 miles of storm drains
- 1,000 miles of combined sewers
- 768 pump stations
- 93 permitted combined sewer overflow outfalls
- 277 storm drain outfalls
- 34 combined sewer overflow control detention tanks/pipes

Seattle Public Utilities' Capital Improvement Program (CIP) is the vehicle for maintaining, upgrading, and expanding this infrastructure, as well as constructing projects that protect, conserve, and enhance our region's environmental resources. The overriding goal of the CIP is to ensure facilities are properly constructed and maintained, and regulatory requirements are met. Projects in the CIP are also guided by various federal regulations, City policies, long-term plan documents, and the SPU Asset Management Committee (AMC) benefit criteria. Many Drainage and Wastewater (DWF) CIP projects are outlined in the Combined Sewer Overflow Reduction Plan and the Comprehensive Drainage Plan.

Historically, the DWF CIP has been funded primarily by revenue bonds. However, DWF financial policies adopted in 2003 gradually increase cash contributions from the Utility to the CIP to 25% of total CIP costs, by 2007. Overhead costs for the CIP are budgeted in the SPU operating fund and are reimbursed as CIP expenditures are incurred.

Highlights

- **Combined Sewer Overflow (CSO) Program:** Approximately \$8 million is included in the 2007-2012 Adopted CIP for the combined sewer overflow program. In many parts of Seattle, sewage and stormwater flow together in pipes through a Combined Sewer System. Heavy rains may cause these pipes to fill, causing overflows through outfalls into Lake Union, Lake Washington, or Puget Sound. Projects in the 2007-2012 Adopted CIP respond to federal regulations requiring the City to monitor and reduce CSOs.
- **Flood Control, Local Drainage, and Water Quality:** The City's Comprehensive Drainage Plan (CDP), originally written in 1988, was updated in 2004 to address flooding and water quality needs in a systematic manner citywide, and to establish a long-term schedule of both capital improvements and operating programs. This work is also intended to comply with the requirements of the pending renewal of Seattle's Federal Stormwater Permit. The CIP includes projects to implement both the CDP and the Mayor's Restore Our Waters Strategy to protect Seattle's aquatic environment. The CIP also includes funding from the Cumulative Reserve Subfund to continue an assessment of City-owned facilities for drainage and stormwater code compliance.
- **Sediments:** The City of Seattle is named as a potentially-responsible party (PRP) for the Duwamish River Superfund Site because of alleged contamination of sediments in the river from CSO and storm drain discharges. The City continues to work with the Washington State Department of Ecology, King County, and other PRPs on an assessment of contaminants and sources.

Project Selection Process

SPU has adopted an Asset Management approach for selecting which projects to build. This is a triple bottom line approach in which projects are evaluated on their economic, social, and environmental benefits and their ability to meet customer service levels. The approach provides an elaborate analytical and modeling framework to find the most economical balance between capital investments and operations and maintenance expenditures to minimize life cycle costs of any facility.

A committee of senior SPU executives, the Asset Management Committee (AMC), reviews each project valued at \$250,000 or more and assures that only projects that meet the benefit criteria move forward. Several projects have been dropped, as their costs were higher than their benefits. Several cost-effective master planning efforts were approved to create up-to-date improvement and upgrade plans for several groups of assets. Other projects have been expanded or expedited because their benefits exceeded their costs.

Program Category Summaries

The Drainage and Wastewater CIP totals almost \$52 million in 2007 (including Technology projects funded by the Drainage and Wastewater Fund, displayed in a separate section of this CIP). It is composed of nine program categories, summarized below. A detailed listing of all projects in the Drainage and Wastewater CIP follows this overview.

Control Structures: This program contains projects to plan, design, construct, and monitor facilities to control overflows from the combined- and partially-separated sewer system areas. Of the 105 CSO points, control technologies have been applied to 99. Monitoring of the effectiveness of these controls has resulted in SPU initiating additional work at a number of locations, as noted in the adopted CSO Plan amendment. The adopted CSO Plan amendment also discusses the plan for control of those CSO locations where work has not yet been completed.

Sediments: This program funds sediment remediation studies and analyses as well as cleanup of contaminated sediment sites in which the City is a participant. In 2007, the South Park Soil Project is included in this program. The project funds long-term mitigation of PCB contamination discovered in South Park across the street from the Terminal 117 Superfund Early Action cleanup site. Starting in 2005, per Ordinance 121796, this program includes the Sediment Remediation – Drainage project.

Landslide Mitigation & Special Programs: The projects and programs in this program category protect SPU drainage and wastewater infrastructure from landslides, provide drainage improvements where surface water generated from the city right-of-way is contributing to landslides, and manage stormwater policy and grants, interdepartmental coordination and programs, and citizen response activities.

Low Impact Development: The projects and programs in this program category use multiple functionality stormwater facilities for achieving the surface water primary goals of flood protection, water quality improvement and/or habitat enhancement.

Protection of Beneficial Uses: This program makes improvements to the City's drainage system to reduce the harmful effects of stormwater runoff on creeks and receiving water bodies by improving water quality and protecting or enhancing habitat. The program includes projects to improve water quality, protect creeks, meet regulatory requirements, and use best available science to meet community expectations for habitat.

Shared Cost Projects: This program includes capital improvement projects that receive funding from multiple SPU funds. In 2007, the program includes funding for the Utility Relocation due to the Alaskan Way Viaduct & Seawall, Operational Facility Improvements, the Operations Control Center Upgrade, Security Improvements, and Sound Transit Light Rail.

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Stormwater & Flood Control: The projects and programs in this category make improvements to the City's drainage system to alleviate and prevent flooding in Seattle, with a primary focus on the protection of public health, safety and property.

Technology: This program makes use of recent technological advances to increase the Department's efficiency and productivity. Drainage and Wastewater-supported technology projects are shown grouped with other technology projects following the Department's three CIP sections. In 2007, SPU continues analyzing and evaluating data and systems to move drainage billing from the King County property tax system to the City's drainage billing system.

Wastewater Conveyance: This program rehabilitates the City's collection system of sewer pipes. The Department establishes priorities for the program primarily based on the results of closed circuit television inspections and an asset management criticality analysis. The program funds full and partial replacement of sewer line segments, point repairs, and lining of pipes, as well as costs for emergency repairs.

Anticipated Operating Expenses Associated with Capital Facilities Projects

For most projects in the Drainage and Wastewater CIP, there are no new 2007 operations and maintenance costs, or these costs have not been calculated (N/C). In these cases, the cost impacts of the projects are either insignificant or offset by cost savings realized by other projects.

City Council Provisos to the CIP

The Council adopted the following capital budget provisos:

No more than \$300,000 of the money appropriated for 2007 for the Seattle Public Utilities' Shared Cost Projects BCL may be spent for the Demand Management project (Project ID C407019), until authorized by a future ordinance.

No more than \$1,674,000 of the money appropriated for 2007 for the Seattle Public Utilities' Shared Cost Projects BCL may be spent for the Operational Facility Construction project (Project ID C4106), until authorized by a future ordinance.

No more than \$1,508,000 of the money appropriated for 2007 for the Seattle Public Utilities' Shared Cost Projects BCL may be spent for the Security Improvements project (Project ID C4113), until authorized by a future ordinance.

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Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Control Structures										BCL/Program Code: C310B
Ballard Combined Sewer Overflow	C303101	0	0	0	285	211	164	478	593	1,730
Capital Planning - CSO Plan Implementation	C305101	190	150	385	142	197	184	224	164	1,636
Capital Planning Pump Stations	C307011	0	0	267	42	79	74	90	66	617
Combined Sewer Overflow Facility Retrofit	C302102	3,120	554	567	954	786	736	895	658	8,270
Combined Sewer Overflow Operations & Maintenance Plan	C307005	0	0	411	328	275	368	448	0	1,830
Combined Sewer Overflow Optimization Study	C307009	0	0	0	0	39	0	0	0	39
Combined Sewer Overflow Plan Update	C3AA103	1,863	550	703	349	79	74	45	0	3,662
Combined Sewer Overflow Reporting/Public Notice	C307008	0	0	115	45	0	0	0	0	161
Combined Sewer Overflow Structure Configuration Management	C306101	0	100	116	49	0	0	0	0	265
Combined Sewer Overflow Supplemental Characterization	C307006	0	0	80	88	0	0	0	0	168
Force Main Improvements	C3103	0	0	591	464	393	368	448	329	2,593
Fremont-Wallingford Combined Sewer Overflow	C303102	0	0	0	279	198	152	875	1,065	2,568
Future Combined Sewer Overflow Reduction	C309002	0	0	0	0	590	552	895	658	2,695
Nine Minimum Controls Compliance	C307004	0	0	117	94	0	0	0	0	211
Post -Construction Monitoring	C307003	0	0	59	47	79	74	90	0	348
Pump Station Improvements	C3102	452	400	661	521	1,337	1,251	1,522	1,118	7,262

*Amounts in thousands of dollars

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Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Control Structures						BCL/Program Code:				C310B
Pump Station Optimization Study	C307012	0	0	0	0	79	37	0	0	115
S Genesee Combined Sewer Overflow	C303103	305	325	1,183	48	660	1,559	2,418	6,551	13,049
S Henderson Combined Sewer Overflow Storage	C304102	368	325	577	1,001	251	2,265	3,884	7,900	16,571
Sediment Survey	C307007	0	0	107	5	0	0	0	0	112
Windermere Combined Sewer Overflow Storage	C302103	816	325	1,055	566	3,864	3,698	198	35	10,556
Control Structures Total		7,114	2,729	6,995	5,308	9,115	11,553	12,509	19,135	74,460

*Amounts in thousands of dollars

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Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Landslide Mitigation & Special Programs						BCL/Program Code:				C335B
1500 - 2600 Aurora N Landslide	C363401	0	31	1	57	47	155	895	0	1,186
47 SW & SW Maplewood Place Landslide	C363402	0	50	1	37	81	77	479	0	726
Aquatic Habitat Matching Grant Project	C353301	1	300	308	315	323	331	339	348	2,265
Capital Planning - Public Asset Protection	C343401	167	100	463	136	288	184	87	309	1,734
Design Standards & Guidelines - DRN	C353501	40	130	449	194	0	0	0	0	812
Drainage & Wastewater Partnership Program - DRN	C3335	0	0	350	750	1,573	1,471	1,791	1,315	7,250
Drainage Spot Improvements	C333201	801	500	271	214	197	184	224	164	2,555
GIS System Enhancements	C343502	220	45	97	80	71	0	0	0	513
Golden Gardens/View Avenue Landslide	C343403	135	100	293	1	0	0	0	0	529
Greenwood Peat Bog	C333207	215	20	25	13	85	0	0	0	359
Intergovernmental Shares - DRN	C3355	1,984	2,000	1,700	1,800	0	0	0	0	7,484
Mobility Improvement	C333514	600	300	308	315	323	331	339	348	2,864
Other Agency Opportunity - DRN	C3345	1	400	139	112	847	812	1,014	744	4,068
Outfall Rehabilitation Program - DRN	C353207	63	200	239	549	488	456	555	408	2,958
Raincatcher Creek Pilot Project	C307015	0	0	235	212	0	0	0	0	447
Salmon Bay Phase 2 Acquisition & Restoration	C333307	516	10	106	83	0	0	0	0	715
Small Landslide Projects	C3325	766	409	578	469	708	777	364	1,089	5,159
Strategic Asset Management Plan - DRN	C333507	83	40	134	107	24	22	27	20	456
SW Prescott/Admiral Landslide	C302353	611	485	1	294	6	0	0	0	1,396

*Amounts in thousands of dollars

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BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Landslide Mitigation & Special Programs			BCL/Program Code:							C335B
Water Reuse - Stormwater	C353308	50	50	29	24	0	0	0	0	153
Works Progress Administration Drains Study & Repair	C3315	656	250	301	239	354	368	224	164	2,556
Landslide Mitigation & Special Programs Total		6,909	5,420	6,028	6,000	5,413	5,169	6,337	4,910	46,186
Low Impact Development			BCL/Program Code:							C334B
3rd Ave. NW & NW 107th Street Natural System	C300329	5,028	69	94	0	0	0	0	0	5,191
Capital Planning – Low Impact Development	C307017	0	0	321	91	79	74	90	66	719
Capitol Hill Water Quality Project	C306001	0	0	1,653	3,033	79	4	4	3	4,776
Creek Flow Control Implementation	C310001	0	0	0	0	0	2,207	2,686	1,973	6,866
High Point Drainage System	C301303	2,431	1,100	1,376	256	59	55	67	0	5,344
Natural Drainage System Improvements	C333206	82	396	169	501	413	386	895	658	3,500
Pinehurst Natural Drainage System	C333202	3,356	1,287	30	15	0	0	0	0	4,687
Venema Creek Natural Drainage System	C302317	486	405	309	363	184	795	45	33	2,619
Watershed Base Creek Flow Control	C353310	35	150	71	112	472	147	179	0	1,166
Low Impact Development Total		11,418	3,407	4,022	4,370	1,285	3,668	3,966	2,732	34,869

*Amounts in thousands of dollars

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BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Protection of Beneficial Uses						BCL/Program Code:				C333B
10718 35th NE Sediment Pond	C302305	626	222	919	83	4	4	0	0	1,858
Beer Sheva Habitat Improvement	C301319	150	50	23	40	28	7	9	7	313
Best Management Practice Program	C3313	605	375	595	920	786	2,391	4,477	3,288	13,437
Bitter Lake Dredging	C306002	0	0	6	5	4	18	367	0	400
Bitter Lake/N 137th Stormwater	C301322	14	0	26	21	315	1,273	188	36	1,872
Capital Planning - Protection of Beneficial Uses	C343301	308	70	285	87	20	18	9	7	803
Channel Widening Project	C308002	0	0	0	18	79	74	45	33	248
Citywide Source Control	C363501	0	100	103	0	0	0	0	0	203
Creek Sediment Control Program	C353303	1	25	11	84	20	18	9	0	168
Creeks Habitat Complexity Program	C353302	39	75	97	78	64	61	76	57	548
Creeks Vegetation Program	C353304	129	150	185	152	127	122	152	113	1,131
Fish Passage Program	C353305	31	40	7	6	110	88	112	82	477
Greenwood Water Quality Best Management Practice	C353306	0	80	0	0	786	74	45	0	985
Neighborhood Drainage/Climate Bonus Matching Grant Project	C307020	0	0	150	150	150	150	150	150	900
Piper's Creek - Detention	C399326	308	24	0	0	0	0	0	0	332
Seattle Housing Authority Integrated Drainage Plan	C363301	0	300	356	429	488	191	0	0	1,764
Stormwater Mitigation Partnership Program	C353309	1	50	50	40	39	37	0	0	218
Taylor Creek Culverts Phase 2	C399315	724	315	221	11	20	18	0	0	1,309
Thornton Creek Water Quality Channel Project	C343306	1,269	5,980	1,684	1,684	0	0	0	0	10,617

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BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Protection of Beneficial Uses			BCL/Program Code:							C333B
Protection of Beneficial Uses Total		4,206	7,856	4,717	3,808	3,039	4,545	5,639	3,773	37,582
Sediments			BCL/Program Code:							C350B
Sediment Remediation - DRN	C3501	2,551	2,816	3,293	2,699	576	176	91	64	12,266
Sediment Remediation - WW	C3502	2,877	985	1,374	1,041	223	118	60	43	6,720
Sediments Total		5,428	3,801	4,667	3,740	799	294	151	107	18,986

*Amounts in thousands of dollars

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BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Shared Cost Projects						BCL/Program Code:				C410B
Climate Protection - DWF	C407S01-DWF	0	0	77	82	0	0	0	0	159
Demand Management	C407019	0	0	600	597	538	552	566	580	3,433
Heavy Equipment Purchases - DWF	C4116-DWF	1,919	867	1,330	1,141	1,028	476	407	887	8,056
I-5 Pavement Reconstruction - DWF	C407022-DWF	0	0	132	135	135	138	141	145	825
Integrated Control Monitoring Program - DWF	C4108-DWF	976	1,110	1,446	1,360	1,830	2,290	2,319	2,348	13,680
Meter Replacement - DWF	C4101-DWF	1,343	597	530	534	517	530	543	557	5,151
Operational Facility - Construction - DWF	C4106-DWF	1,518	1,050	1,458	679	894	916	875	896	8,286
Operational Facility - Other - DWF	C4115-DWF	0	373	626	74	75	77	0	0	1,225
Operations Control Center - DWF	C4105-DWF	294	1,054	640	123	474	46	0	0	2,631
Security Improvements - DWF	C4113-DWF	0	0	615	0	0	0	0	0	615
Sound Transit - DWF	C4104-DWF	1,303	768	435	130	29	0	0	0	2,665
Sound Transit – University Link - DWF	C4110-DWF	0	0	95	115	89	0	0	0	298
Sound Transit Integrated Drainage Plan	C405001	6	300	242	348	495	491	0	0	1,882
South Lake Union - DWF	C4114-DWF	131	1,130	137	133	16	0	0	0	1,547
Spokane Street Viaduct - DWF	C407023-DWF	0	0	132	135	135	138	141	0	681
SR-520 Bridge Replacement - DWF	C407021-DWF	0	0	132	135	135	138	141	145	825
Utility Relocation due to Alaskan Way Viaduct and Seawall Replacement - DWF	C4102-DWF	1,255	1,702	3,347	25,876	48,041	26,711	4,950	5,392	117,274
Shared Cost Projects Total		8,745	8,951	11,973	31,596	54,431	32,503	10,085	10,949	169,233

*Amounts in thousands of dollars

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Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Stormwater & Flood Control						BCL/Program Code:				C332B
20th Avenue NE Local Drainage	C301317	215	5	5	0	0	0	0	0	225
4th Avenue S/S Trenton Storm Drain	C353202	298	750	793	2,502	975	728	219	33	6,299
Capital Planning - Flood Control & Local Drainage	C343201	532	320	414	178	254	305	0	0	2,003
Comprehensive Drainage Plan Implementation	C307018	0	0	6	485	2,289	4,351	0	0	7,132
Georgetown Flume Drainage Improvements	C307019	0	0	209	207	0	0	0	0	416
Jackson Park Detention - Phase 2	C399305	10,599	110	123	99	85	0	0	0	11,016
Localized Flood Control Program	C3312	452	1,440	250	1,001	1,040	837	895	658	6,574
Lower Densmore Drainage Improvement	C353205	152	225	6	5	0	0	0	0	388
Madison Valley Long Term Solution	C307014	0	0	1,032	2,158	3,932	1,471	90	66	8,749
Meadowbrook Outfall Rehabilitation	C353206	207	231	1,243	29	0	0	0	0	1,710
MLK Way/Norfolk Street Storm Improvement	C333205	613	183	285	284	4	4	4	0	1,377
N 125th & Aurora N Storm Drain	C302313	769	575	403	990	1,636	1,221	0	0	5,594
Stormwater & Flood Control Total		13,837	3,839	4,768	7,939	10,216	8,918	1,209	756	51,481

*Amounts in thousands of dollars

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Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Wastewater Conveyance						BCL/Program Code:				C320B
Design Standards & Guidelines - WW	C305201	26	326	59	346	0	0	0	0	756
Drainage & Wastewater Partnership Program - WW	C3203	0	0	50	50	197	184	224	164	869
GIS System Enhancements- WW	C307016	0	0	103	39	0	0	0	0	142
Intergovernmental Shares - WW	C3205	249	250	300	300	0	0	0	0	1,099
Lakewood Raincatcher Pilot Project	C305202	78	628	851	103	50	37	45	33	1,825
Minor Facility Upgrades - Rehabilitation	C3AA402	243	76	96	82	75	74	94	72	812
No Dig Pipe & Maintenance Rehabilitation	C3AA403	10,068	663	2,346	2,160	1,793	1,477	2,248	1,651	22,407
Other Agency Opportunity - WW	C3204	0	200	23	21	339	325	406	299	1,612
Outfall Rehabilitation Program - WW	C305203	0	10	0	0	118	110	224	164	627
Point Sewer Pipe Rehabilitation - Contract	C303401	1,740	445	1,078	1,156	786	736	895	658	7,494
Point Sewer Pipe Rehabilitation - Crews	C303402	8,438	3,200	2,410	2,149	2,957	2,850	3,572	2,702	28,277
Sanitary Sewer Overflow Capacity	C302205	330	250	243	206	812	779	973	715	4,308
Sewage System Modeling	C3AA206	764	225	40	40	85	81	101	74	1,410
Sewer Emergency Rehabilitation	C3AA404	3,201	500	677	560	472	478	582	427	6,898
Sewer Full Line Replacements	C3202	794	416	0	320	281	276	353	267	2,707
Small Sewer Improvements	C303299	234	160	175	145	144	138	173	127	1,296
Strategic Asset Management Plan - WW	C303204	148	100	34	28	0	0	0	0	310

**Amounts in thousands of dollars*

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Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Wastewater Conveyance						BCL/Program Code:				C320B
Wastewater Rehabilitation Evaluation	C3AA401	1,486	200	258	231	216	221	291	230	3,133
Water Reuse - Wastewater	C301203	392	14	97	37	0	0	0	0	540
Wastewater Conveyance Total		28,190	7,663	8,841	7,971	8,324	7,766	10,180	7,585	86,521
Department Total		85,848	43,665	52,012	70,731	92,622	74,416	50,076	49,948	519,318

*Amounts in thousands of dollars

2007-2012 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Fund Summary

Fund Name	LTD	2006	2007	2008	2009	2010	2011	2012	Total
SPU Drainage and Wastewater Fund	85,848	43,665	52,012	70,731	92,622	74,416	50,076	49,948	519,318
Department Total	85,848	43,665	52,012	70,731	92,622	74,416	50,076	49,948	519,318

Note: Additional allocations for the SPU Drainage and Wastewater Fund are shown in the SPU - Technology section of this document.

**Amounts in thousands of dollars*

2007-2012 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

10718 35th NE Sediment Pond

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: Improved Facility

Start Date: 3rd Quarter 2002

Project ID: C302305

End Date: 4th Quarter 2010

Location: 10718 35th Ave. NE

Neighborhood Plan: North District/Lake City

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Not in an Urban Village

This project constructs a new, efficient off-line sediment collection facility and other site improvements upstream of the Meadowbrook Pond detention facility. Meadowbrook currently has no formal maintenance access; there are no roadways or staging areas for required dredging activities, and access to trashracks is poor. The new facilities provide improved maintenance access, water quality, and habitat. The confidence level of the current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	626	222	919	83	4	4	0	0	1,858
Project Total:	626	222	919	83	4	4	0	0	1,858
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	626	222	919	83	4	4	0	0	1,858
Appropriations Total*	626	222	919	83	4	4	0	0	1,858
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		650	919	83	4	4	0	0	1,660

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

SPU - Drainage & Wastewater

1500 - 2600 Aurora N Landslide

BCL/Program Name: Landslide Mitigation & Special Programs	BCL/Program Code: C335B
Project Type: New Facility	Start Date: 1st Quarter 2006
Project ID: C363401	End Date: 4th Quarter 2011

Location: Aurora Ave. N

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Magnolia/Queen Anne

Urban Village: Not in an Urban Village

Three combined sewer lines traverse a steep slope down to Aurora Ave. N at the northeast corner of Queen Anne Hill. Preliminary analysis determined these three lines were at risk of damage due to landslides. This project installs the combined sewer lines deeper in the hillside to protect them from landslide damage, possibly using directional drilling techniques. The project also improves the method for collecting stormwater from the nearby streets to reduce the risk of landslides. This project is in a preliminary phase of development and cost estimates will be revised over time.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	31	1	57	47	155	895	0	1,186
Project Total:	0	31	1	57	47	155	895	0	1,186
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	31	1	57	47	155	895	0	1,186
Appropriations Total*	0	31	1	57	47	155	895	0	1,186
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

20th Avenue NE Local Drainage

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: Improved Facility

Start Date: 3rd Quarter 2001

Project ID: C301317

End Date: 4th Quarter 2007

Location: 20th Ave. NE/NE 137th St.

Neighborhood Plan: North District/Lake City

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Not in an Urban Village

This project develops a plan and makes improvements to resolve safety concerns related to a ditch along 20th Ave. NE. The ditch is deep and has steep side slopes, and the high-velocity flows inside it have undercut the banks near residential properties. SPU provides culverts and fill to allow formal bus stops to be constructed by King County Metro in three locations along 20th Ave. NE, to allow safe loading and off-loading of passengers. Spot improvements are also provided in several locations to repair undercut banks eroded by stormwater. All improvements have been completed. Remaining work includes landscape maintenance and repairs through 2007. SPU's Asset Management Committee has approved the project and the confidence level of the cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	215	5	5	0	0	0	0	0	225
Project Total:	215	5	5	0	0	0	0	0	225
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	215	5	5	0	0	0	0	0	225
Appropriations Total*	215	5	5	0	0	0	0	0	225
O & M Costs (Savings)			0	3	3	3	3	0	12
Spending Plan		5	5	0	0	0	0	0	10

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SPU - Drainage & Wastewater

3rd Ave. NW & NW 107th Street Natural System

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: Improved Facility

Start Date: 4th Quarter 2000

Project ID: C300329

End Date: 4th Quarter 2007

Location: NW 107th St./3rd Ave. NW

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This project addresses stormwater management using a "natural system" approach that promotes sustainable drainage design. The project minimizes the use of standard engineered stormwater infrastructure, using the unimproved right-of-way as a starting point for design. The project includes construction of an engineered system of stepped pools to detain runoff, filter pollutants, and allow maximum opportunity for infiltration; construction of a sidewalk on the south side of 3rd Ave. NW and NW 107th to provide safe pedestrian access to a nearby elementary school; creation of natural drainage system features within the right-of-way; and the use of vegetation as a stormwater management element and for aesthetic appeal. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	5,028	69	94	0	0	0	0	0	5,191
Project Total:	5,028	69	94	0	0	0	0	0	5,191
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	5,028	69	94	0	0	0	0	0	5,191
Appropriations Total*	5,028	69	94	0	0	0	0	0	5,191
O & M Costs (Savings)			0	7	7	7	7	7	35
Spending Plan		82	94	0	0	0	0	0	176

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

SPU - Drainage & Wastewater

47 SW & SW Maplewood Place Landslide

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: New Facility **Start Date:** 1st Quarter 2006
Project ID: C363402 **End Date:** 4th Quarter 2011

Location: 47th Ave. SW

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Not in an Urban Village

This project, which was identified during the Comprehensive Drainage Planning process, evaluates an existing storm drain system that traverses a steep slope between 47th Ave. SW and SW Maplewood Pl., and street runoff that is currently routed through a private drainage system. The project constructs measures to stabilize the slope where the storm drain is located, while rerouting street runoff from a private drainage system and outfall to an existing SPU storm drain system. This project is in a preliminary phase of development and cost estimates will be revised over time.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	50	1	37	81	77	479	0	726
Project Total:	0	50	1	37	81	77	479	0	726
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	50	1	37	81	77	479	0	726
Appropriations Total*	0	50	1	37	81	77	479	0	726
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

4th Avenue S/S Trenton Storm Drain

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353202

End Date: 4th Quarter 2012

Location: 4th Ave S & S Trenton St. / 7th Ave S & S Director St.

Neighborhood Plan: South Park

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: South Park

This project installs approximately 1,400 linear feet of conveyance improvements along S Trenton St., 3rd Ave. S and 4th Ave. S, and approximately 2,700 linear feet of conveyance improvements along S Director St. and 7th Ave. S, to resolve a number of documented flooding problems in these areas. The project reduces flows to the combined sewer system in the area by rerouting the drainage from the combined and sanitary system to an existing storm drain on 5th Ave S. A pump station will be installed as a separate construction contract to convey storm water runoff to the Duwamish River at high tide events. The pump station addresses flooding in the primarily-industrial neighborhood south of the Duwamish River. This project has been approved by SPU's Asset Management Committee. The confidence level in the current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	298	750	793	2,502	975	728	219	33	6,299
Project Total:	298	750	793	2,502	975	728	219	33	6,299
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	298	750	793	2,502	975	728	219	33	6,299
Appropriations Total*	298	750	793	2,502	975	728	219	33	6,299
O & M Costs (Savings)			0	0	5	5	5	5	20

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

SPU - Drainage & Wastewater

Aquatic Habitat Matching Grant Project

BCL/Program Name: Landslide Mitigation & Special Programs	BCL/Program Code: C335B
Project Type: New Facility	Start Date: 1st Quarter 2005
Project ID: C353301	End Date: Ongoing

Location: Various

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This matching grant project funds community-based habitat improvements that leverage SPU's drainage-related habitat efforts with a dollar-for-dollar contribution of volunteer labor and donated materials and services. This project was added to the 2005-2010 Adopted CIP by Council action. Projects must meet legal requirements for use of DWF Funds. Resolution 30719 describes grant application procedures and eligible projects, which may include removal of fish passage blockages; removal of non-native invasive plant species from aquatic habitats; restoration of native plant species, riparian vegetation and natural aquatic habitat features and complexity; removal of bank armoring; and re-establishment of creek connectivity. A seven-member Aquatic Habitat Matching Grant Review Board was established in 2005 and developed the grant guidelines for implementation.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1	300	308	315	323	331	339	348	2,265
Project Total:	1	300	308	315	323	331	339	348	2,265
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1	300	308	315	323	331	339	348	2,265
Appropriations Total*	1	300	308	315	323	331	339	348	2,265
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Ballard Combined Sewer Overflow

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Facility	Start Date: 1st Quarter 2008
Project ID: C303101	End Date: 1st Quarter 2020

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Ballard

Urban Village: Not in an Urban Village

This project constructs Combined Sewer Overflow (CSO) reduction facilities in the Ballard area, at Basins 150/151 and 152, which discharge to Salmon Bay. Major work includes flow monitoring, system modeling, facility planning, preliminary engineering, design, permits, land acquisition (if necessary), and construction. The project was proposed in the 1988 CSO Control Plan as a joint project with King County. The project began in 2004 but is on hold until 2008; the project budget and schedule have been revised to account for project development and potential coordination with King County. Other work performed under SPU's CSO Facility Retrofit project (C302102) may reduce the size of the necessary facilities in this basin. This project is in a preliminary phase of development and cost estimates will be revised over time. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	285	211	164	478	593	1,730
Project Total:	0	0	0	285	211	164	478	593	1,730
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	0	285	211	164	478	593	1,730
Appropriations Total*	0	0	0	285	211	164	478	593	1,730
O & M Costs (Savings)			0	0	0	0	0	0	0

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SPU - Drainage & Wastewater

Beer Sheva Habitat Improvement

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 4th Quarter 2001

Project ID: C301319

End Date: 4th Quarter 2012

Location: Seward Park Ave. S/S Henderson St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: Not in an Urban Village

This project makes several improvements to create a high-quality fish refuge and rearing habitat at the mouth of Mapes Creek, and a natural creek channel in the lower portion of the creek. The project includes creating a natural creek mouth by placing the creek in an open, meandering creek channel in Beer Sheva Park, and relocating its discharge point into Lake Washington at the edge of the shoreline rather than offshore in deeper water. The middle portion of the creek is re-piped to separate its flow from stormwater and Combined Sewer Overflow discharges, and to improve downstream water quality. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	150	50	23	40	28	7	9	7	313
Project Total:	150	50	23	40	28	7	9	7	313
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	150	50	23	40	28	7	9	7	313
Appropriations Total*	150	50	23	40	28	7	9	7	313
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		60	23	40	28	7	9	7	173

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SPU - Drainage & Wastewater

Best Management Practice Program

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 2nd Quarter 2000

Project ID: C3313

End Date: 4th Quarter 2012

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program identifies, develops, and implements high-priority water quality improvement projects incorporating Best Management Practices (BMP) as identified by ongoing water quality basin investigations in the Norfolk, South Park, and Densmore drainage basins. In addition, efforts include work in the Lake Washington Drainage basin in order to address SPU's Seattle Housing Authority Integrated Drainage Plan water quality BMP requirements. These projects are designed to improve the quality of stormwater runoff discharged to nearby receiving water bodies (e.g. streams or lakes) from City-owned storm drains. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	605	375	595	920	786	2,391	4,477	3,288	13,437
Project Total:	605	375	595	920	786	2,391	4,477	3,288	13,437
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	605	375	595	920	786	2,391	4,477	3,288	13,437
Appropriations Total*	605	375	595	920	786	2,391	4,477	3,288	13,437
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	595	920	786	2,391	4,477	3,288	12,457

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2007-2012 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Bitter Lake Dredging

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: Rehabilitation or Restoration

Start Date: 1st Quarter 2006

Project ID: C306002

End Date: 4th Quarter 2011

Location: N 137th St.

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This project dredges the north end of Bitter Lake, near the stormwater outfall from N 138th St. The project addresses more extensive sedimentation than is possible with existing operation and maintenance methods. The project investigates access routes, new technology, or access via the lake for those areas that are beyond the reach of the current dredging process. For the long term, another Drainage & Wastewater CIP project, Bitter Lake/N 137th St. Stormwater (C301322), reduces sedimentation and improves stormwater conveyance so that this Bitter Lake dredging project is a one-time event. The confidence level of the cost estimate is medium. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. This project was included in the 2006-2011 Adopted CIP as C3NW033-002.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	6	5	4	18	367	0	400
Project Total:	0	0	6	5	4	18	367	0	400
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	6	5	4	18	367	0	400
Appropriations Total*	0	0	6	5	4	18	367	0	400
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		75	6	5	4	18	367	0	475

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SPU - Drainage & Wastewater

Bitter Lake/N 137th Stormwater

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 2nd Quarter 2001

Project ID: C301322

End Date: 4th Quarter 2012

Location: Bitter Lake Drainage Basin N 145th St./N 145th St.

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Bitter Lake Village

This project funds the design and construction of a stormwater treatment project to improve the quality of stormwater discharging to Bitter Lake and to reduce the frequency of required dredging offshore of the Greenwood Ave. N storm drain outfall in the lake. A preliminary engineering report, completed by a Seattle University civil engineering senior design team in 2000, evaluated options for treating runoff from the Greenwood Ave. N storm drain. Treatment options included wet vaults and media filters with swirl concentrators for pretreatment. Additional work may include evaluation of natural drainage system designs, updating the preliminary engineering analysis to determine the most cost-effective option, and constructing the selected project(s). This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	14	0	26	21	315	1,273	188	36	1,872
Project Total:	14	0	26	21	315	1,273	188	36	1,872
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	14	0	26	21	315	1,273	188	36	1,872
Appropriations Total*	14	0	26	21	315	1,273	188	36	1,872
O & M Costs (Savings)			2	2	2	2	2	0	10
Spending Plan		196	26	21	315	1,273	188	36	2,054

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

SPU - Drainage & Wastewater

Capital Planning - CSO Plan Implementation

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Facility	Start Date: 1st Quarter 2005
Project ID: C305101	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project supports implementation of the 2001 Combined Sewer Overflow (CSO) Reduction Plan Update. It conducts project studies and engineering to provide for compliance with the City's National Pollutant Discharge Elimination System permit, supports Asset Management Committee presentations for projects, and studies and develops small capital projects necessary to implement the plan. This project is in a preliminary phase of development and cost estimates will be revised over time. The SPU Asset Management Committee reviewed and approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	190	150	385	142	197	184	224	164	1,636
Project Total:	190	150	385	142	197	184	224	164	1,636
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	190	150	385	142	197	184	224	164	1,636
Appropriations Total*	190	150	385	142	197	184	224	164	1,636
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		235	385	142	197	184	224	164	1,531

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

SPU - Drainage & Wastewater

Capital Planning - Flood Control & Local Drainage

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2004

Project ID: C343201

End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project supports development of Flood Control and Local Drainage program projects. Work includes evaluation of potential projects (primarily those identified in the Comprehensive Drainage Plan), including investigation of reported drainage problems. The evaluation includes field verification and technical analysis to obtain information on benefits and level of service. A project proposal, including cost-benefit analysis, is reviewed and approved by SPU's Capital Planning Committee. Staff then develop a Project Development Plan, including documentation and budget input, for approval by SPU's Asset Management Committee. This is an ongoing project and estimates for the out years will be revised over time.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	532	320	414	178	254	305	0	0	2,003
Project Total:	532	320	414	178	254	305	0	0	2,003
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	532	320	414	178	254	305	0	0	2,003
Appropriations Total*	532	320	414	178	254	305	0	0	2,003
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		778	414	178	254	305	0	0	1,929

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

SPU - Drainage & Wastewater

Capital Planning – Low Impact Development

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 1st Quarter 2007

Project ID: C307017

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project supports the creation of Low Impact Development program projects. Work includes evaluation of potential projects including investigation of Natural Drainage System facilities or other stormwater treatment/detention strategies to solve problems identified within the stormwater line of business. The evaluation includes field verification and technical analysis to obtain information on benefits and level of service. A project proposal, including cost-benefit analysis, is reviewed and approved by SPU's Capital Planning Committee. Staff then develops a Project Development Plan, including documentation and budget input, for approval by SPU's Asset Management Committee. This is an ongoing project and cost estimates for the out years will be revised over time.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	321	91	79	74	90	66	719
Project Total:	0	0	321	91	79	74	90	66	719
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	321	91	79	74	90	66	719
Appropriations Total*	0	0	321	91	79	74	90	66	719
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Capital Planning - Protection of Beneficial Uses

BCL/Program Name: Protection of Beneficial Uses	BCL/Program Code: C333B
Project Type: New Facility	Start Date: 1st Quarter 2004
Project ID: C343301	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project supports development of Protection of Beneficial Uses program projects. Work includes evaluation of potential projects (primarily those identified in the Comprehensive Drainage Plan) for water quality and habitat benefits. The evaluation of potential projects includes field verification and technical analysis. Analysis to explore solutions, including cost-benefit information, is reviewed and approved by SPU's Capital Planning Committee. A Project Development Plan, including documentation and budget input, is then developed by SPU staff for approval by SPU's Asset Management Committee. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environment. This is an ongoing project and estimates for the out years will be revised over time.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	308	70	285	87	20	18	9	7	803
Project Total:	308	70	285	87	20	18	9	7	803
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	308	70	285	87	20	18	9	7	803
Appropriations Total*	308	70	285	87	20	18	9	7	803
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		25	285	87	20	18	9	7	450

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

SPU - Drainage & Wastewater

Capital Planning - Public Asset Protection

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: New Facility **Start Date:** 1st Quarter 2004
Project ID: C343401 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project supports development of Public Asset Protection program projects. Work includes evaluation of potential projects (primarily those identified in the Comprehensive Drainage Plan), including investigation of reported drainage problems. The evaluation includes field verification and technical analysis to obtain information on benefits and levels of service. A project proposal, including cost-benefit analysis, is reviewed and approved by SPU's Capital Planning Committee. Staff then develops a Project Development Plan, including documentation and budget input, for approval by SPU's Asset Management Committee. This is an ongoing project and cost estimates will be revised over time.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	167	100	463	136	288	184	87	309	1,734
Project Total:	167	100	463	136	288	184	87	309	1,734
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	167	100	463	136	288	184	87	309	1,734
Appropriations Total*	167	100	463	136	288	184	87	309	1,734
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Capital Planning Pump Stations

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Investment	Start Date: 1st Quarter 2007
Project ID: C307011	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project supports development of Pump Station program projects. Work includes evaluation of potential improvement, optimization, and rehabilitation projects. Analysis to explore solutions, including cost-benefit information, is reviewed and approved by SPU's Capital Planning Committee. A Project Development Plan, including documentation and budget input, is then developed by SPU staff for approval by SPU's Asset Management Committee. This project is in a preliminary phase of development and cost estimates will be revised over time.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	267	42	79	74	90	66	617
Project Total:	0	0	267	42	79	74	90	66	617
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	267	42	79	74	90	66	617
Appropriations Total*	0	0	267	42	79	74	90	66	617
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Capitol Hill Water Quality Project

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 1st Quarter 2006

Project ID: C306001

End Date: 4th Quarter 2012

Location: Yale Ave N/ Pontius Ave N/Thomas St/Republican St

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Lake Union

Urban Village: South Lake Union

This project evaluates and constructs water quality treatment facilities for the Minor Avenue drainage basin, which includes much of First Hill and Capitol Hill. The basin discharges to southern Lake Union via the Minor Avenue outfall. This project will evaluate the opportunities to construct water quality treatment facilities sequenced with redevelopment opportunities in the South Lake Union area, between I-5 and Pontius Ave. The project will evaluate use of biofiltration swales incorporated into the right-of-way redevelopment as well as traditional treatment media vaults. This project is in a preliminary phase of development and cost estimates will be revised during preliminary engineering. SPU's Asset Management Committee will review for cost-benefit impacts and to ensure the appropriate use of drainage funds.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	1,653	3,033	79	4	4	3	4,776
Project Total:	0	0	1,653	3,033	79	4	4	3	4,776
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	1,653	3,033	79	4	4	3	4,776
Appropriations Total*	0	0	1,653	3,033	79	4	4	3	4,776
O & M Costs (Savings)			0	0	0	0	0	8	8
Spending Plan		419	1,653	3,033	79	4	4	3	5,195

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

SPU - Drainage & Wastewater

Channel Widening Project

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2008

Project ID: C308002

End Date: 4th Quarter 2012

Location: Citywide

Neighborhood Plan: Delridge

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project evaluates channel widening on creeks to provide aquatic resource benefits. Higher stormwater flows and channel confinements have resulted in adverse impacts to stream aquatic biota and habitat. This project addresses these impacts by making improvements to dissipate flow energy, reduce excessive scour of creek banks and floors, and create aquatic biota refugia. The project's benefits include improving stream ecosystems and protecting property from flooding. This project is in a preliminary phase of development and cost estimates will be revised over time. Proposed channel widening projects are evaluated by SPU's Asset Management Committee for cost-benefit impacts and to ensure the appropriate use of the drainage funds. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. This project was included in the 2006-2011 Adopted CIP as C3NW033-014.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	18	79	74	45	33	248
Project Total:	0	0	0	18	79	74	45	33	248
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	0	18	79	74	45	33	248
Appropriations Total*	0	0	0	18	79	74	45	33	248
O & M Costs (Savings)			0	0	5	5	5	0	15

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

SPU - Drainage & Wastewater

Citywide Source Control

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2006

Project ID: C363501

End Date: 4th Quarter 2007

Location:

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project inspects City facilities to observe the implementation of the City stormwater manual. A consultant will identify potential source control problems and possible corrective actions that City departments can undertake to improve water quality and stormwater management. The project's first phase developed criteria to prioritize City facilities, which considered the number of high-pollution-generating activities occurring on the site and the sensitivity of the receiving water bodies. Thirty-four priority facilities were identified and site inspections were conducted on 15 of those sites. Phase two will begin in 2007 and inspect approximately 100 additional facilities. This assessment is funded through reimbursements from the Cumulative Reserve Fund to the Drainage and Wastewater Fund. The title for this project in the 2006-2011 CIP was City Facilities Drainage Assessment.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	100	103	0	0	0	0	0	203
Project Total:	0	100	103	0	0	0	0	0	203
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	100	103	0	0	0	0	0	203
Appropriations Total*	0	100	103	0	0	0	0	0	203
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	103	0	0	0	0	0	103

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

SPU - Drainage & Wastewater

Climate Protection - DWF

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C407S01-DWF

End Date: 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project researches the impact of climate change on the drainage and wastewater system, and identifies adaptations or additional system resiliency that may be required. The effort is part of the Mayor's Environmental Action Agenda, which includes a City commitment to meet or beat Kyoto greenhouse gas emission targets. The Office of Sustainability & Environment leads the Citywide effort.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	77	82	0	0	0	0	159
Project Total:	0	0	77	82	0	0	0	0	159
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	77	82	0	0	0	0	159
Appropriations Total*	0	0	77	82	0	0	0	0	159
O & M Costs (Savings)			20	0	0	0	0	0	20

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SPU - Drainage & Wastewater

Combined Sewer Overflow Facility Retrofit

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2002
Project ID: C302102	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

To optimize system operation and storage, this project retrofits, upgrades, and modifies existing Combined Sewer Overflow (CSO) reduction facilities in priority CSO basins. Projects may include weir modifications, construction of system modifications to remove hydraulic constraints or improve system hydraulics, and replacement of tide gates or flow restrictor devices. The project was evaluated during the development of the 2001 CSO Reduction Plan Amendment and provides a cost-effective approach to complying with CSO regulations. SPU's Asset Management Committee has approved the adoption of a formal retrofit program which will design and construct several small retrofit projects each year. The certainty of the cost estimate is a medium confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	3,120	554	567	954	786	736	895	658	8,270
Project Total:	3,120	554	567	954	786	736	895	658	8,270
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	3,120	554	567	954	786	736	895	658	8,270
Appropriations Total*	3,120	554	567	954	786	736	895	658	8,270
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,000	567	954	786	736	895	658	5,596

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

SPU - Drainage & Wastewater

Combined Sewer Overflow Operations & Maintenance Plan

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Investment	Start Date: 1st Quarter 2007
Project ID: C307005	End Date: 4th Quarter 2011

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project reviews and updates the Operations & Maintenance (O&M) Plan for combined sewer overflows, per requirement of the National Pollutant Discharge Elimination System (NPDES) Permit. The plan may include detailed information on standard operations and maintenance procedures as well as manufacturer-recommended O&M procedures. SPU's Asset Management Committee will review and approve the project in 2007. The certainty of the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	411	328	275	368	448	0	1,830
Project Total:	0	0	411	328	275	368	448	0	1,830
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	411	328	275	368	448	0	1,830
Appropriations Total*	0	0	411	328	275	368	448	0	1,830
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Combined Sewer Overflow Optimization Study

BCL/Program Name: Control Structures **BCL/Program Code:** C310B
Project Type: New Investment **Start Date:** 1st Quarter 2007
Project ID: C307009 **End Date:** 4th Quarter 2009

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project studies the optimal methods and timing for operating and maintaining passive control structures. The study may include evaluation of alternative technologies for cleaning or assessment of infrastructure. SPU's Asset Management Committee will review and approve the project in 2007. The confidence of the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	0	39	0	0	0	39
Project Total:	0	0	0	0	39	0	0	0	39
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	0	0	39	0	0	0	39
Appropriations Total*	0	0	0	0	39	0	0	0	39
O & M Costs (Savings)			0	0	0	0	0	0	0

Combined Sewer Overflow Plan Update

BCL/Program Name: Control Structures **BCL/Program Code:** C310B
Project Type: Improved Facility **Start Date:** 1st Quarter 1999
Project ID: C3AA103 **End Date:** 4th Quarter 2011

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

Combined Sewer Overflow (CSO) reduction plans are required by the Department of Ecology. This project funds preparation of the next plan update, Environmental Impact Statement, and public participation activities. The project also prepares feasibility studies to identify potential opportunities for coordination with King County. The SPU Asset Management Committee approved the plan in 2005. The certainty of the cost estimate is a medium confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,863	550	703	349	79	74	45	0	3,662
Project Total:	1,863	550	703	349	79	74	45	0	3,662
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,863	550	703	349	79	74	45	0	3,662
Appropriations Total*	1,863	550	703	349	79	74	45	0	3,662
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	703	349	79	74	45	0	1,249

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SPU - Drainage & Wastewater

Combined Sewer Overflow Reporting/Public Notice

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Investment	Start Date: 1st Quarter 2007
Project ID: C307008	End Date: 4th Quarter 2008

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project develops a Public Notification Feasibility Study, per requirement of the National Pollutant Discharge Elimination System (NPDES) Permit. The study may survey methods for providing more immediate information to the public regarding combined sewer overflow events, including a possible web-based notification system. The confidence in the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	115	45	0	0	0	0	161
Project Total:	0	0	115	45	0	0	0	0	161
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	115	45	0	0	0	0	161
Appropriations Total*	0	0	115	45	0	0	0	0	161
O & M Costs (Savings)			0	0	0	0	0	0	0

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SPU - Drainage & Wastewater

Combined Sewer Overflow Structure Configuration Management

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2006
Project ID: C306101	End Date: 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project surveys the condition and configuration of the existing CSO overflow structures. It identifies limitations or deficiencies with the existing structures and makes recommendations for replacement or rehabilitation of the structure. SPU's Asset Management Committee will review and approve the project in 2007. The confidence in the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	100	116	49	0	0	0	0	265
Project Total:	0	100	116	49	0	0	0	0	265
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	100	116	49	0	0	0	0	265
Appropriations Total*	0	100	116	49	0	0	0	0	265
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Combined Sewer Overflow Supplemental Characterization

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Investment	Start Date: 1st Quarter 2007
Project ID: C307006	End Date: 4th Quarter 2008

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project develops a Combined Sewer Overflow (CSO) Supplemental Characterization Sampling and Analysis Plan, per requirement of the National Pollutant Discharge Elimination System (NPDES) Permit. The plan will include selection of sampling sites, protocols, sampling, and analysis of CSO flows. SPU's Asset Management Committee will review and approve the project in 2007. The confidence in the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	80	88	0	0	0	0	168
Project Total:	0	0	80	88	0	0	0	0	168
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	80	88	0	0	0	0	168
Appropriations Total*	0	0	80	88	0	0	0	0	168
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Comprehensive Drainage Plan Implementation

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2007

Project ID: C307018

End Date: Ongoing

Location: Various

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project funds work to be done in the outer years of the current six-year CIP to implement drainage improvements identified in the 2004 Comprehensive Drainage Plan (CDP) Update. Project development work done as part of the Capital Planning – Flood Control and Local Drainage project establishes priorities and schedules for these projects. The specific projects to be implemented in 2007 and beyond are identified in later CIPs after the initial project development work is done. The funding level is identified in advance to provide information about projected spending levels required to meet the goals of the CDP. This project is in a preliminary phase of development and cost estimates will be revised over time, including for years 2011-2012. This project was included in the 2006-2011 Adopted CIP as C3NW032-008.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	6	485	2,289	4,351	0	0	7,132
Project Total:	0	0	6	485	2,289	4,351	0	0	7,132
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	6	485	2,289	4,351	0	0	7,132
Appropriations Total*	0	0	6	485	2,289	4,351	0	0	7,132
O & M Costs (Savings)			0	13	40	100	100	0	253

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

SPU - Drainage & Wastewater

Creek Flow Control Implementation

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 1st Quarter 2010

Project ID: C310001

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Delridge

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project builds flow control projects in targeted Seattle creek areas. High stormwater flows have resulted in aquatic ecosystem degradation. The project's objectives include the reduction of stormwater discharge entering creeks, the reduction of associated habitat degradation, and the potential associated reduction of water quality pollutants. The project's benefits include improving creek ecosystems and potentially protecting property from flooding. Projects constructed are determined by the results of preliminary engineering. This project is in a preliminary phase of development and cost estimates will be revised over time. Specific proposed projects are evaluated by SPU's Asset Management Committee for cost-benefit impacts and to ensure the appropriate use of drainage funds. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. This project was included in the 2006-2011 Adopted CIP as C3NW033-014.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	0	0	2,207	2,686	1,973	6,866
Project Total:	0	0	0	0	0	2,207	2,686	1,973	6,866
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	0	0	0	2,207	2,686	1,973	6,866
Appropriations Total*	0	0	0	0	0	2,207	2,686	1,973	6,866
O & M Costs (Savings)			0	0	0	15	15	15	45

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

SPU - Drainage & Wastewater

Creek Sediment Control Program

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353303

End Date: 4th Quarter 2011

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project identifies and implements minor capital projects that address sediment control in urban creeks. The initial project focus is on roadway runoff that is inadequately managed from the roadway edge to the receiving creek, and small, discrete sections of creek located on public land with raw, eroded banks. In the medium term, SPU staff has identified more holistic approaches to controlling excessive fine sediments and a shortage of appropriate larger gravel. This project is in a preliminary phase of development and cost estimates will be revised over time.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1	25	11	84	20	18	9	0	168
Project Total:	1	25	11	84	20	18	9	0	168
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1	25	11	84	20	18	9	0	168
Appropriations Total*	1	25	11	84	20	18	9	0	168
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Creeks Habitat Complexity Program

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353302

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program addresses altered stream and shoreline habitat. The program increases in-stream habitat complexity and establishes conditions that result in increased pools, riffles, and fish refuge habitat, by adding large, woody debris or boulders to creeks and creek mouths. Different sites are designed and constructed each year, with an initial focus on land owned by the Seattle Department of Parks and Recreation (Parks). Individual projects are identified and prioritized based on expected habitat benefits and ease of implementation. The project results in costs to Parks to operate and maintain the habitat improvements, but these costs have not yet been determined. The SPU Asset Management Committee approved this project in 2005, and the confidence level of current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	39	75	97	78	64	61	76	57	548
Project Total:	39	75	97	78	64	61	76	57	548
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	39	75	97	78	64	61	76	57	548
Appropriations Total*	39	75	97	78	64	61	76	57	548
O & M Costs (Savings)			5	5	5	5	5	0	25
Spending Plan		275	97	78	64	61	76	57	709

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

SPU - Drainage & Wastewater

Creeks Vegetation Program

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353304

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Aurora Licton

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project establishes the first six years of a 20-year effort to protect and restore more than 300 acres of publicly-owned forest located along riparian corridors. This project removes invasive plants from selected sites each year, adds native trees and shrubs, and provides maintenance for the first three years. SPU is working in partnership with the Seattle Department of Parks and Recreation and the City's Office of Sustainability and Environment. Restoring the riparian forest helps ensure creeks have cooler water with more oxygen and creek banks remain stable. The project also reduces the amount of runoff reaching creeks during storm events. SPU's Asset Management Committee has approved the 2006 budget, and program re-evaluation occurs annually for years 2007-2011. The confidence level of current cost estimates is medium. This project supports both the Mayor's Green Seattle Initiative to reforest riparian areas along urban creeks, and the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environment.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	129	150	185	152	127	122	152	113	1,131
Project Total:	129	150	185	152	127	122	152	113	1,131
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	129	150	185	152	127	122	152	113	1,131
Appropriations Total*	129	150	185	152	127	122	152	113	1,131
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Demand Management

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: Improved Facility

Start Date: 1st Quarter 2007

Project ID: C407019

End Date: 4th Quarter 2012

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project funds a variety of small capital projects designed to reduce the amount of stormwater going into the wastewater system as part of an overall program to manage demand for wastewater capital facilities. This project has not been reviewed by SPU's Asset Management Committee and the confidence level in the current cost estimate is low. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	600	597	538	552	566	580	3,433
Project Total:	0	0	600	597	538	552	566	580	3,433
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	600	597	538	552	566	580	3,433
Appropriations Total*	0	0	600	597	538	552	566	580	3,433
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	600	597	538	552	566	580	3,433

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

SPU - Drainage & Wastewater

Design Standards & Guidelines - DRN

BCL/Program Name: Landslide Mitigation & Special Programs	BCL/Program Code: C335B
Project Type: New Investment	Start Date: 1st Quarter 2005
Project ID: C353501	End Date: 4th Quarter 2008

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program creates detailed design standards and guidelines for the development of various types of drainage facilities to streamline future design efforts, reduce costs, and increase the quality of future facilities. This program is conducted with staff from the SPU Engineering and Operations divisions. The project supports benchmarking efforts by SPU's Asset Management Committee and implementation of SPU's Strategic Business Plan. Confidence level in the cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	40	130	449	194	0	0	0	0	812
Project Total:	40	130	449	194	0	0	0	0	812
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	40	130	449	194	0	0	0	0	812
Appropriations Total*	40	130	449	194	0	0	0	0	812
O & M Costs (Savings)			100	100	100	100	100	100	600

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

SPU - Drainage & Wastewater

Design Standards & Guidelines - WW

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Investment

Start Date: 1st Quarter 2005

Project ID: C305201

End Date: 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program creates detailed design standards and guidelines for the development of various types of wastewater facilities to streamline future design efforts, reduce costs, and increase the quality of future facilities. This program is conducted with staff from the SPU Engineering and Operations divisions. The project supports benchmarking efforts by SPU's Asset Management Committee and implementation of SPU's Strategic Business Plan. Confidence level in the cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	26	326	59	346	0	0	0	0	756
Project Total:	26	326	59	346	0	0	0	0	756
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	26	326	59	346	0	0	0	0	756
Appropriations Total*	26	326	59	346	0	0	0	0	756
O & M Costs (Savings)			100	100	100	100	100	0	500

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

SPU - Drainage & Wastewater

Drainage & Wastewater Partnership Program - DRN

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: New Facility **Start Date:** 1st Quarter 2007
Project ID: C3335 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program will provide funding and technical assistance for Seattle drainage customers who install technologies or stormwater management systems that provide utility system benefits over and beyond regulatory compliance. 2007-2008 will be pilot years for the program, which is currently in a preliminary phase of development, and will focus on outreach to non-City customers. Cost estimates may be revised over time. By 2009, SPU anticipates that this project will replace the Intergovernmental Shares - DRN program (C3355) and be open to projects by City and non-City customers.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	350	750	1,573	1,471	1,791	1,315	7,250
Project Total:	0	0	350	750	1,573	1,471	1,791	1,315	7,250
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	350	750	1,573	1,471	1,791	1,315	7,250
Appropriations Total*	0	0	350	750	1,573	1,471	1,791	1,315	7,250
O & M Costs (Savings)			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 in thousands of dollars.

SPU - Drainage & Wastewater

Drainage & Wastewater Partnership Program - WW

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Facility

Start Date: 1st Quarter 2007

Project ID: C3203

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program will provide funding and technical assistance for Seattle wastewater customers who install technologies or stormwater management systems that provide utility system benefits over and beyond regulatory compliance. 2007-2008 will be pilot years for the program, which is currently in a preliminary phase of development, and will focus on outreach to non-City customers. Cost estimates may be revised over time. By 2009, SPU anticipates this project will replace the Intergovernmental Shares - DRN program (C3355) and be open to projects by City and non-City customers.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	50	50	197	184	224	164	869
Project Total:	0	0	50	50	197	184	224	164	869
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	50	50	197	184	224	164	869
Appropriations Total*	0	0	50	50	197	184	224	164	869
O & M Costs (Savings)			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 in thousands of dollars.*

2007-2012 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Drainage Spot Improvements

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 1998
Project ID: C333201 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program makes a number of spot improvements to drainage systems throughout Seattle. Projects increase the capacity of the drainage systems and prevent flooding. Typical improvements include installation of inlets and catch-basins, construction of ditches and grassed swales, and installation of culverts. Funding to maintain the improvements made under this program is included SPU's 2007-2008 Proposed Budget. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	801	500	271	214	197	184	224	164	2,555
Project Total:	801	500	271	214	197	184	224	164	2,555
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	801	500	271	214	197	184	224	164	2,555
Appropriations Total*	801	500	271	214	197	184	224	164	2,555
O & M Costs (Savings)			3	3	3	3	3	3	18
Spending Plan		250	271	214	197	184	224	164	1,504

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

SPU - Drainage & Wastewater

Fish Passage Program

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353305

End Date: Ongoing

Location: Citywide

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program removes top priority fish passage barriers in the city that meet requirements for the use of drainage funds. Within the five fish-bearing creeks in Seattle, there are nearly 90 documented barriers to fish passage. The prioritized list of barriers that this project addresses changes as fish move into new areas, fish populations increase or decrease, and downstream barriers are modified or removed by SPU or others. SPU's Asset Management Committee approved this project in 2005. This project is in a preliminary phase of development and cost estimates will be revised over time. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	31	40	7	6	110	88	112	82	477
Project Total:	31	40	7	6	110	88	112	82	477
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	31	40	7	6	110	88	112	82	477
Appropriations Total*	31	40	7	6	110	88	112	82	477
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		68	7	6	110	88	112	82	474

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SPU - Drainage & Wastewater

Force Main Improvements

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2007
Project ID: C3103	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program implements the recommendations of the Force Main/Pump Station Plan by avoiding extremely high costs due to failure of force mains through assessment and repair/replacement of failing infrastructure. SPU's Asset Management Committee will review and approve the program in 2006. The certainty of the cost estimate is a low confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	591	464	393	368	448	329	2,593
Project Total:	0	0	591	464	393	368	448	329	2,593
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	591	464	393	368	448	329	2,593
Appropriations Total*	0	0	591	464	393	368	448	329	2,593
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Fremont-Wallingford Combined Sewer Overflow

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: Improved Facility	Start Date: 1st Quarter 2008
Project ID: C303102	End Date: 1st Quarter 2020

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project constructs Combined Sewer Overflow (CSO) reduction facilities in the Fremont/Wallingford area, at Basins 147 and 174. Major work includes flow monitoring, system modeling, facility planning, preliminary engineering, design, permits, land acquisition (if necessary), and construction. Work performed in the initial planning phase collects additional data and re-evaluates alternatives prior to allocating and spending additional funds. The project is on hold until 2008, and the project budget and schedule have been revised from the 2001 CSO Plan to account for project development, CSO Retrofit Implementation (which may reduce the size of the necessary facilities in this basin), and potential coordination with King County. The proposed allocation for 2008 would provide funds for initial planning work, with future allocations to be determined after the study is completed. This project is in a preliminary phase of development and cost estimates will be revised over time. SPU's Asset Management Committee will review the project in 2008. The confidence in the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	279	198	152	875	1,065	2,568
Project Total:	0	0	0	279	198	152	875	1,065	2,568
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	0	279	198	152	875	1,065	2,568
Appropriations Total*	0	0	0	279	198	152	875	1,065	2,568
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Future Combined Sewer Overflow Reduction

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Investment	Start Date: 1st Quarter 2009
Project ID: C309002	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project is a placeholder for Combined Sewer Overflow (CSO) reduction projects in 2009-2012 that have yet to be identified in detail. It will be utilized to reduce CSOs to less than one overflow per year in basins that are exceeding this service level, yet do not currently have specific projects identified by the CSO reduction plan.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	0	590	552	895	658	2,695
Project Total:	0	0	0	0	590	552	895	658	2,695
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	0	0	590	552	895	658	2,695
Appropriations Total*	0	0	0	0	590	552	895	658	2,695
O & M Costs (Savings)			0	0	0	0	0	0	0

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SPU - Drainage & Wastewater

Georgetown Flume Drainage Improvements

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: Improved Facility

Start Date: 1st Quarter 2007

Project ID: C307019

End Date: 4th Quarter 2008

Location: S Willow St/E Marginal Way S at Slip 4

Neighborhood Plan: Georgetown

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This project designs and constructs a new drainage system to replace the existing Georgetown flume system. The Georgetown flume currently functions as a storm drain, serving an approximately 10-acre basin at the north end of the King County Airport and discharges to the head of Slip 4. This area has been designated as an early action cleanup site as part of the Lower Duwamish Waterway Superfund project due to the presence of elevated levels of PCBs, phthalates (plasticizers), and other chemicals in the waterway sediment. The flume is owned by Seattle City Light and historically was used to convey cooling water from the Georgetown Steamplant, as well as numerous industrial discharges. It now collects runoff from City rights-of-way and private properties along S. Myrtle and S. Willow Streets, as well as runoff from areas immediately adjacent to the flume. The flume consists of a combination of pipes and wood or concrete-lined flumes that run about 2,500 feet across the north end of the King County Airport/Boeing Field.

Cleanup of contaminated sediment in Slip 4 is scheduled to occur in 2007-2008. The City of Seattle (City Light and SPU) is leading the cleanup effort with support from King County. Cleanup and closure of the flume must be completed prior to Slip 4 cleanup activities to prevent potential recontamination of the slip. City Light will remove contaminated sediment from the flume and, given the poor condition of the flume, intends to close the flume after it is cleaned. Because the flume still functions as a storm drain, the drainage system must either be replaced or the existing drainage routed elsewhere.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	209	207	0	0	0	0	416
Project Total:	0	0	209	207	0	0	0	0	416
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	209	207	0	0	0	0	416
Appropriations Total*	0	0	209	207	0	0	0	0	416
O & M Costs (Savings)			0	0	0	15	15	15	45

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

SPU - Drainage & Wastewater

GIS System Enhancements

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: New Investment **Start Date:** 1st Quarter 2004
Project ID: C343502 **End Date:** 4th Quarter 2009

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

The Drainage and Wastewater Geographic Information System (GIS) has undergone significant improvements in recent years to enhance accuracy and completeness. This project provides funding to complete yet-to-be addressed GIS data enhancements to deal with missing data, map/data correction backlog, and missing data attributes.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	220	45	97	80	71	0	0	0	513
Project Total:	220	45	97	80	71	0	0	0	513
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	220	45	97	80	71	0	0	0	513
Appropriations Total*	220	45	97	80	71	0	0	0	513
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		159	97	80	71	0	0	0	407

GIS System Enhancements- WW

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: New Investment **Start Date:** 1st Quarter 2007
Project ID: C307016 **End Date:** 4th Quarter 2008

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

The Drainage and Wastewater Geographic Information System (GIS) has undergone significant improvements in recent years to enhance accuracy and completeness. This project provides funding to complete yet-to-be addressed GIS data enhancements to deal with missing data, map/data correction backlog, and missing data attributes.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	103	39	0	0	0	0	142
Project Total:	0	0	103	39	0	0	0	0	142
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	103	39	0	0	0	0	142
Appropriations Total*	0	0	103	39	0	0	0	0	142
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Golden Gardens/View Avenue Landslide

BCL/Program Name: Landslide Mitigation & Special Programs	BCL/Program Code: C335B
Project Type: New Facility	Start Date: 2nd Quarter 2004
Project ID: C343403	End Date: 4th Quarter 2008

Location: Golden Garden Dr. NW/View Dr. NW

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This project performs preliminary engineering, initial design of a landslide mitigation project, and the design and construction of the SPU-only portion of the mitigation project in the area of Golden Gardens Drive NW and View Ave. NW. There is uncontrolled stormwater discharging off of View Ave. NW onto private properties and an eight-inch sewer line and pump station on a steep slope that has experienced several landslides in the past. The Seattle Department of Parks and Recreation (Parks) owns property down slope of both streets and Golden Gardens Drive NW has been damaged from past slides. This project has been identified as a potential joint project between SPU, Parks and the Seattle Department of Transportation. The project is in the design phase and cost estimates will be revised over time. The SPU Asset Management Committee (AMC) approved this project in 2004. In 2005 the AMC gave approval to proceed with the design of the SPU-only portion of the joint project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	135	100	293	1	0	0	0	0	529
Project Total:	135	100	293	1	0	0	0	0	529
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	135	100	293	1	0	0	0	0	529
Appropriations Total*	135	100	293	1	0	0	0	0	529
O & M Costs (Savings)			0	3	3	3	3	3	15
Spending Plan		55	293	1	0	0	0	0	350

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

SPU - Drainage & Wastewater

Greenwood Peat Bog

BCL/Program Name: Landslide Mitigation & Special Programs

BCL/Program Code: C335B

Project Type: Rehabilitation or Restoration

Start Date: 1st Quarter 2003

Project ID: C333207

End Date: 4th Quarter 2009

Location: NW 85th St. & NW 97th St. & Greenwood Ave. N & 8th Av. N

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This project studies the physical features of the Greenwood Peat Bog basin, including water levels, basin morphometry, and peat layers/characteristics. Flow monitors have also been installed in the storm drain system and in Pipers Creek to determine whether the creek is affected by land use impacts, especially dewatering, in the basin. Water level and flow monitoring take place over several years to develop a hydrologic model, which supports consideration of land use restrictions to control ongoing subsidence problems and alternatives to stormwater conveyance where technically feasible. Corrugated metal pipe used for the storm drain trunk system may be nearing the end of its useful life. The project also supports rehabilitation/replacement options for this system. The confidence level of the current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	215	20	25	13	85	0	0	0	359
Project Total:	215	20	25	13	85	0	0	0	359
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	215	20	25	13	85	0	0	0	359
Appropriations Total*	215	20	25	13	85	0	0	0	359
O & M Costs (Savings)			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 in thousands of dollars.*

2007-2012 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Greenwood Water Quality Best Management Practice

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2006

Project ID: C353306

End Date: 4th Quarter 2011

Location: N 105th St./N 112th St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Not in an Urban Village

This project designs and constructs a stormwater treatment facility to meet code requirements for a portion of the Seattle Department of Transportation (SDOT) roadway improvement project on Greenwood Ave. N between N 105th and N 112th Streets. See SDOT project TC36638 for more transportation-related information. SPU and SDOT have agreed that the existing natural drainage system on NW 110th can be modified to meet most of the drainage requirements. This project provides treatment for the section of Greenwood Ave. N between NW 105th and NW 107th via a media filtration vault or other conventional stormwater treatment system. The project also includes grant funding for the SDOT roadway improvement project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	80	0	0	786	74	45	0	985
Project Total:	0	80	0	0	786	74	45	0	985
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	80	0	0	786	74	45	0	985
Appropriations Total*	0	80	0	0	786	74	45	0	985
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		250	0	0	786	74	45	0	1,155

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

SPU - Drainage & Wastewater

Heavy Equipment Purchases - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Investment	Start Date: Ongoing
Project ID: C4116-DWF	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project replaces existing heavy equipment (such as vactors, loaders, and bulldozers) used by SPU field crews as well as funds the purchase of new equipment adds and the retrofitting of existing equipment to meet SPU operational needs and initiatives. This project was included in the 2006-2011 Adopted CIP as C300399 Heavy Equipment Purchases - DWF and C300499 Heavy Equipment Purchases - WW.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,919	867	1,330	1,141	1,028	476	407	887	8,056
Project Total:	1,919	867	1,330	1,141	1,028	476	407	887	8,056
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,919	867	1,330	1,141	1,028	476	407	887	8,056
Appropriations Total*	1,919	867	1,330	1,141	1,028	476	407	887	8,056
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		848	1,330	1,141	1,028	476	407	887	6,118

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

SPU - Drainage & Wastewater

High Point Drainage System

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 1st Quarter 2002

Project ID: C301303

End Date: 4th Quarter 2011

Location: SW Juneau St./SW Myrtle St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Not in an Urban Village

This project funds SPU's share of a partnership with the Seattle Housing Authority (SHA) to construct 34 blocks of natural drainage system in SHA's High Point 120-acre redevelopment. The natural drainage system project retrofits 9% of Longfellow Creek Watershed to meet the pre-developed pasture runoff conditions for the two-year design storm, as well as provide a distributed, block-scale water quality treatment system. The drainage system also includes construction of porous pavement sidewalks and one block of porous pavement street. The project enables SPU to achieve flood control and water quality objectives in the project area at a lower cost than through either development of a large regional drainage and water quality facility, or through retrofit of currently-developed streets to include natural drainage systems. Funding to maintain the new natural drainage system starting in 2007 will be included in future SPU operating budgets.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	2,431	1,100	1,376	256	59	55	67	0	5,344
Project Total:	2,431	1,100	1,376	256	59	55	67	0	5,344
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	2,431	1,100	1,376	256	59	55	67	0	5,344
Appropriations Total*	2,431	1,100	1,376	256	59	55	67	0	5,344
O & M Costs (Savings)			36	64	64	65	65	0	294
Spending Plan		465	1,376	256	59	55	67	0	2,278

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

SPU - Drainage & Wastewater

I-5 Pavement Reconstruction - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Improved Facility	Start Date: 1st Quarter 2007
Project ID: C407022-DWF	End Date: 4th Quarter 2020

Location: I-5

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program relocates or replaces drainage-related facilities affected by the Washington State Department of Transportation's (WSDOT) I-5 Pavement Reconstruction Project. WSDOT is planning on reconstructing 16 miles of I-5 pavement from Tukwila/Seattle city limits North to NE 145th. The confidence level of the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	132	135	135	138	141	145	825
Project Total:	0	0	132	135	135	138	141	145	825
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	132	135	135	138	141	145	825
Appropriations Total*	0	0	132	135	135	138	141	145	825
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	132	135	135	138	141	145	825

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

SPU - Drainage & Wastewater

Integrated Control Monitoring Program - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Investment	Start Date: 1st Quarter 2002
Project ID: C4108-DWF	End Date: 4th Quarter 2012

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program integrates DWW field data into the new Supervisory Control and Data Acquisition (SCADA) system installed as part of CIP project C195008. This program is broken down into two concurrent projects. Project One will integrate wastewater and surface water field monitoring systems into the new SCADA system at the Operations Control Center. This will upgrade approximately 85 combined sewer overflow sites, 68 wastewater lift stations, 17 rain gauge sites, and the communication infrastructure. The project defines and implements processes, procedures, and interfaces to make quality-validated SCADA measurement data available to operators, planners, and management. This data will be used to assist in capacity planning, validating repairs, assessing new permits, and prioritizing planned maintenance. Project Two integrates SCADA with SPU asset and maintenance information management systems. SCADA measurement data will be used to assist in capacity planning, validating repairs, identifying blockages, assessing DPD permit requests, correlating/calibrating models, and prioritizing planned maintenance.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	976	1,110	1,446	1,360	1,830	2,290	2,319	2,348	13,680
Project Total:	976	1,110	1,446	1,360	1,830	2,290	2,319	2,348	13,680
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	976	1,110	1,446	1,360	1,830	2,290	2,319	2,348	13,680
Appropriations Total*	976	1,110	1,446	1,360	1,830	2,290	2,319	2,348	13,680
O & M Costs (Savings)			0	319	499	594	689	784	2,885
Spending Plan		0	1,446	1,360	1,830	2,290	2,319	2,348	11,594

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

SPU - Drainage & Wastewater

Intergovernmental Shares - DRN

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: New Facility **Start Date:** 1st Quarter 2004
Project ID: C3355 **End Date:** 4th Quarter 2008

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program provides funding to enable SPU to collaborate with other City departments that are implementing projects that have a drainage fund nexus and create a benefit for the drainage system. Proposed projects must meet specific criteria to be eligible for funding. SPU is responsible for selecting the projects that will participate in the program. By 2009, this project will transition to the Drainage & Wastewater Partnership Program (C3335), which has a broader pool of applicants.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,984	2,000	1,700	1,800	0	0	0	0	7,484
Project Total:	1,984	2,000	1,700	1,800	0	0	0	0	7,484
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,984	2,000	1,700	1,800	0	0	0	0	7,484
Appropriations Total*	1,984	2,000	1,700	1,800	0	0	0	0	7,484
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,750	1,700	1,800	0	0	0	0	5,250

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

SPU - Drainage & Wastewater

Intergovernmental Shares - WW

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Facility

Start Date: 1st Quarter 2004

Project ID: C3205

End Date: 4th Quarter 2008

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program provides funding to enable SPU to collaborate with other City departments that are implementing projects that have a drainage fund nexus and that create a benefit for the wastewater system. Proposed projects must meet specific criteria to be eligible for funding. SPU is responsible for selecting the projects that will participate in the program. By 2009, this project will transition to the Drainage & Wastewater Partnership Program (C3203), which has a broader pool of applicants.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	249	250	300	300	0	0	0	0	1,099
Project Total:	249	250	300	300	0	0	0	0	1,099
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	249	250	300	300	0	0	0	0	1,099
Appropriations Total*	249	250	300	300	0	0	0	0	1,099
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Jackson Park Detention - Phase 2

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 2nd Quarter 1999

Project ID: C399305

End Date: 4th Quarter 2009

Location: Jackson Park Golf Course

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Not in an Urban Village

This project constructed three detention ponds in the Jackson Park golf course, including overflow structures between Thornton Creek and the new ponds. The project rerouted 1,600 feet of Thornton Creek channel within the golf course to accommodate the detention ponds and improve habitat for fish and wildlife. The project removed 500 feet of culvert within the golf course and replaced it with open creek channel. This project was substantially completed in 2003 and physical completion notice was issued in April 2004. Remaining work includes post-construction monitoring, reporting to external agencies, and riparian plant establishment to meet federal permitting requirements. Funding to operate and maintain the detention pond and other facilities is included in the SPU operating budget. The confidence level of the current cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	10,599	110	123	99	85	0	0	0	11,016
Project Total:	10,599	110	123	99	85	0	0	0	11,016
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	10,599	110	123	99	85	0	0	0	11,016
Appropriations Total*	10,599	110	123	99	85	0	0	0	11,016
O & M Costs (Savings)			45	45	45	45	45	45	270
Spending Plan		108	123	99	85	0	0	0	415

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

2007-2012 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Lakewood Raincatcher Pilot Project

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C305202

End Date: 4th Quarter 2012

Location: Lakewood Avenue South

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: Columbia City

This project studies decentralized alternatives to managing the collection, conveyance, and disposal of stormwater in combined sewer or partially-separated sewer basins. The project also implements a stormwater cistern and rain garden demonstration project in the Lakewood Avenue SE neighborhood, which includes conducting pre- and post-project monitoring, marketing, and modeling. The project was created in 2004 by Ordinance 121553, and is partially funded by a \$1.3 million grant from the EPA. In the 2006-2011 Adopted CIP, this project was called "South Henderson Street Raincatchers". SPU requested the name be changed via a 2006 Supplemental to change the location of this project. The SPU Asset Management Committee approved a Change PDP for this project in August 2006. The confidence in the budget is medium low as this project is still in preliminary engineering.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	78	628	851	103	50	37	45	33	1,825
Project Total:	78	628	851	103	50	37	45	33	1,825
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	78	628	851	103	50	37	45	33	1,825
Appropriations Total*	78	628	851	103	50	37	45	33	1,825
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		238	851	103	50	37	45	33	1,357

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

SPU - Drainage & Wastewater

Localized Flood Control Program

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: Ongoing

Project ID: C3312

End Date: 4th Quarter 2012

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program reduces flooding and the impacts of stormwater associated with the local collection and conveyance system. This local system is a secondary system of pipes, ditches, creek tributaries, culverts, inlets, and catch basins that collect and convey stormwater runoff to the primary (a.k.a. trunk) conveyance system, though in some instances the secondary system discharges directly to a receiving water body. This program will bridge the gap between Spot Drainage projects and Major CIP projects. The construction of these medium-size projects will help reduce flooding throughout the City. The confidence level in the current cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	452	1,440	250	1,001	1,040	837	895	658	6,574
Project Total:	452	1,440	250	1,001	1,040	837	895	658	6,574
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	452	1,440	250	1,001	1,040	837	895	658	6,574
Appropriations Total*	452	1,440	250	1,001	1,040	837	895	658	6,574
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	250	1,001	1,040	837	895	658	4,682

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

SPU - Drainage & Wastewater

Lower Densmore Drainage Improvement

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353205

End Date: 4th Quarter 2008

Location: Aurora Ave. N

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This project develops a strategic implementation plan for drainage (primary) and water quality (secondary) improvements for the Lower Densmore Basin. This basin has experienced numerous flooding incidents for two-year storm levels or higher, in particular at N 107th and Midvale Ave. N, and the Licton Springs area. Low-impact development stormwater alternatives are being analyzed as one of the various methods to reduce flooding and provide water quality treatment. A hydraulic model is in development to analyze the balance and locations of flows into and out of Green Lake with the intent of modifying overflow structures to provide additional storage capacity. The planning phase of this project was reviewed by SPU's Asset Management Committee in 2003, and the entire project will be reviewed again in 2006. The confidence level of the current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	152	225	6	5	0	0	0	0	388
Project Total:	152	225	6	5	0	0	0	0	388
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	152	225	6	5	0	0	0	0	388
Appropriations Total*	152	225	6	5	0	0	0	0	388
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		157	6	5	0	0	0	0	168

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

SPU - Drainage & Wastewater

Madison Valley Long Term Solution

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2007

Project ID: C307014

End Date: 4th Quarter 2012

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Central

Urban Village: Not in an Urban Village

This project, the Madison Valley Long Term Solution (Madison Valley Phase IV), will implement a permanent solution to stormwater flooding and side sewer backups in the Madison Valley area. Earlier phases of the project, including the Madison Valley Interim Solution Project (Madison Valley Phase III) which is currently in construction, is implementing temporary solutions until the new facilities to be built under the long-term solution come online. These temporary solutions include storage of up to 1 million gallons of stormwater and flow control gates to reduce side sewer backups. However, computer flow modeling and additional basin and rainfall analysis has indicated that the required stormwater capacity during intense storm events could exceed 3 million gallons, thus necessitating further analysis and planning for a long-term solution. The initial project development plan was approved by SPU's Asset Management Committee in December 2005. Preliminary engineering will conclude in the second quarter of 2007.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	1,032	2,158	3,932	1,471	90	66	8,749
Project Total:	0	0	1,032	2,158	3,932	1,471	90	66	8,749
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	1,032	2,158	3,932	1,471	90	66	8,749
Appropriations Total*	0	0	1,032	2,158	3,932	1,471	90	66	8,749
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Meadowbrook Outfall Rehabilitation

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353206

End Date: 2nd Quarter 2008

Location: Riviera Pl. NE & NE 105th & NE 106th St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Not in an Urban Village

This project repairs or replaces three damaged outfall pipes discharging overflow stormwater from Meadowbrook Pond to Lake Washington at Riviera Place NE between NE 106th St. and NE 105th St. Alternatives to repairing or replacing the three outfall pipes were investigated and the conditions of related structures including a seawall were assessed. Investigation has shown that since two of the three outfall pipes could handle the design flow, only those pipes will be repaired and the third outfall pipe will be abandoned.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	207	231	1,243	29	0	0	0	0	1,710
Project Total:	207	231	1,243	29	0	0	0	0	1,710
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	207	231	1,243	29	0	0	0	0	1,710
Appropriations Total*	207	231	1,243	29	0	0	0	0	1,710
O & M Costs (Savings)			0	0	12	12	12	12	48
Spending Plan		230	1,243	29	0	0	0	0	1,503

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

SPU - Drainage & Wastewater

Meter Replacement - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** Ongoing
Project ID: C4101-DWF **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program replaces customer meters that are not performing within the American Water Works Association's standards of accuracy due to obsolescence, incorrect application, or inability to repair. It is currently more cost-effective to replace two-inch and smaller meters than it is to repair them. Three-inch and larger meters are repaired, if possible. SPU's Asset Management Committee has approved the program. The confidence level of the cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,343	597	530	534	517	530	543	557	5,151
Project Total:	1,343	597	530	534	517	530	543	557	5,151
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,343	597	530	534	517	530	543	557	5,151
Appropriations Total*	1,343	597	530	534	517	530	543	557	5,151
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		643	530	534	517	530	543	557	3,854

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SPU - Drainage & Wastewater

Minor Facility Upgrades - Rehabilitation

BCL/Program Name: Wastewater Conveyance	BCL/Program Code: C320B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 1998
Project ID: C3AA402	End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project makes minor upgrades and replacements to sewer infrastructure such as setting castings to grade on repaving projects, replacing existing castings with larger diameter castings to meet safety standards, and installing maintenance holes on existing sewer mainlines. These upgrades facilitate maintenance activities and do not increase capacity. This project was reviewed by SPU's Asset Management Committee as part of the overall Sewer Rehabilitation Programmatic Plan in May 2005. The confidence level in this cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	243	76	96	82	75	74	94	72	812
Project Total:	243	76	96	82	75	74	94	72	812
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	243	76	96	82	75	74	94	72	812
Appropriations Total*	243	76	96	82	75	74	94	72	812
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		26	96	82	75	74	94	72	519

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

SPU - Drainage & Wastewater

MLK Way/Norfolk Street Storm Improvement

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 1st Quarter 2003

Project ID: C333205

End Date: 4th Quarter 2011

Location: Norfolk Drainage Basin East Of I-5

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This project reduces flooding problems along Martin Luther King, Jr. Way S and adjacent streets by rehabilitating the existing system, eliminating bypasses to the sanitary sewer system, and providing a functioning conveyance system for future roadway and drainage improvements proposed for construction in 2007 along Martin Luther King, Jr. Way by Sound Transit. The project removes petroleum-contaminated sediments from the existing system, provides improved maintenance access for future cleaning, increases the carrying capacity of the system to meet a 25-year performance level, improves storm water quality treatment using funding from Sound Transit, and reduces overall long-term maintenance costs. This project was initially reviewed by SPU's Asset Management Committee in 2005, and will be reviewed again in 2006. The confidence level in the current cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	613	183	285	284	4	4	4	0	1,377
Project Total:	613	183	285	284	4	4	4	0	1,377
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	613	183	285	284	4	4	4	0	1,377
Appropriations Total*	613	183	285	284	4	4	4	0	1,377
O & M Costs (Savings)			0	2	2	2	2	0	8
Spending Plan		440	285	284	4	4	4	0	1,021

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

SPU - Drainage & Wastewater

Mobility Improvement

BCL/Program Name: Landslide Mitigation & Special Programs

BCL/Program Code: C335B

Project Type: Improved Facility

Start Date: 1st Quarter 2004

Project ID: C333514

End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project funds drainage designers to work on Seattle Department of Transportation (SDOT) design functions and assist with cost estimates for transportation capital project grant applications. This coordination allows SPU to improve drainage in concert with transportation capital projects.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	600	300	308	315	323	331	339	348	2,864
Project Total:	600	300	308	315	323	331	339	348	2,864
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	600	300	308	315	323	331	339	348	2,864
Appropriations Total*	600	300	308	315	323	331	339	348	2,864
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

N 125th & Aurora N Storm Drain

BCL/Program Name: Stormwater & Flood Control

BCL/Program Code: C332B

Project Type: New Facility

Start Date: 3rd Quarter 2002

Project ID: C302313

End Date: 4th Quarter 2010

Location: Aurora Ave N/N 110th St/N 145th St

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Bitter Lake Village

This project will coordinate with the Seattle Department of Transportation (SDOT) Aurora Transit, Pedestrian and Safety Improvements project TC36625, which installs new curbs, gutters, sidewalks, and a bus lane on Aurora Ave. N from N 110th to N 145th St. Stormwater facilities are associated with the SDOT Project. The SDOT project will be required to meet City of Seattle stormwater requirements for the applicable project areas. SPU is analyzing potential stormwater improvements to augment the SDOT Project improvements to match existing conditions in the downstream trunk drainage system. The SPU stormwater improvements may include new and/or modified existing stormwater flow control facilities (i.e., detention), conveyance, and water quality facilities. This project was reviewed by SPU's Asset Management Committee in 2003 and will be reviewed again in 2007. The confidence level in the current cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	769	575	403	990	1,636	1,221	0	0	5,594
Project Total:	769	575	403	990	1,636	1,221	0	0	5,594
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	769	575	403	990	1,636	1,221	0	0	5,594
Appropriations Total*	769	575	403	990	1,636	1,221	0	0	5,594
O & M Costs (Savings)			0	0	13	26	40	0	79
Spending Plan		360	403	990	1,636	1,221	0	0	4,610

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

SPU - Drainage & Wastewater

Natural Drainage System Improvements

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: Improved Facility

Start Date: 1st Quarter 2003

Project ID: C333206

End Date: Ongoing

Location: 3rd Ave. NW

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This ongoing project assesses unimproved right-of-way and right-of-way redevelopment opportunities within the city and identifies areas suitable for enhancing existing drainage systems. In addition to identifying "natural system" drainage areas based on surface water management goals, the project assesses neighborhood, land use, and transportation objectives for the right-of-way. The project produces a suitability map for "natural system" surface water management in the right-of-way. The project also identifies a menu of options for natural system enhancement based on local condition criteria and drainage basin performance goals relative to conveyance, detention, or treatment. Each option is developed for consideration in the City's Street Improvement Manual, and includes right-of-way elements, configuration, and dimensions. For each option, associated standard plans are developed for consideration in the Standard Plans update to assist SPU in prioritizing drainage improvements.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	82	396	169	501	413	386	895	658	3,500
Project Total:	82	396	169	501	413	386	895	658	3,500
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	82	396	169	501	413	386	895	658	3,500
Appropriations Total*	82	396	169	501	413	386	895	658	3,500
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		200	169	501	413	386	895	658	3,222

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

SPU - Drainage & Wastewater

Neighborhood Drainage/Climate Bonus Matching Grant Project

BCL/Program Name: Protection of Beneficial Uses	BCL/Program Code: C333B
Project Type: New Facility	Start Date: TBD
Project ID: C307020	End Date: TBD

Location:

Neighborhood Plan: In more than one Plan	Neighborhood Plan Matrix: Multiple
Neighborhood District: In more than one District	Urban Village: Not in an Urban Village

This matching grant project funds community-based drainage projects that have important drainage benefits and additional value in meeting climate protection goals. It would seek to leverage SPU's drainage efforts with a dollar-for-dollar contribution of volunteer labor and donated materials and services for such projects. This project was added to the 2007-2012 Adopted CIP by Council action. The 2007 work plan for this CIP should include development of project review criteria to ensure a strong drainage nexus and a cost-efficient grant review and administration process.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	150	150	150	150	150	150	900
Project Total:	0	0	150	150	150	150	150	150	900
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	150	150	150	150	150	150	900
Appropriations Total*	0	0	150	150	150	150	150	150	900
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Nine Minimum Controls Compliance

BCL/Program Name: Control Structures

BCL/Program Code: C310B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C307004

End Date: 4th Quarter 2008

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project, Nine Minimum Controls (NMC) Compliance, documents the current efforts and potential gaps needed to achieve Combined Sewer Overflow (CSO) compliance with the National Pollutant Discharge Elimination System (NPDES) Permit. SPU's Asset Management Committee will review and approve the project in 2007. The certainty of the cost estimate is a low confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	117	94	0	0	0	0	211
Project Total:	0	0	117	94	0	0	0	0	211
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	117	94	0	0	0	0	211
Appropriations Total*	0	0	117	94	0	0	0	0	211
O & M Costs (Savings)			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 in thousands of dollars.*

2007-2012 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

No Dig Pipe & Maintenance Rehabilitation

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: Rehabilitation or Restoration **Start Date:** Ongoing
Project ID: C3AA403 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** In more than one Urban Village

This ongoing program rehabilitates sewer pipes prior to complete failure. "No Dig", or trenchless, technology is used for full line replacements, and avoids surface use disruption and costly surface repairs. This program was reviewed by SPU's Asset Management Committee as part of the overall Sewer Rehabilitation Programmatic Plan in May 2005. The confidence level in this cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	10,068	663	2,346	2,160	1,793	1,477	2,248	1,651	22,407
Project Total:	10,068	663	2,346	2,160	1,793	1,477	2,248	1,651	22,407
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	10,068	663	2,346	2,160	1,793	1,477	2,248	1,651	22,407
Appropriations Total*	10,068	663	2,346	2,160	1,793	1,477	2,248	1,651	22,407
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,163	2,346	2,160	1,793	1,477	2,248	1,651	12,839

Operational Facility - Construction - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** Ongoing
Project ID: C4106-DWF **End Date:** Ongoing

Location: Multiple

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** Not in an Urban Village

This program funds facility construction improvements for operational facilities within the city limits that support SPU management, operations and maintenance business functions, workforce, material, and equipment. Sub-projects within this program will go to the AMC for approval. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,518	1,050	1,458	679	894	916	875	896	8,286
Project Total:	1,518	1,050	1,458	679	894	916	875	896	8,286
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,518	1,050	1,458	679	894	916	875	896	8,286
Appropriations Total*	1,518	1,050	1,458	679	894	916	875	896	8,286
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,524	1,458	679	894	916	875	896	7,242

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

SPU - Drainage & Wastewater

Operational Facility - Other - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2006
Project ID: C4115-DWF **End Date:** Ongoing

Location: Multiple

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This program funds non-construction improvements such as studies, assessments, planning, design, and purchases for operational facility assets within the city limits. In 2011-2012 SPU is planning to focus improvements on Water-funded projects, but that could be changed over time as projects are determined. Sub-projects within this program will go to SPU's Asset Management Committee for approval.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	373	626	74	75	77	0	0	1,225
Project Total:	0	373	626	74	75	77	0	0	1,225
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	373	626	74	75	77	0	0	1,225
Appropriations Total*	0	373	626	74	75	77	0	0	1,225
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		113	626	74	75	77	0	0	965

Operations Control Center - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2003
Project ID: C4105-DWF **End Date:** 4th Quarter 2010

Location: 2700 Airport Way South/Forest Street/Lender Street

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Greater Duwamish **Urban Village:** Not in an Urban Village

This program rehabilitates, replaces, and constructs new improvements at the Operations Control Center complex to support the business needs of SPU's operational work force. Sub-projects within this program will go to the Asset Management Committee for approval.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	294	1,054	640	123	474	46	0	0	2,631
Project Total:	294	1,054	640	123	474	46	0	0	2,631
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	294	1,054	640	123	474	46	0	0	2,631
Appropriations Total*	294	1,054	640	123	474	46	0	0	2,631
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,461	640	123	474	46	0	0	2,744

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

SPU - Drainage & Wastewater

Other Agency Opportunity - DRN

BCL/Program Name: Landslide Mitigation & Special Programs	BCL/Program Code: C335B
Project Type: New Facility	Start Date: 1st Quarter 2005
Project ID: C3345	End Date: Ongoing

Location: Citywide

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program designs and constructs improvements to the drainage system as opportunities arise to partner with projects being constructed by other agencies. In order to reduce disruption of neighborhoods by future street openings, SPU considers replacing or repairing facilities in conjunction with construction on other projects such as Sound Transit Link Light Rail, the Alaskan Way Viaduct, other Washington State Department of Transportation projects, and transportation improvements at South Lake Union. SPU saves the cost of surface restoration and extends the life of its facilities, or upgrades their capacity, as necessary. This project is in a preliminary phase of development and cost estimates are revised over time as specific projects are identified.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1	400	139	112	847	812	1,014	744	4,068
Project Total:	1	400	139	112	847	812	1,014	744	4,068
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1	400	139	112	847	812	1,014	744	4,068
Appropriations Total*	1	400	139	112	847	812	1,014	744	4,068
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	139	112	847	812	1,014	744	3,668

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

SPU - Drainage & Wastewater

Other Agency Opportunity - WW

BCL/Program Name: Wastewater Conveyance	BCL/Program Code: C320B
Project Type: New Facility	Start Date: 1st Quarter 2006
Project ID: C3204	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: In more than one Urban Village

This program designs and constructs improvements to the wastewater system as opportunities arise to partner with projects being constructed by other agencies. In order to reduce disruption of neighborhoods by future street openings, SPU considers replacing or repairing facilities in conjunction with construction on other projects such as Sound Transit Link Light Rail, the Alaskan Way Viaduct, other Washington State Department of Transportation projects, and transportation improvements at South Lake Union. SPU saves the cost of surface restoration and extends the life of its facilities or upgrades their capacity, as needed. This project is in a preliminary phase of development and cost estimates are revised over time as specific projects are identified.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	200	23	21	339	325	406	299	1,612
Project Total:	0	200	23	21	339	325	406	299	1,612
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	200	23	21	339	325	406	299	1,612
Appropriations Total*	0	200	23	21	339	325	406	299	1,612
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	23	21	339	325	406	299	1,412

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

SPU - Drainage & Wastewater

Outfall Rehabilitation Program - DRN

BCL/Program Name: Landslide Mitigation & Special Programs	BCL/Program Code: C335B
Project Type: Rehabilitation or Restoration	Start Date: 2nd Quarter 2005
Project ID: C353207	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project funds improvements to the City's wastewater outfalls, based on the results of the Outfall Inspection - Drainage project (C302304). The project's initial focus is on developing an analysis of the existing information on the outfalls and related permitting processes and interagency activities. SPU's Asset Management Committee will review and approve the program in 2007. The certainty of the cost estimate is a low confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	63	200	239	549	488	456	555	408	2,958
Project Total:	63	200	239	549	488	456	555	408	2,958
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	63	200	239	549	488	456	555	408	2,958
Appropriations Total*	63	200	239	549	488	456	555	408	2,958
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		250	239	549	488	456	555	408	2,945

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

SPU - Drainage & Wastewater

Outfall Rehabilitation Program - WW

BCL/Program Name: Wastewater Conveyance	BCL/Program Code: C320B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2006
Project ID: C305203	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project funds improvements to the City's wastewater outfalls, based on the results of the Outfall Inspection-Wastewater project (C302202). The project's initial focus is on developing an analysis of the existing information on the outfalls and related permitting processes and interagency activities. SPU's Asset Management Committee will review and approve the program in 2007. The certainty of the cost estimate is a low confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	10	0	0	118	110	224	164	627
Project Total:	0	10	0	0	118	110	224	164	627
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	10	0	0	118	110	224	164	627
Appropriations Total*	0	10	0	0	118	110	224	164	627
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		20	0	0	118	110	224	164	637

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

SPU - Drainage & Wastewater

Pinehurst Natural Drainage System

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 4th Quarter 2002

Project ID: C333202

End Date: 4th Quarter 2008

Location: Thornton Creek Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northeast

Urban Village: Not in an Urban Village

This project constructs natural drainage system improvements to convey stormwater, using the unimproved right-of-way as a starting point for design. The project scope includes: constructing an engineered system of swales or other design alternatives to detain runoff, filter pollutants, and allow maximum opportunity for infiltration; using native vegetation as a stormwater management element, as well as for aesthetic appeal; and constructing a sidewalk on one side of each street within the project area. The project installs natural drainage systems on approximately 11.5 blocks (330 ft. per block) in the project area. In addition, some ditch and culvert systems are installed to mitigate existing spot drainage problems. In 2004, this project was the subject of a budget proviso, which was lifted by Ordinance 121459. The project is partially funded with a \$3.7 million state Public Works Trust Fund loan, which was approved by Ordinance 121464 in 2004. Beginning in 2008, costs to operate and maintain the new system are included in the Department's operating budget. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	3,356	1,287	30	15	0	0	0	0	4,687
Project Total:	3,356	1,287	30	15	0	0	0	0	4,687
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	3,356	1,287	30	15	0	0	0	0	4,687
Appropriations Total*	3,356	1,287	30	15	0	0	0	0	4,687
O & M Costs (Savings)			0	3	3	7	7	7	27
Spending Plan		1,441	30	15	0	0	0	0	1,485

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

SPU - Drainage & Wastewater

Piper's Creek - Detention

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: Improved Facility

Start Date: 3rd Quarter 1999

Project ID: C399326

End Date: 4th Quarter 2007

Location: 777 NW Carkeek Park Rd.

Neighborhood Plan: Broadview-Bitter Lake-Haller Lake

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

The existing pond on NW Carkeek Park Road is loaded with sediment and has little detention capacity, requiring substantial improvements before it can serve as a detention facility. After evaluation of alternatives and performing cost/benefit analysis, the preferred option is to dredge the existing pond now and every 10 years to maintain its function as a sedimentation trap. The project provides for this dredging, as well as for ongoing dam monitoring and ditch cleaning. This project is scheduled to be completed at the end of 2006, but there is potential for schedule delays so it is being included in the 2007-2012 CIP. If the project continues into 2007, funds will be carried forward as necessary.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	308	24	0	0	0	0	0	0	332
Project Total:	308	24	0	0	0	0	0	0	332
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	308	24	0	0	0	0	0	0	332
Appropriations Total*	308	24	0	0	0	0	0	0	332
O & M Costs (Savings)			3	3	3	3	3	0	15
Spending Plan		10	0	0	0	0	0	0	10

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

SPU - Drainage & Wastewater

Point Sewer Pipe Rehabilitation - Contract

BCL/Program Name: Wastewater Conveyance	BCL/Program Code: C320B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2003
Project ID: C303401	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program rehabilitates and/or replaces failing and misaligned sewer pipes throughout the city. An ongoing closed circuit television inspection program identifies pipes to be replaced. This program prevents complete pipe collapse by providing small repairs at numerous sites throughout the city, avoiding more costly full-line failures or repairs. This rehabilitation program is performed by outside contractors.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,740	445	1,078	1,156	786	736	895	658	7,494
Project Total:	1,740	445	1,078	1,156	786	736	895	658	7,494
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,740	445	1,078	1,156	786	736	895	658	7,494
Appropriations Total*	1,740	445	1,078	1,156	786	736	895	658	7,494
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		450	1,078	1,156	786	736	895	658	5,759

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

SPU - Drainage & Wastewater

Point Sewer Pipe Rehabilitation - Crews

BCL/Program Name: Wastewater Conveyance	BCL/Program Code: C320B
Project Type: Rehabilitation or Restoration	Start Date: 1st Quarter 2003
Project ID: C303402	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program rehabilitates and/or replaces failing and misaligned sewer pipes throughout the city. An ongoing closed circuit television inspection program identifies pipes to be replaced. This program prevents complete pipe collapse by providing small repairs at numerous sites throughout the city, avoiding more costly full-line failures or repairs. This rehabilitation program is performed by City crews.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	8,438	3,200	2,410	2,149	2,957	2,850	3,572	2,702	28,277
Project Total:	8,438	3,200	2,410	2,149	2,957	2,850	3,572	2,702	28,277
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	8,438	3,200	2,410	2,149	2,957	2,850	3,572	2,702	28,277
Appropriations Total*	8,438	3,200	2,410	2,149	2,957	2,850	3,572	2,702	28,277
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		2,200	2,410	2,149	2,957	2,850	3,572	2,702	18,839

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

SPU - Drainage & Wastewater

Post -Construction Monitoring

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Investment	Start Date: 1st Quarter 2007
Project ID: C307003	End Date: 4th Quarter 2011

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project will meet the National Pollutant Discharge Elimination System (NPDES) Permit requirement for development of a Post-Construction Compliance Monitoring Plan. The Plan may detail the measures for effectiveness of the Combined Sewer Overflow (CSO) controls, and may be used to demonstrate attainment of water quality standards. The Plan may include monitoring protocols for biological assessments, ambient monitoring, and related activities. SPU's Asset Management Committee will review and approve the project in 2007. The certainty of the cost estimate is a low confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	59	47	79	74	90	0	348
Project Total:	0	0	59	47	79	74	90	0	348
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	59	47	79	74	90	0	348
Appropriations Total*	0	0	59	47	79	74	90	0	348
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Pump Station Improvements

BCL/Program Name: Control Structures

BCL/Program Code: C310B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C3102

End Date: Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program provides for wastewater pump station improvements, upgrades, repairs and rehabilitation, including design and installation of emergency generators, and material and labor costs for equipment replacement (pumps and valves), as well as equipment for the remote monitoring system. This program implements the Pump Station Asset Management Plan. SPU's Asset Management Committee will review and approve the project in 2007. The certainty of the cost estimate is a low confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	452	400	661	521	1,337	1,251	1,522	1,118	7,262
Project Total:	452	400	661	521	1,337	1,251	1,522	1,118	7,262
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	452	400	661	521	1,337	1,251	1,522	1,118	7,262
Appropriations Total*	452	400	661	521	1,337	1,251	1,522	1,118	7,262
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	661	521	1,337	1,251	1,522	1,118	6,410

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

SPU - Drainage & Wastewater

Pump Station Optimization Study

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Investment	Start Date: 1st Quarter 2009
Project ID: C307012	End Date: 4th Quarter 2010

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This study examines the optimal methods and timing for operating and maintaining the pump stations. It may include evaluation of alternative technologies for cleaning or assessment of force mains, pumps, or ancillary equipment/infrastructure. SPU's Asset Management Committee will review and approve the project in 2007. The certainty of the cost estimate is a low confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	0	79	37	0	0	115
Project Total:	0	0	0	0	79	37	0	0	115
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	0	0	79	37	0	0	115
Appropriations Total*	0	0	0	0	79	37	0	0	115
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Raincatcher Creek Pilot Project

BCL/Program Name: Landslide Mitigation & Special Programs

BCL/Program Code: C335B

Project Type: New Facility

Start Date: 1st Quarter 2007

Project ID: C307015

End Date: 4th Quarter 2008

Location: Pipers Creek Watershed/NW 143rd St./NW 120th St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

The Raincatcher Creek Pilot Project targets high-priority watershed basins to fund customer-based strategies, such as cisterns and rain gardens, to reduce stormwater flows to the drainage system and water bodies. This project responds to Council Resolution 30720 by targeting customer incentive programs to high-priority areas such as creek watersheds, Combined Sewer Overflow (CSO) basins, and areas of greatest water quality concern. SPU is currently implementing a customer-based strategy in a CSO basin in SE Seattle. This project will implement and test customer-based approaches in a priority creek watershed. This project will be reviewed by SPU's Asset Management Committee in 2007. The confidence level in the current cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	235	212	0	0	0	0	447
Project Total:	0	0	235	212	0	0	0	0	447
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	235	212	0	0	0	0	447
Appropriations Total*	0	0	235	212	0	0	0	0	447
O & M Costs (Savings)			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 in thousands of dollars.

SPU - Drainage & Wastewater

S Genesee Combined Sewer Overflow

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Facility	Start Date: 1st Quarter 2005
Project ID: C303103	End Date: 3rd Quarter 2016

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: Not in an Urban Village

This project constructs facilities for Combined Sewer Overflow (CSO) reduction in the S Genesee area. Major work includes flow monitoring, system modeling, facility planning, preliminary engineering, design, permits, land acquisition (if necessary) and construction. The project schedule has been revised from the 2001 CSO Plan to account for project development; work performed under the CSO Facility Retrofit project (C302102), which may reduce the size of the necessary facilities in this basin; and potential coordination with King County. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	305	325	1,183	48	660	1,559	2,418	6,551	13,049
Project Total:	305	325	1,183	48	660	1,559	2,418	6,551	13,049
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	305	325	1,183	48	660	1,559	2,418	6,551	13,049
Appropriations Total*	305	325	1,183	48	660	1,559	2,418	6,551	13,049
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		425	1,183	48	660	1,559	2,418	6,551	12,844

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

SPU - Drainage & Wastewater

S Henderson Combined Sewer Overflow Storage

BCL/Program Name: Control Structures	BCL/Program Code: C310B
Project Type: New Facility	Start Date: 1st Quarter 2005
Project ID: C304102	End Date: 4th Quarter 2017

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: Not in an Urban Village

This project constructs facilities for Combined Sewer Overflow (CSO) reduction in the S Henderson/Rainier Avenue S area. Major work includes flow monitoring, system modeling, facility planning, preliminary engineering, design, permits, land acquisition (if necessary), and construction. The project schedule has been revised from the 2001 CSO Plan to account for project development; work performed under the CSO Facility Retrofit project (C302102), which may reduce the size of the necessary facilities in this basin; and potential co-ordination with King County. This project is in a preliminary phase of development and cost estimates will be revised over time. This project has been approved by SPU's Asset Management Committee. In addition, this project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	368	325	577	1,001	251	2,265	3,884	7,900	16,571
Project Total:	368	325	577	1,001	251	2,265	3,884	7,900	16,571
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	368	325	577	1,001	251	2,265	3,884	7,900	16,571
Appropriations Total*	368	325	577	1,001	251	2,265	3,884	7,900	16,571
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		297	577	1,001	251	2,265	3,884	7,900	16,175

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

SPU - Drainage & Wastewater

Salmon Bay Phase 2 Acquisition & Restoration

BCL/Program Name: Landslide Mitigation & Special Programs

BCL/Program Code: C335B

Project Type: Improved Facility

Start Date: 2nd Quarter 2003

Project ID: C333307

End Date: 4th Quarter 2008

Location: Salmon Bay

Neighborhood Plan: Crown Hill/Ballard

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This project will protect and restore the last undeveloped wooded shoreline area in Salmon Bay, and will improve the public's access to Ballard shoreline. The Salmon Bay Natural Area is the only remaining wooded shoreline in Ballard that provides refuge and rearing habitat for juvenile salmon as they migrate to Puget Sound. The project goal is to initiate restoration to improve shoreline habitat at the site. Another aspect of the project is to create opportunities to improve public access by building pedestrian paths and installing a public "viewing area" with interpretive signage. The interpretive signage captures the details of the unique natural and cultural history of the site, highlighting the importance of the area for salmon use, the historical alterations of the estuary, and present and historic Native American use of the area. Environmental restoration will continue for three or more years to control invasive species and establish native and other habitat-enhancing vegetation. The confidence level in the current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	516	10	106	83	0	0	0	0	715
Project Total:	516	10	106	83	0	0	0	0	715
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	516	10	106	83	0	0	0	0	715
Appropriations Total*	516	10	106	83	0	0	0	0	715
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		188	106	83	0	0	0	0	377

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

SPU - Drainage & Wastewater

Sanitary Sewer Overflow Capacity

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Investment

Start Date: 2nd Quarter 2002

Project ID: C302205

End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project identifies utility gaps in complying with proposed federal Sanitary Sewer Overflow (SSO) regulations and promotes programs and projects that improve collection system practices. Control of Fats, Oils, and Grease (FOG); developing an Overflow Emergency Response Plan; providing adequate conveyance capacity; and eliminating and mitigating SSOs via configuration management may be included as key priority goals for achieving collection system compliance.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	330	250	243	206	812	779	973	715	4,308
Project Total:	330	250	243	206	812	779	973	715	4,308
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	330	250	243	206	812	779	973	715	4,308
Appropriations Total*	330	250	243	206	812	779	973	715	4,308
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Seattle Housing Authority Integrated Drainage Plan

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Investment

Start Date: 1st Quarter 2006

Project ID: C363301

End Date: 4th Quarter 2010

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project provides stormwater treatment facilities to mitigate more than eight acres of new roadway in Southeast Seattle created as part of the Seattle Housing Authority's (SHA) low-income housing redevelopments, Rainier Vista and NewHolly Phase 3. The Seattle Municipal Code requires water quality treatment for runoff from new or replaced vehicular surfaces and allows off-site mitigation when approved by the SPU Director. SHA has agreed to reimburse the capital costs for SPU to identify and construct a water quality project or projects that provides equivalent or greater benefits to the Lake Washington drainage basin than facilities built at the project site. In 2006, Ordinance 122018 authorized SPU to enter into a Memorandum of Agreement with SHA to accept voluntary contributions for these stormwater treatment facilities.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	300	356	429	488	191	0	0	1,764
Project Total:	0	300	356	429	488	191	0	0	1,764
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	300	356	429	488	191	0	0	1,764
Appropriations Total*	0	300	356	429	488	191	0	0	1,764
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		75	356	429	488	191	0	0	1,539

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

2007-2012 Adopted Capital Improvement Program

SPU - Drainage & Wastewater

Security Improvements - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: Improved Facility	Start Date: 1st Quarter 2007
Project ID: C4113-DWF	End Date: 4th Quarter 2012

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project improves security and protection of SPU's Drainage & Wastewater facilities. Phase One, which focused primarily on water fund assets, is now substantially complete, with improvements at 23 SPU-occupied sites that substantially reduced risks at many of the most critical facilities. This project represents Phase Two, which extends this work to further sites and may include installation of key cards, an Integrated Security System, signage, electronic monitoring and security-related infrastructure improvements, as well as upgrades to key, fence, and communication systems. Currently, only 2007 is being budgeted, as SPU's Asset Management Committee will consider a detailed proposal in early 2007. DWF improvements may total \$4 million through 2012. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	615	0	0	0	0	0	615
Project Total:	0	0	615	0	0	0	0	0	615
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	615	0	0	0	0	0	615
Appropriations Total*	0	0	615	0	0	0	0	0	615
O & M Costs (Savings)			200	0	0	0	0	0	200

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

SPU - Drainage & Wastewater

Sediment Remediation - DRN

BCL/Program Name: Sediments
Project Type: New Investment
Project ID: C3501

BCL/Program Code: C350B
Start Date: 4th Quarter 2000
End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program provides drainage funding for preliminary studies and analysis of cleanup of contaminated sediment sites in which the City is a participant, for actual cleanup of contaminated sites, for preliminary engineering for future clean-up efforts, and for liability allocation negotiations. Funding is used to develop studies and analyses required by regulatory agencies for determining the boundaries and cleanup requirements for specific action sites. The study phase of sediment remediation projects often requires multiple years before specific cleanup actions are defined. As regulatory agency cleanup requirements become clear, additional individual cleanup projects are included in subsequent CIP proposals. This program supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	2,551	2,816	3,293	2,699	576	176	91	64	12,266
Project Total:	2,551	2,816	3,293	2,699	576	176	91	64	12,266
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	2,551	2,816	3,293	2,699	576	176	91	64	12,266
Appropriations Total*	2,551	2,816	3,293	2,699	576	176	91	64	12,266
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	3,293	2,699	576	176	91	64	6,899

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

SPU - Drainage & Wastewater

Sediment Remediation - WW

BCL/Program Name: Sediments
Project Type: New Investment
Project ID: C3502

BCL/Program Code: C350B
Start Date: 4th Quarter 2000
End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program provides wastewater funding for preliminary studies and analysis of cleanup of contaminated sediment sites in which the City is a participant, for actual clean-up of contaminated sites, for preliminary engineering for future cleanup efforts, and for liability allocation negotiations. Funding is used to develop studies and analyses required by regulatory agencies for determining the boundaries and cleanup requirements for specific action sites. The study phase of sediment remediation projects often requires multiple years before specific cleanup actions are defined. As regulatory agency cleanup requirements become clear, additional individual cleanup projects are included in subsequent CIP proposals. This program supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	2,877	985	1,374	1,041	223	118	60	43	6,720
Project Total:	2,877	985	1,374	1,041	223	118	60	43	6,720
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	2,877	985	1,374	1,041	223	118	60	43	6,720
Appropriations Total*	2,877	985	1,374	1,041	223	118	60	43	6,720
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	1,374	1,041	223	118	60	43	2,858

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SPU - Drainage & Wastewater

Sediment Survey

BCL/Program Name: Control Structures

BCL/Program Code: C310B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C307007

End Date: 4th Quarter 2008

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project will meet the National Pollutant Discharge Elimination System (NPDES) Permit requirement for development of a Sediment Survey Report. The Study may include a summary of sediment data and findings. SPU's Asset Management Committee will review and approve the project in 2006. The certainty of the cost estimate is a low confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	107	5	0	0	0	0	112
Project Total:	0	0	107	5	0	0	0	0	112
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	107	5	0	0	0	0	112
Appropriations Total*	0	0	107	5	0	0	0	0	112
O & M Costs (Savings)			0	0	0	0	0	0	0

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SPU - Drainage & Wastewater

Sewage System Modeling

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Investment

Start Date: 3rd Quarter 1998

Project ID: C3AA206

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project develops a system-wide model and methodology for forecasting sewer system performance. This facilitates sewer capacity assessment through a proactive approach to managing sewer capacity. The AMC was briefed about this project and has directed staff to develop a project development plan for approval by year end. The model will allow analysis of Seattle's entire sewer network, including its interaction with the King County System. This will eventually allow SPU to manage flows in the system with pump stations and gates to control combined sewer overflows more effectively and efficiently. It will help identify capacity problems that lead to sewer backup so that restrictions in the system can be eliminated. The confidence in the cost estimate for this project is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	764	225	40	40	85	81	101	74	1,410
Project Total:	764	225	40	40	85	81	101	74	1,410
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	764	225	40	40	85	81	101	74	1,410
Appropriations Total*	764	225	40	40	85	81	101	74	1,410
O & M Costs (Savings)			0	0	0	0	0	0	0

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SPU - Drainage & Wastewater

Sewer Emergency Rehabilitation

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 1998
Project ID: C3AA404 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program performs emergency rehabilitation of sewer lines that collapse, cause surface problems, or otherwise endanger public health or welfare. This program was reviewed as part of the overall Sewer Rehabilitation Programmatic Plan in May of 2005. The confidence level is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	3,201	500	677	560	472	478	582	427	6,898
Project Total:	3,201	500	677	560	472	478	582	427	6,898
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	3,201	500	677	560	472	478	582	427	6,898
Appropriations Total*	3,201	500	677	560	472	478	582	427	6,898
O & M Costs (Savings)			0	0	0	0	0	0	0

Sewer Full Line Replacements

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: Rehabilitation or Restoration **Start Date:** Ongoing
Project ID: C3202 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program replaces existing sewer lines citywide with pipes of the same diameter and capacity. Closed circuit television inspections identify defects in sewer mainlines. Each mainline defect is catalogued in an SPU database and assigned a priority that reflects the urgency of repair. SPU uses a criticality analysis as part of an asset management approach to evaluating life cycle costs.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	794	416	0	320	281	276	353	267	2,707
Project Total:	794	416	0	320	281	276	353	267	2,707
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	794	416	0	320	281	276	353	267	2,707
Appropriations Total*	794	416	0	320	281	276	353	267	2,707
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	0	320	281	276	353	267	1,497

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

SPU - Drainage & Wastewater

Small Landslide Projects

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: Improved Facility **Start Date:** 1st Quarter 2004
Project ID: C3325 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program provides for spot improvements in landslide-prone areas throughout Seattle. Typical improvements include installing berms, swales, catch basins, storm drains, subsurface drains, and small slope stability improvement projects. This program does not require SPU Asset Management Committee review as individual spot improvement projects do not exceed \$150,000. The cost estimates will be revised over time as projects are determined.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	766	409	578	469	708	777	364	1,089	5,159
Project Total:	766	409	578	469	708	777	364	1,089	5,159
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	766	409	578	469	708	777	364	1,089	5,159
Appropriations Total*	766	409	578	469	708	777	364	1,089	5,159
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	578	469	708	777	364	1,089	3,984

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

SPU - Drainage & Wastewater

Small Sewer Improvements

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: Improved Facility

Start Date: 1st Quarter 2003

Project ID: C303299

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project provides spot improvements and project development support for small-capacity sewer systems throughout Seattle, as well as other small projects related to wastewater. Typical improvements include rerouting of a sewer line or relocation of a maintenance hole. This project does not require SPU Asset Management Committee review as the spot improvements do not exceed \$250,000. The cost estimates will be revised over time as projects are determined.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	234	160	175	145	144	138	173	127	1,296
Project Total:	234	160	175	145	144	138	173	127	1,296
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	234	160	175	145	144	138	173	127	1,296
Appropriations Total*	234	160	175	145	144	138	173	127	1,296
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Sound Transit - DWF

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: New Facility

Start Date: 1st Quarter 2003

Project ID: C4104-DWF

End Date: 4th Quarter 2009

Location: Central & South areas of Seattle

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program relocates or replaces drainage and wastewater-related facilities affected by Sound Transit's Central Link project. Sound Transit proposes to construct an electrical light rail transit system that includes more than 14 miles of alignment from the Convention Place Station to South 154th Street near Seattle/Tacoma Airport. The City of Seattle, including SPU, has an ongoing agreement for partial reimbursement from Sound Transit. Seattle Public Utilities pays for water betterments that are being done in conjunction with the Sound Transit Central Link Project. Sound Transit Water Betterments are listed as a separate capital project in the SPU Water Fund CIP.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,303	768	435	130	29	0	0	0	2,665
Project Total:	1,303	768	435	130	29	0	0	0	2,665
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,303	768	435	130	29	0	0	0	2,665
Appropriations Total*	1,303	768	435	130	29	0	0	0	2,665
O & M Costs (Savings)			0	50	50	50	50	50	250
Spending Plan		870	435	130	29	0	0	0	1,464

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

SPU - Drainage & Wastewater

Sound Transit – University Link - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Facility	Start Date: 1st Quarter 2007
Project ID: C4110-DWF	End Date: 4th Quarter 2009

Location: North Seattle

Neighborhood Plan: In more than one Plan	Neighborhood Plan Matrix: Multiple
Neighborhood District: In more than one District	Urban Village: In more than one Urban Village

This program relocates or replaces drainage- and wastewater-related facilities affected by the extension of the Sound Transit Central Link light rail system to the University District.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	95	115	89	0	0	0	298
Project Total:	0	0	95	115	89	0	0	0	298
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	95	115	89	0	0	0	298
Appropriations Total*	0	0	95	115	89	0	0	0	298
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	95	115	89	0	0	0	298

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

SPU - Drainage & Wastewater

Sound Transit Integrated Drainage Plan

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C405001

End Date: 4th Quarter 2010

Location: South East Neighborhood District

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southeast

Urban Village: In more than one Urban Village

This project will construct off-site stormwater treatment facilities to meet the requirements in the Lake Washington basin of the Integrated Drainage Plan (IDP) agreed to by SPU and Sound Transit for the Sound Transit South Corridor Project. An IDP is an option in Seattle's code that substitutes on-site stormwater quality treatment with off-site stormwater quality treatment within a basin draining to the same receiving water body. Sound Transit has agreed to pay SPU the estimated cost of providing on-site treatment, and SPU has agreed to construct equivalent facilities off-site. SPU's Asset Management Committee reviewed this project in 2006. The confidence level in the current cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	6	300	242	348	495	491	0	0	1,882
Project Total:	6	300	242	348	495	491	0	0	1,882
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	6	300	242	348	495	491	0	0	1,882
Appropriations Total*	6	300	242	348	495	491	0	0	1,882
O & M Costs (Savings)			0	0	0	0	60	60	120
Spending Plan		70	242	348	495	491	0	0	1,646

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

SPU - Drainage & Wastewater

South Lake Union - DWF

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: Improved Facility

Start Date: 1st Quarter 2004

Project ID: C4114-DWF

End Date: 4th Quarter 2009

Location: South Lake Union

Neighborhood Plan: South Lake Union

Neighborhood Plan Matrix: N/A

Neighborhood District: Lake Union

Urban Village: South Lake Union

This project relocates or replaces drainage- and wastewater-related facilities affected by City-sponsored projects in the South Lake Union Area. Project work also includes flow modeling and development of green roofs. This effort identifies SPU drainage/wastewater system direct impacts, opportunities for system improvements, and cost responsibility. This project also funds planning-level coordination with other City departments on projects within the South Lake Union area. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	131	1,130	137	133	16	0	0	0	1,547
Project Total:	131	1,130	137	133	16	0	0	0	1,547
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	131	1,130	137	133	16	0	0	0	1,547
Appropriations Total*	131	1,130	137	133	16	0	0	0	1,547
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	137	133	16	0	0	0	286

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

SPU - Drainage & Wastewater

Spokane Street Viaduct - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C407023-DWF **End Date:** 4th Quarter 2011

Location: Spokane Street Viaduct

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: West Seattle Junction

This program relocates or replaces drainage- and wastewater-related facilities affected by improvements to the Spokane Street Viaduct. Seattle Department of Transportation is widening the Spokane Street Viaduct and adding new ramps. This work will require SPU to meet additional water quality requirements and code requirements.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	132	135	135	138	141	0	681
Project Total:	0	0	132	135	135	138	141	0	681
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	132	135	135	138	141	0	681
Appropriations Total*	0	0	132	135	135	138	141	0	681
O & M Costs (Savings)			0	0	50	50	50	50	200
Spending Plan		0	132	135	135	138	141	0	681

SR-520 Bridge Replacement - DWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C407021-DWF **End Date:** 4th Quarter 2020

Location: SR 520

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: University Campus

This program relocates or replaces drainage- and wastewater-related facilities affected by the Washington State Department of Transportation's replacement of the SR 520 floating bridge.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	132	135	135	138	141	145	825
Project Total:	0	0	132	135	135	138	141	145	825
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	132	135	135	138	141	145	825
Appropriations Total*	0	0	132	135	135	138	141	145	825
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	132	135	135	138	141	145	825

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

SPU - Drainage & Wastewater

Stormwater Mitigation Partnership Program

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353309

End Date: 4th Quarter 2010

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program supports innovative stormwater management improvements (e.g., low-impact development, new stormwater treatment technologies) by partnering with public and/or private entities. Additional funding for these improvements would come from the partnering entity and/or grants. The improvements would be owned and maintained by the partnering entity after SPU's monitoring and other data collection efforts are completed. All efforts must meet the legal nexus for use of drainage funds and provide sufficient benefit in improving the function and operation of SPU's drainage system. This project supports the Mayor's Restore Our Waters Initiative to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1	50	50	40	39	37	0	0	218
Project Total:	1	50	50	40	39	37	0	0	218
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1	50	50	40	39	37	0	0	218
Appropriations Total*	1	50	50	40	39	37	0	0	218
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Strategic Asset Management Plan - DRN

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: New Investment **Start Date:** 1st Quarter 2004
Project ID: C333507 **End Date:** 4th Quarter 2012

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project develops Strategic Asset Management Plans, which set the strategic framework for SPU. These plans are normally prepared looking forward for a five-year period. Plans are developed by analyzing an asset class and examining its life cycle cost, and they provide the basis for development of action plans that are updated annually.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	83	40	134	107	24	22	27	20	456
Project Total:	83	40	134	107	24	22	27	20	456
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	83	40	134	107	24	22	27	20	456
Appropriations Total*	83	40	134	107	24	22	27	20	456
O & M Costs (Savings)			0	0	0	0	0	0	0

Strategic Asset Management Plan - WW

BCL/Program Name: Wastewater Conveyance **BCL/Program Code:** C320B
Project Type: New Investment **Start Date:** 1st Quarter 2003
Project ID: C303204 **End Date:** 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project develops Strategic Asset Management Plans, which set the strategic framework for SPU. These plans are normally prepared looking forward for a five-year period. Plans are developed by analyzing an asset class and examining its life cycle cost, and they provide the basis for development of action plans that are updated annually.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	148	100	34	28	0	0	0	0	310
Project Total:	148	100	34	28	0	0	0	0	310
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	148	100	34	28	0	0	0	0	310
Appropriations Total*	148	100	34	28	0	0	0	0	310
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		100	34	28	0	0	0	0	162

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

SPU - Drainage & Wastewater

SW Prescott/Admiral Landslide

BCL/Program Name: Landslide Mitigation & Special Programs

BCL/Program Code: C335B

Project Type: New Facility

Start Date: 3rd Quarter 2002

Project ID: C302353

End Date: 4th Quarter 2009

Location: SW Admiral Wy./SW Spokane Wy.

Neighborhood Plan: Admiral

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Not in an Urban Village

This project investigates and develops a long-range plan to address flooding and slope instability problems in the SW Prescott Place/Admiral Way Landslide Mitigation Study area. The project includes researching historical information, drilling soil samples, performing slope stability analyses, and identifying and implementing solutions to problem areas. Currently nine landslide and three flooding areas have been identified in the study area. Three of the landslide problem areas in the study area are joint projects with the Seattle Department of Transportation (SDOT) and the Seattle Department of Parks and Recreation. See SDOT project TC36551 for more transportation-related information. There is a medium degree of confidence in the cost estimate. SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	611	485	1	294	6	0	0	0	1,396
Project Total:	611	485	1	294	6	0	0	0	1,396
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	611	485	1	294	6	0	0	0	1,396
Appropriations Total*	611	485	1	294	6	0	0	0	1,396
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Taylor Creek Culverts Phase 2

BCL/Program Name: Protection of Beneficial Uses

BCL/Program Code: C333B

Project Type: New Facility

Start Date: 4th Quarter 1999

Project ID: C399315

End Date: 4th Quarter 2010

Location: Taylor Creek/Rainier Ave. S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This project designs and constructs fish passage improvements at the culvert that conveys Taylor Creek under Rainier Avenue S. Currently, three different types of culverts make up the system under Rainier Avenue S: a short 42-inch diameter section crossing a 20-foot side street; a three-by-four-foot box culvert running under Rainier Avenue S.; and a corrugated metal culvert running under an adjacent apartment building. The points where these three culverts connect have eight- to 10-inch drops impeding fish passage. In addition, the culverts are velocity barriers during most rainstorms. Confidence in the cost estimate is medium. SPU's Asset Management Committee has approved the construction phase of the project. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	724	315	221	11	20	18	0	0	1,309
Project Total:	724	315	221	11	20	18	0	0	1,309
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	724	315	221	11	20	18	0	0	1,309
Appropriations Total*	724	315	221	11	20	18	0	0	1,309
O & M Costs (Savings)			6	6	6	6	6	0	30

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

SPU - Drainage & Wastewater

Thornton Creek Water Quality Channel Project

BCL/Program Name: Protection of Beneficial Uses	BCL/Program Code: C333B
Project Type: New Facility	Start Date: 4th Quarter 2004
Project ID: C343306	End Date: 4th Quarter 2011

Location: 5th Ave. NE

Neighborhood Plan: Northgate

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Northgate

This project includes preliminary engineering, design, and construction of a water quality facility on the south lot of Northgate Mall. The facility is located between 3rd and 5th Ave. NE and between NE 100th and NE 103rd St., and provides water quality treatment for public drainage. The project includes excavation of fill material and creation of a water quality channel for storm flow from the existing public drainage system under NE 100th St. at 3rd Ave. NE. The project also includes improvements to pedestrian access and landscaping. SPU's Asset Management Committee has approved the project. The confidence level of the current cost estimate is medium. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments. Ordinance 121548 created the project in 2004 and provided \$400,000 for property acquisition and closing costs. Ordinance 121547 appropriated \$6.8 million for project design and construction, for a total of \$7.2 million. The balance will be carried forward each year until it is spent. This year, \$3.4 in additional budget authority is being requested for this project, as shown in years 2007-2008.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,269	5,980	1,684	1,684	0	0	0	0	10,617
Project Total:	1,269	5,980	1,684	1,684	0	0	0	0	10,617
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,269	5,980	1,684	1,684	0	0	0	0	10,617
Appropriations Total*	1,269	5,980	1,684	1,684	0	0	0	0	10,617
O & M Costs (Savings)			0	0	0	71	71	0	142
Spending Plan		1,161	4,844	2,380	419	395	149	0	9,348

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

SPU - Drainage & Wastewater

Utility Relocation due to Alaskan Way Viaduct and Seawall Replacement - DWF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Facility	Start Date: 1st Quarter 2004
Project ID: C4102-DWF	End Date: 4th Quarter 2017

Location: SR 99 / Battery St.

Neighborhood Plan: In more than one Plan	Neighborhood Plan Matrix: Multiple
Neighborhood District: In more than one District	Urban Village: In more than one Urban Village

This project relocates, replaces, and protects drainage and wastewater related facilities affected by the replacement of the Alaskan Way Viaduct and Seawall Project with a new seawall and transportation facility. The Alaskan Way Viaduct is part of State Route 99, which carries 25% of the north-south traffic through downtown Seattle and is a major truck route serving the city's industrial areas. The seawall supports the soils under Alaskan Way and the Viaduct. Both facilities were damaged in the February 28, 2001, Nisqually Earthquake. In Resolution 30726, which was adopted in December 2004, the Mayor and City Council declared a tunnel as their preferred alternative for replacing the existing Viaduct. In September 2006, the City Council passed Ordinance 122246, which reaffirmed the tunnel as the preferred alternative. The Washington State Department of Transportation (WSDOT) is the lead for the project. SPU has substantial drainage and wastewater infrastructure along the approximately four-mile project corridor which must be relocated one or more times during the project. This project designs and constructs these relocations according to the transportation project scope and schedule. The estimated costs shown below are for drainage and wastewater system relocations and related service work from 2007-2012. Note that the project will likely extend to about 2016 with a total cost estimate for drainage and wastewater of over \$117 million. Given the early stage of the project it is anticipated that scope of work and budget estimates will change as the design progresses. SPU's Asset Management Committee has approved the project. See also the Alaskan Way Viaduct and Seawall Replacement project in the Seattle Department of Transportation and Utility Relocation Due to Alaskan Way Viaduct and Seawall Replacement projects in the CIPs for Seattle City Light and SPU Water.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,255	1,702	3,347	25,876	48,041	26,711	4,950	5,392	117,274
Project Total:	1,255	1,702	3,347	25,876	48,041	26,711	4,950	5,392	117,274
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,255	1,702	3,347	25,876	48,041	26,711	4,950	5,392	117,274
Appropriations Total*	1,255	1,702	3,347	25,876	48,041	26,711	4,950	5,392	117,274
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		2,241	3,347	25,876	48,041	26,711	4,950	5,392	116,558

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

SPU - Drainage & Wastewater

Venema Creek Natural Drainage System

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 1st Quarter 2003

Project ID: C302317

End Date: 4th Quarter 2012

Location: Venema Creek Drainage Basin

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northwest

Urban Village: Not in an Urban Village

This project reduces the stormwater runoff and pollutants from an approximately 113-acre sub-basin of Piper's Creek to protect downstream aquatic resources. The unimproved right-of-way is a starting point for design. The project scope includes: constructing an engineered system of swales or other design alternatives to detain runoff, filter pollutants, and allow maximum opportunity for infiltration; using native vegetation as a stormwater management element, as well as for aesthetic appeal; and constructing a sidewalk on one side of each that uses the Street Edge Alternatives (SEA) or Cascade design approach. Funding to operate and maintain the project is expected to be included in SPU's operating budget starting in 2011 although maintenance responsibility is shared along some of the project streets with property owners. Property owners and residents adjacent to the SEA street designs are expected to provide the majority of vegetation maintenance; however all maintenance of the Cascade design, which has higher volumes of water and few properties facing the system, is the responsibility of SPU. The confidence level for the current cost estimate is low. SPU's Asset Management Committee approval is required prior to the start of the design phase. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	486	405	309	363	184	795	45	33	2,619
Project Total:	486	405	309	363	184	795	45	33	2,619
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	486	405	309	363	184	795	45	33	2,619
Appropriations Total*	486	405	309	363	184	795	45	33	2,619
O & M Costs (Savings)			0	0	0	5	5	5	15
Spending Plan		200	309	363	184	795	45	33	1,928

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

SPU - Drainage & Wastewater

Wastewater Rehabilitation Evaluation

BCL/Program Name: Wastewater Conveyance	BCL/Program Code: C320B
Project Type: Rehabilitation or Restoration	Start Date: Ongoing
Project ID: C3AA401	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program plans upcoming sewer rehabilitation projects. This is done by investigating existing records, reports, and plans; obtaining field data from closed circuit television inspection; and reviewing flow monitoring data. The project team then develops alternatives and cost estimates and makes recommendations for work to be included in the annual rehab program. The team determines whether each project should be done as a no-dig, point rehab, or full line replacement project. This program will include the development of a decision model to prioritize wastewater rehab projects based on maximization of the benefit/cost ratio. This program goes through an annual review with the Asset Management Committee as part of the overall Sewer Rehabilitation Programmatic Plan. The confidence in the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,486	200	258	231	216	221	291	230	3,133
Project Total:	1,486	200	258	231	216	221	291	230	3,133
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,486	200	258	231	216	221	291	230	3,133
Appropriations Total*	1,486	200	258	231	216	221	291	230	3,133
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Drainage & Wastewater

Water Reuse - Stormwater

BCL/Program Name: Landslide Mitigation & Special Programs **BCL/Program Code:** C335B
Project Type: New Facility **Start Date:** 4th Quarter 2001
Project ID: C353308 **End Date:** 4th Quarter 2008

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project funds SPU's portion of the cost of rain barrels to be sold to the public. The project also helps to educate SPU's customers about options for reducing the amount of stormwater running into the City's drainage system from their properties, such as through downspout disconnection and landscape irrigation alternatives. Other benefits generated by the project include improvements in localized stormwater drainage, wastewater conveyance, and water conservation. Expenditures to date have supported development of large-building project elements such as a cistern for the new Seattle City Hall and the Carkeek Park Environmental Learning Center rainwater system. In the 2005-2010 Adopted CIP, the project was moved to the Protection of Beneficial Uses Budget Control Level, given the project's link with improving water quality.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	50	50	29	24	0	0	0	0	153
Project Total:	50	50	29	24	0	0	0	0	153
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	50	50	29	24	0	0	0	0	153
Appropriations Total*	50	50	29	24	0	0	0	0	153
O & M Costs (Savings)			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 in thousands of dollars.

SPU - Drainage & Wastewater

Water Reuse - Wastewater

BCL/Program Name: Wastewater Conveyance

BCL/Program Code: C320B

Project Type: New Facility

Start Date: 4th Quarter 2001

Project ID: C301203

End Date: 4th Quarter 2008

Location: Citywide/

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This pilot project disconnects residences from combined sewer systems and evaluates on-site methods of detention and infiltration of residential site stormwater. The project involves ten properties in the Fremont-Ballard neighborhood, with performance monitors on three of the properties per approved Water Quality Assurance Project Plan. The monitoring period extends through two wet seasons and includes flow and water quality parameters. This project was reviewed by SPU's Asset Management Committee in 2003. The confidence level in the current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	392	14	97	37	0	0	0	0	540
Project Total:	392	14	97	37	0	0	0	0	540
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	392	14	97	37	0	0	0	0	540
Appropriations Total*	392	14	97	37	0	0	0	0	540
O & M Costs (Savings)			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 in thousands of dollars.

SPU - Drainage & Wastewater

Watershed Base Creek Flow Control

BCL/Program Name: Low Impact Development

BCL/Program Code: C334B

Project Type: New Facility

Start Date: 1st Quarter 2005

Project ID: C353310

End Date: 4th Quarter 2011

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project develops concepts and preliminary engineering for improvements to stormwater flow control in targeted creeks at which operation of the City's drainage system has resulted in ecosystem degradation. Under this project, SPU identifies flow control techniques (such as natural drainage system elements, by-pass facilities, and detention), evaluates alternatives, and prepares cost-benefit analyses on identified alternatives. A benefit of these preliminary engineering efforts is identification of the most cost-effective capital project options while considering other objectives such as flood control, environmental, and economic benefits. The confidence level of the current cost estimate is medium. Proposed projects are subject to approval by SPU's Asset Management Committee. This project supports the Mayor's Restore Our Waters Strategy to improve Seattle's aquatic environments.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	35	150	71	112	472	147	179	0	1,166
Project Total:	35	150	71	112	472	147	179	0	1,166
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	35	150	71	112	472	147	179	0	1,166
Appropriations Total*	35	150	71	112	472	147	179	0	1,166
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		170	71	112	472	147	179	0	1,151

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

SPU - Drainage & Wastewater

Windermere Combined Sewer Overflow Storage

BCL/Program Name: Control Structures **BCL/Program Code:** C310B
Project Type: New Facility **Start Date:** 2nd Quarter 2002
Project ID: C302103 **End Date:** 4th Quarter 2012

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northeast

Urban Village: Not in an Urban Village

This project constructs facilities for Combined Sewer Overflow (CSO) reduction in the Windermere area. Major work includes a feasibility study for assessing potential coordination with King County, flow monitoring, system modeling, facility planning, preliminary engineering, design, permitting, and construction. The project schedule has been revised from the 2001 CSO Plan to account for project development; SPU's CSO Facility Retrofit project (C302102), which may reduce the size of the necessary facilities in this basin; and potential coordination with King County. This project is in a preliminary phase of development and cost estimates will be revised over time as the scope of the plan is clarified. This project has been approved by SPU's Asset Management Committee.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	816	325	1,055	566	3,864	3,698	198	35	10,556
Project Total:	816	325	1,055	566	3,864	3,698	198	35	10,556
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	816	325	1,055	566	3,864	3,698	198	35	10,556
Appropriations Total*	816	325	1,055	566	3,864	3,698	198	35	10,556
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,051	1,055	566	3,864	3,698	198	35	10,466

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

SPU - Drainage & Wastewater

Works Progress Administration Drains Study & Repair

BCL/Program Name: Landslide Mitigation & Special Programs	BCL/Program Code: C335B
Project Type: Rehabilitation or Restoration	Start Date: 3rd Quarter 2000
Project ID: C3315	End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program evaluates, prioritizes and makes necessary repairs on subsurface landslide control drains and tunnels installed as a result of extensive landslide damage during the winter of 1933-1934. The Works Progress Administration sponsored the construction of landslide mitigation projects at 29 sites around the city between 1935-1941. This program was one of the recommended activities from the Landslide Policy Paper adopted by the City Council in 1998. This program is in a preliminary phase of development and cost estimates will be revised over time as comprehensive site-specific evaluations are completed. SPU's Asset Management Committee has approved the programmatic approach.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	656	250	301	239	354	368	224	164	2,556
Project Total:	656	250	301	239	354	368	224	164	2,556
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	656	250	301	239	354	368	224	164	2,556
Appropriations Total*	656	250	301	239	354	368	224	164	2,556
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	301	239	354	368	224	164	1,650

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

**SPU -
SOLID WASTE**

Seattle Public Utilities – Solid Waste

Overview of Facilities and Programs

Seattle Public Utilities (SPU) is responsible for the collection and disposal of solid waste generated within the City of Seattle. The City-owned infrastructure used to accomplish this task consists of two recycling and disposal stations, two household hazardous waste facilities, and a fleet of trucks and heavy equipment. In addition, the Solid Waste Capital Improvement Plan (CIP) supports post-closure projects on two landfills previously used by the City.

The City's solid waste collection system consists of the South Recycling and Disposal Station (SRDS), located in the South Park area of the city, and the North Recycling and Disposal Station, located just north of the Lake Washington Ship Canal at Stone Way. The South Household Hazardous Waste facility is located on the same site as the SRDS, while the North Household Hazardous Waste facility is located at North 125th Street, adjacent to the City-owned Haller Lake shops.

Private contractors collect household refuse and recyclables and deliver the waste to the recycling and disposal stations for its ultimate disposal. Private contractors also collect the City's commercial waste and deliver some of that waste to the City's recycling and disposal stations. Self-haulers, private individuals, and small contractors can also deliver their own refuse to the stations. Once deposited at a station, the trash is processed through a large compaction machine and placed in a sealed shipping container. This container is hauled by solid waste fleet trucks to the Union Pacific Railhead where it is placed on a train. Six times a week, the trains carry the loaded containers to a privately-owned regional landfill in Eastern Oregon, where final disposal is accomplished. The trains return with empty containers to be refilled. Self-haulers may also bring their recyclables to the recycling and disposal stations. Materials are separated by the customer and placed in large bins. Once the bins are full, Solid Waste Field Operations personnel haul these bins to private recyclers for processing. Large goods (refrigerators, stoves, etc.) may also be brought to the stations for recycling. Customers can also bring unused pesticides, paints, and solvents to one of the two household hazardous waste sites. The City contracts with a private company to pick up and dispose of these materials. Seattle Public Utilities maintains a list of materials that are still useable and makes these items available to anyone who wants them.

The Solid Waste CIP is funded through solid waste rates and revenue bonds. Overhead costs for the CIP (such as rent and utilities) are currently budgeted in SPU's operating budget and then repaid as CIP expenditures are incurred.

Highlights

Facilities Master Plan Implementation: This project implements the Solid Waste CIP Facilities Master Plan, which guides the construction of facilities that provide the citizens of Seattle with sufficient recycling and solid waste services for the next 30 years. The plan sets objectives and defines options for rebuilding the City's solid waste transfer stations and household hazardous waste sheds; constructs a regional intermodal facility (to be the subject of a proviso pending further Council discussion); conducts cost and feasibility analyses of facility options; and determines a preferred approach to implementation. The scope, schedule, and costs of proposed projects are further defined following preliminary engineering and completion of additional State Environmental Policy Act (SEPA) evaluations. Costs include SEPA evaluations, permitting, property acquisition, design, construction, and purchase of facility equipment.

Midway Landfill Post-Closure Improvements: This project conducts post-closure capital improvements at the Midway Landfill, a 50-acre former gravel quarry located in Kent, Washington and operated by SPU from 1966 to 1983. The Washington State Department of Transportation (WSDOT) is undertaking a billion dollar project to widen Interstate 5 by two lanes on the west side. This state project impacts landfill post-closure infrastructure that is currently in place on the WSDOT right-of-way, and also requires SPU to remove refuse buried in the right-of-way. Project costs may change depending on negotiations underway between SPU and WSDOT. SPU and

Seattle Public Utilities – Solid Waste

WSDOT are working together on this project, which enters the construction phase in 2009, if WSDOT obtains funding for its highway project.

Project Selection Process

SPU has adopted an Asset Management approach for selecting which projects to build. This is a triple bottom line approach in which projects are evaluated on their economic, social and environmental benefits and their ability to meet customer service levels. The approach provides an elaborate analytical and modeling framework to find the most economic balance between capital investments and operation and maintenance expenditures so as to minimize life cycle costs of any facility.

The Asset Management Committee, a committee of senior SPU executives, reviews each project valued at \$250,000 or more and assures that only projects that meet the benefit criteria move forward. Several projects have been dropped, as their costs were higher than their benefits. Several cost-effective master planning efforts have been approved to create up-to-date improvement and upgrade plans for various groups of assets. Other projects have been expanded or expedited because their benefits exceed their costs.

Program Category Summaries

The Solid Waste Adopted CIP totals \$18.6 million in 2007 (including Technology projects funded by the Solid Waste Fund, displayed in a separate section of this CIP). It is comprised of four program categories as summarized below.

New Facilities: This program plans, designs, and constructs new facilities to enhance solid waste operations. In 2007, SPU continues implementation of its Solid Waste Facilities Master Plan.

Rehabilitation and Heavy Equipment: This program designs and constructs projects to repair and/or upgrade solid waste facilities and replaces aged heavy equipment.

Shared Cost Projects: This program includes capital improvement projects that receive funding from multiple SPU funds. In 2007 the program includes funding for Operational Facility improvements, the Operations Control Center Upgrade, Security Improvements, and Climate Protection.

Technology: This program makes use of recent technology advances to increase efficiency and productivity. Solid Waste-supported technology projects are shown grouped with other technology projects in the SPU Technology CIP section.

Anticipated Operating Expenses Associated with Capital Facilities Projects

For most projects in the Solid Waste CIP, there are minimal new 2007 operations and maintenance costs, or these costs have not been calculated (N/C). In these cases, the cost impacts of the projects are either insignificant or offset by cost savings realized by other projects.

City Council Provisos to the CIP

The Council adopted the following capital budget provisos:

No more than \$1,674,000 of the money appropriated for 2007 for the Seattle Public Utilities' Shared Cost Projects BCL may be spent for the Operational Facility Construction project (Project ID C4106), until authorized by a future ordinance.

Seattle Public Utilities – Solid Waste

No more than \$1,508,000 of the money appropriated for 2007 for the Seattle Public Utilities' Shared Cost Projects BCL may be spent for the Security Improvements project (Project ID C4113), until authorized by a future ordinance.

None of the money appropriated for 2007 for the Seattle Public Utilities' New Facilities BCL may be spent for a solid waste intermodal facility, or for design or construction of upgrades to the North or South transfer stations, until authorized by future ordinance. The Council anticipates that such authority will not be granted until SPU completes a re-evaluation of whether the intermodal facility and transfer station upgrades are needed.

No more than \$1,500,000 of the money appropriated in Seattle Public Utilities' New Facilities BCL may be spent to pay for planning of transfer station upgrades in the context of overall solid waste facility needs until authorized by future ordinance.

SPU - Solid Waste

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
New Facilities						BCL/Program Code:				C230B
Miscellaneous Station Improvements	C203005	344	515	123	110	0	0	0	0	1,092
New Facilities Development	C205308	21	25	27	27	30	32	34	36	230
Solid Waste Facility Master Plan -- Intermodal Transport Facility	C207004	0	500	7,900	18,000	30,000	13,135	5,495	0	75,030
Solid Waste Facility Master Plan -- North Transfer Station Rebuild	C207005	0	9,000	941	2,000	746	25,000	4,445	2,453	44,585
Solid Waste Facility Master Plan -- South Transfer Station Rebuild	C207006	0	500	4,500	14,030	25,000	4,658	4,024	0	52,712
South Park Development	C206402	0	0	617	8,484	4,371	0	0	0	13,472
South Recycling Disposal Station Household Hazardous Waste Relocation	C207002	0	0	246	720	743	0	0	0	1,710
New Facilities Total		365	10,540	14,354	43,371	60,889	42,825	13,998	2,489	188,831

*Amounts in thousands of dollars

2007-2012 Adopted Capital Improvement Program

SPU - Solid Waste

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Rehabilitation and Heavy Equipment						BCL/Program Code:				C240B
Disaster Debris Management Plan	C206401	0	0	102	52	0	0	0	0	154
Heavy Equipment Purchases - SWF	C201002	2,763	1,289	1,137	1,161	1,311	1,396	1,484	1,672	12,212
Historic Landfill Improvements	C206601	0	100	51	51	0	0	0	0	202
Household Hazard Waste Code Improvements	C205403	0	250	0	0	0	0	0	0	250
Kent Highlands 228th Roadway	C204003	173	200	0	0	0	0	0	0	373
Kent Highlands Agency Negotiations	C205406	88	50	51	53	55	56	58	60	471
Kent Highlands Flare Improvement	C205404	0	100	10	106	109	0	0	0	325
Kent Highlands N Pond Diversion	C205405	0	0	26	52	0	0	0	0	77
Kent Records Retention	C207001	0	0	30	83	0	0	0	0	113
Midway Agency Negotiations	C205407	36	50	15	26	27	56	29	30	270
Midway Flare Improvements	C207003	0	0	20	211	0	0	0	0	232
Midway Landfill Improvements	C203004	475	350	225	0	4,371	0	0	0	5,421
Rehab & Heavy Equipment Development	C205411	0	20	53	56	59	62	66	69	385
Solid Waste Security Improvements	C205402	5	100	103	0	0	0	0	0	208
Yard Waste Carts	C205412	2,057	0	0	0	1,230	0	0	0	3,287
Rehabilitation and Heavy Equipment Total		5,597	2,509	1,824	1,851	7,162	1,570	1,637	1,830	23,980

*Amounts in thousands of dollars

2007-2012 Adopted Capital Improvement Program

SPU - Solid Waste

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Shared Cost Projects						BCL/Program Code:				C410B
Climate Protection - SWF	C407S01-SWF	0	0	26	27	0	0	0	0	53
Operational Facility - Construction - SWF	C4106-SWF	679	618	382	130	285	292	271	278	2,935
Operational Facility - Other - SWF	C4115-SWF	0	135	82	32	28	29	0	0	306
Operations Control Center - SWF	C4105-SWF	83	477	181	37	145	15	0	0	938
Security Improvements - SWF	C4113-SWF	0	0	205	0	0	0	0	0	205
Shared Cost Projects Total		762	1,230	876	226	458	336	271	278	4,437
Department Total		6,724	14,279	17,053	45,448	68,510	44,731	15,906	4,597	217,248

*Amounts in thousands of dollars

2007-2012 Adopted Capital Improvement Program

SPU - Solid Waste

Fund Summary

Fund Name	LTD	2006	2007	2008	2009	2010	2011	2012	Total
SPU Solid Waste Fund	6,724	14,279	17,053	45,448	68,510	44,731	15,906	4,597	217,248
Department Total	6,724	14,279	17,053	45,448	68,510	44,731	15,906	4,597	217,248

Note: Additional allocations for the SPU Solid Waste Fund are shown in the SPU - Technology section of this document.

**Amounts in thousands of dollars*

2007-2012 Adopted Capital Improvement Program

SPU - Solid Waste

Climate Protection - SWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Investment **Start Date:** 1st Quarter 2007
Project ID: C407S01-SWF **End Date:** 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project researches the impact of climate change on the solid waste system, and identifies adaptations or additional system resiliency that may be required. The effort is part of the Mayor's Environmental Action Agenda, which includes a City commitment to meet or beat Kyoto greenhouse gas emission targets. The Office of Sustainability & Environment leads the Citywide effort.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	0	26	27	0	0	0	0	53
Project Total:	0	0	26	27	0	0	0	0	53
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	0	26	27	0	0	0	0	53
Appropriations Total*	0	0	26	27	0	0	0	0	53
O & M Costs (Savings)			7	0	0	0	0	0	7

Disaster Debris Management Plan

BCL/Program Name: Rehabilitation and Heavy Equipment **BCL/Program Code:** C240B
Project Type: Improved Facility **Start Date:** 4th Quarter 2006
Project ID: C206401 **End Date:** 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project funds the development of a current citywide disaster debris management plan. Currently there is not an effective plan for debris management in the event of a large emergency. Federal grant funds have been requested to develop a current plan. The scope of the plan will depend on grant funding levels and grant requirements.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	0	102	52	0	0	0	0	154
Project Total:	0	0	102	52	0	0	0	0	154
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	0	102	52	0	0	0	0	154
Appropriations Total*	0	0	102	52	0	0	0	0	154
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		100	102	52	0	0	0	0	254

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

SPU - Solid Waste

Heavy Equipment Purchases - SWF

BCL/Program Name: Rehabilitation and Heavy Equipment	BCL/Program Code: C240B
Project Type: New Investment	Start Date: Ongoing
Project ID: C201002	End Date: Ongoing

Location:

Neighborhood Plan: Not in a Neighborhood Plan	Neighborhood Plan Matrix: N/A
Neighborhood District: Not in a Neighborhood District	Urban Village: Not in an Urban Village

This project replaces heavy equipment (such as loaders, bulldozers, road tractors and trailers) used at SPU's North and South Recycling and Disposal Stations and funds the purchase of new equipment adds. The project also funds retrofitting of existing equipment to meet SPU operational needs and initiatives.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	2,763	1,289	1,137	1,161	1,311	1,396	1,484	1,672	12,212
Project Total:	2,763	1,289	1,137	1,161	1,311	1,396	1,484	1,672	12,212
Fund Appropriations/Allocations									
SPU Solid Waste Fund	2,763	1,289	1,137	1,161	1,311	1,396	1,484	1,672	12,212
Appropriations Total*	2,763	1,289	1,137	1,161	1,311	1,396	1,484	1,672	12,212
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,047	1,137	1,161	1,311	1,396	1,484	1,672	9,207

Historic Landfill Improvements

BCL/Program Name: Rehabilitation and Heavy Equipment	BCL/Program Code: C240B
Project Type: Improved Facility	Start Date: 1st Quarter 2006
Project ID: C206601	End Date: 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan	Neighborhood Plan Matrix: N/A
Neighborhood District: Not in a Neighborhood District	Urban Village: Not in an Urban Village

This project funds the research and evaluation of possible measures to reduce environmental impacts at old historic landfills in the city. The confidence in the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	100	51	51	0	0	0	0	202
Project Total:	0	100	51	51	0	0	0	0	202
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	100	51	51	0	0	0	0	202
Appropriations Total*	0	100	51	51	0	0	0	0	202
O & M Costs (Savings)			13	13	13	13	13	13	78
Spending Plan		140	51	51	0	0	0	0	242

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

SPU - Solid Waste

Household Hazard Waste Code Improvements

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2006

Project ID: C205403

End Date: 4th Quarter 2006

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This project funds anticipated upgrades to the City's solid waste facilities required by new state regulations on facilities that handle moderate-risk waste. The Washington State Department of Ecology has given the Seattle-King County Public Health Department the local authority to implement these regulations. SPU works with the Health Department to identify necessary improvements to the City's facilities. The confidence in the cost estimate is medium. This project may potentially carryover into 2007.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	250	0	0	0	0	0	0	250
Project Total:	0	250	0	0	0	0	0	0	250
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	250	0	0	0	0	0	0	250
Appropriations Total*	0	250	0	0	0	0	0	0	250
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Solid Waste

Kent Highlands 228th Roadway

BCL/Program Name: Rehabilitation and Heavy Equipment	BCL/Program Code: C240B
Project Type: Improved Facility	Start Date: 1st Quarter 2004
Project ID: C204003	End Date: 4th Quarter 2006

Location: 228th St. S

Neighborhood Plan: Not in a Neighborhood Plan	Neighborhood Plan Matrix: N/A
Neighborhood District: Not in a Neighborhood District	Urban Village: Not in an Urban Village

This project funds the required design work associated with an agreement between the City of Seattle and the City of Kent to relocate the existing Kent Highlands Landfill leachate force main. SPU has agreed in principle to complete the design at SPU's expense, while the City of Kent funds the construction. This relocation is necessitated by Kent's 228th Street road construction project. Additional project elements include evaluation of the capacity of the existing pump station, replacement of the aging structure, and the abandonment of three existing gas extraction wells on property being transferred to the City of Kent. The confidence in the cost estimate is medium. The project to replace the leachate pump station has been approved by SPU's Asset Management Committee. This project may potentially carryover into 2007.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	173	200	0	0	0	0	0	0	373
Project Total:	173	200	0	0	0	0	0	0	373
Fund Appropriations/Allocations									
SPU Solid Waste Fund	173	200	0	0	0	0	0	0	373
Appropriations Total*	173	200	0	0	0	0	0	0	373
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		245	0	0	0	0	0	0	245

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

SPU - Solid Waste

Kent Highlands Agency Negotiations

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2005

Project ID: C205406

End Date: Ongoing

Location: 23076 Military Rd. S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project funds required environmental and feasibility studies to evaluate the effectiveness of the closure of the Kent Highlands Landfill. These efforts and regulatory agency negotiations are required under an existing Consent Order with the Washington State Department of Ecology. The outcome of these efforts may lead to validation that the current environmental controls are sufficient, or require additional remedial actions. If these efforts are successful, the result is avoided unnecessary capital expenditures or new operations and maintenance expenses. The confidence in the cost estimate is medium. SPU's Asset Management Committee has approved the project concept, although additional briefings may occur.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	88	50	51	53	55	56	58	60	471
Project Total:	88	50	51	53	55	56	58	60	471
Fund Appropriations/Allocations									
SPU Solid Waste Fund	88	50	51	53	55	56	58	60	471
Appropriations Total*	88	50	51	53	55	56	58	60	471
O & M Costs (Savings)			25	25	25	25	25	25	150

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

SPU - Solid Waste

Kent Highlands Flare Improvement

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2006

Project ID: C205404

End Date: 4th Quarter 2009

Location: 23076 Military Rd. S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project funds the required design and construction work associated with the continued operation of the gas flare facility at the Kent Highlands Landfill. As gas flows decrease naturally over time, modifications are necessary to continue operating the flare facility. The original equipment was sized for the gas flows in 1993 and SPU is approaching the limits of system components for decreased flows. Anticipated work elements over time include blower replacement, connection to natural gas for supplemental fuel, and flare replacement. These improvements begin sequentially in 2006. The vacuum pumps are replaced in 2006. Recent modifications to the flares may defer flare replacement until 2008/2009. The confidence in the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	100	10	106	109	0	0	0	325
Project Total:	0	100	10	106	109	0	0	0	325
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	100	10	106	109	0	0	0	325
Appropriations Total*	0	100	10	106	109	0	0	0	325
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		60	10	106	109	0	0	0	285

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

SPU - Solid Waste

Kent Highlands N Pond Diversion

BCL/Program Name: Rehabilitation and Heavy Equipment **BCL/Program Code:** C240B
Project Type: Improved Facility **Start Date:** 1st Quarter 2007
Project ID: C205405 **End Date:** 4th Quarter 2008

Location: 23076 Military Rd. S

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project is designed to divert water from the Kent Highlands North Pond to surface waters via the Green River, avoiding costly discharge to the King County Metro sewer. Subsequent investigations have indicated that this discharge is not as significant as earlier assumed. SPU will continue to monitor Kent Highlands North Pond while the diversion is on hold.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	0	26	52	0	0	0	0	77
Project Total:	0	0	26	52	0	0	0	0	77
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	0	26	52	0	0	0	0	77
Appropriations Total*	0	0	26	52	0	0	0	0	77
O & M Costs (Savings)			0	0	(25)	(25)	(25)	(25)	-100

Kent Records Retention

BCL/Program Name: Rehabilitation and Heavy Equipment **BCL/Program Code:** C240B
Project Type: Improved Facility **Start Date:** 1st Quarter 2007
Project ID: C207001 **End Date:** 4th Quarter 2008

Location: 23076 Military Rd. S

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project funds the required planning, design, and construction work associated with developing a location to maintain the required Superfund Administrative Record for the clean-ups at Midway and Kent Highlands. Currently the records are not centralized in a secure location. Part of the planning may identify the best storage strategy for this enormous volume of files. The confidence in the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	0	30	83	0	0	0	0	113
Project Total:	0	0	30	83	0	0	0	0	113
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	0	30	83	0	0	0	0	113
Appropriations Total*	0	0	30	83	0	0	0	0	113
O & M Costs (Savings)			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 in thousands of dollars.

SPU - Solid Waste

Midway Agency Negotiations

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2005

Project ID: C205407

End Date: Ongoing

Location: 24808 Pacific Hwy. S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project funds required environmental and feasibility studies to evaluate the effectiveness of the closure of the Midway Landfill. These efforts and regulatory agency negotiations are required under an existing Consent Order with the Washington State Department of Ecology. The outcome of these efforts may lead to validation that the current environmental controls are sufficient or identify the need for additional remedial actions. If these efforts are successful, the result is avoiding unnecessary capital expenditures or new operations and maintenance expenses. The confidence in the cost estimate is medium. SPU's Asset Management Committee has approved the project concept, although additional briefings may occur.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	36	50	15	26	27	56	29	30	270
Project Total:	36	50	15	26	27	56	29	30	270
Fund Appropriations/Allocations									
SPU Solid Waste Fund	36	50	15	26	27	56	29	30	270
Appropriations Total*	36	50	15	26	27	56	29	30	270
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		15	15	26	27	56	29	30	199

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

SPU - Solid Waste

Midway Flare Improvements

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2007

Project ID: C207003

End Date: 4th Quarter 2008

Location: 24808 Pacific Hwy S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project funds the required design and construction work associated with the continued operation of the gas flare facility at the Midway Landfill. As gas flows decrease naturally over time, modifications are necessary to continue operating the flare facility. The original equipment was sized for the gas flows in 1989 and retrofitted in 2003. We anticipate that by 2008 we may again be approaching the limits of system components for decreased flows. By 2008 we may be adding natural gas to the system in order to maintain combustion. Alternatives to flaring may be researched during this project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	0	20	211	0	0	0	0	232
Project Total:	0	0	20	211	0	0	0	0	232
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	0	20	211	0	0	0	0	232
Appropriations Total*	0	0	20	211	0	0	0	0	232
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Solid Waste

Midway Landfill Improvements

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2003

Project ID: C203004

End Date: 4th Quarter 2009

Location: 24808 Pacific Hwy. S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project funds post-closure capital improvements at the Midway Landfill, a 50-acre former gravel quarry located in Kent, Washington and operated by SPU from 1966 to 1983. The Washington State Department of Transportation (WSDOT) is undertaking a billion dollar project to widen Interstate 5 by two lanes on the west side. This state project impacts landfill post-closure infrastructure that is currently in place on the WSDOT right-of-way, and also requires SPU to remove refuse buried in the right-of-way. Project costs below are estimated, and may change depending on negotiations underway between SPU and WSDOT. SPU and WSDOT are working together on this project, which enters the construction phase in 2009, if WSDOT obtains funding for its highway project. This project is in a preliminary phase of development and cost estimates may be revised over time. Additional delays are likely for the construction phase of the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	475	350	225	0	4,371	0	0	0	5,421
Project Total:	475	350	225	0	4,371	0	0	0	5,421
Fund Appropriations/Allocations									
SPU Solid Waste Fund	475	350	225	0	4,371	0	0	0	5,421
Appropriations Total*	475	350	225	0	4,371	0	0	0	5,421
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		400	225	0	4,371	0	0	0	4,996

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

2007-2012 Adopted Capital Improvement Program

SPU - Solid Waste

Miscellaneous Station Improvements

BCL/Program Name: New Facilities	BCL/Program Code: C230B
Project Type: Improved Facility	Start Date: 4th Quarter 2003
Project ID: C203005	End Date: 4th Quarter 2008

Location: 1350 N 34th St. & Second Ave. S

Neighborhood Plan: Not in a Neighborhood Plan	Neighborhood Plan Matrix: N/A
Neighborhood District: Not in a Neighborhood District	Urban Village: Not in an Urban Village

This project funds short-term actions to ensure that the City’s existing Recycling & Disposal Stations continue to function reliably, pending implementation of the Solid Waste Facilities Master Plan (C204002). The work includes emergency electrical service relocation to maintain safe and reliable power, fuel system control reconfiguration, development of a misting system at the South Recycling & Disposal Station, transfer station electrical improvements, transfer station drainage improvements, installation of acoustical insulation, water line and hydrant replacement, South Household Hazardous Waste entry relocation, and other facility improvements necessary to keep the stations operational and safe. The project also includes installation of electric trucking gates, an important security element as SPU does more trucking in off-peak hour periods. Other work is anticipated through 2008.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	344	515	123	110	0	0	0	0	1,092
Project Total:	344	515	123	110	0	0	0	0	1,092
Fund Appropriations/Allocations									
SPU Solid Waste Fund	344	515	123	110	0	0	0	0	1,092
Appropriations Total*	344	515	123	110	0	0	0	0	1,092
O & M Costs (Savings)			0	0	5	5	5	5	20
Spending Plan		385	123	110	0	0	0	0	618

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

SPU - Solid Waste

New Facilities Development

BCL/Program Name: New Facilities **BCL/Program Code:** C230B
Project Type: Improved Facility **Start Date:** 1st Quarter 2005
Project ID: C205308 **End Date:** Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project supports the development of Solid Waste New Facility improvements through the preparation of Project Development Plans. Project proposals, including supporting cost-benefit analyses, are reviewed and approved by SPU's Capital Planning Committee. Staff then develop a Project Development Plan for approval by SPU's Asset Management Committee. Documentation is prepared and budget implications are identified. The confidence in the cost estimate is medium. SPU's Asset Management Committee may review new individual project proposals as they occur.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	21	25	27	27	30	32	34	36	230
Project Total:	21	25	27	27	30	32	34	36	230
Fund Appropriations/Allocations									
SPU Solid Waste Fund	21	25	27	27	30	32	34	36	230
Appropriations Total*	21	25	27	27	30	32	34	36	230
O & M Costs (Savings)			0	0	0	0	0	0	0

Operational Facility - Construction - SWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** Ongoing
Project ID: C4106-SWF **End Date:** Ongoing

Location: Multiple

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** Not in an Urban Village

This program funds facility construction improvements for operational facilities within the city limits that support SPU management, operations and maintenance business functions, workforce, material and equipment. Sub-projects within this program will go to SPU's Asset Management Committee for approval. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	679	618	382	130	285	292	271	278	2,935
Project Total:	679	618	382	130	285	292	271	278	2,935
Fund Appropriations/Allocations									
SPU Solid Waste Fund	679	618	382	130	285	292	271	278	2,935
Appropriations Total*	679	618	382	130	285	292	271	278	2,935
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		680	382	130	285	292	271	278	2,318

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

SPU - Solid Waste

Operational Facility - Other - SWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2006
Project ID: C4115-SWF **End Date:** Ongoing

Location: Multiple

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This program funds non-construction improvements such as studies, assessments, planning, design, and purchases for operational facility assets within the city limits. In 2011-2012 SPU is planning to focus improvements on Water-funded projects but that could be changed over time as projects are determined. Sub-projects within this program will go to SPU's Asset Management Committee for approval.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	135	82	32	28	29	0	0	306
Project Total:	0	135	82	32	28	29	0	0	306
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	135	82	32	28	29	0	0	306
Appropriations Total*	0	135	82	32	28	29	0	0	306
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		136	82	32	28	29	0	0	307

Operations Control Center - SWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2003
Project ID: C4105-SWF **End Date:** 4th Quarter 2010

Location: 2700 Airport Way S/Forest/Lander

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Greater Duwamish **Urban Village:** Not in an Urban Village

This program rehabilitates, replaces and constructs new improvements at the Operations Control Center complex to support the business needs of SPU's operational work force. Sub-projects within this program will go to the Asset Management Committee for approval.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	83	477	181	37	145	15	0	0	938
Project Total:	83	477	181	37	145	15	0	0	938
Fund Appropriations/Allocations									
SPU Solid Waste Fund	83	477	181	37	145	15	0	0	938
Appropriations Total*	83	477	181	37	145	15	0	0	938
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		455	181	37	145	15	0	0	833

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SPU - Solid Waste

Rehab & Heavy Equipment Development

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2006

Project ID: C205411

End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project supports development of rehabilitation and heavy equipment improvements identified through Project Development Plans. Project proposals, including cost-benefit analyses, are reviewed and approved by SPU's Capital Planning Committee. Staff then develops a Project Development Plan for approval by SPU's Asset Management Committee. Extensive documentation and budget implications are included. The confidence in the cost estimate is medium. SPU's Asset Management Committee has approved the project concept, although additional briefings may occur.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	20	53	56	59	62	66	69	385
Project Total:	0	20	53	56	59	62	66	69	385
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	20	53	56	59	62	66	69	385
Appropriations Total*	0	20	53	56	59	62	66	69	385
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		15	53	56	59	62	66	69	380

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SPU - Solid Waste

Security Improvements - SWF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2007
Project ID: C4113-SWF **End Date:** 4th Quarter 2012

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project improves security and protection of SPU's Solid Waste facilities. Phase one, which focused primarily on water fund assets, is now substantially complete, with improvements at 23 SPU-occupied sites that substantially reduced risks at many of the most critical facilities. This project represents phase two, which extends this work to further sites and may include installation of key cards, an Integrated Security System, signage, electronic monitoring and security-related infrastructure improvements, as well as upgrades to key, fence and communication systems. Currently, only 2007 is being budgeted, as SPU's Asset Management Committee will consider a detailed proposal in early 2007. SWF improvements may total \$1.3 million through 2012. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	0	205	0	0	0	0	0	205
Project Total:	0	0	205	0	0	0	0	0	205
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	0	205	0	0	0	0	0	205
Appropriations Total*	0	0	205	0	0	0	0	0	205
O & M Costs (Savings)			200	0	0	0	0	0	200

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SPU - Solid Waste

Solid Waste Facility Master Plan -- Intermodal Transport Facility

BCL/Program Name: New Facilities	BCL/Program Code: C230B
Project Type: New Facility	Start Date: 1st Quarter 2006
Project ID: C207004	End Date: 4th Quarter 2012

Location: Unknown

Neighborhood Plan: In more than one Plan **Neighborhood Plan Matrix:** Multiple

Neighborhood District: In more than one District **Urban Village:** In more than one Urban Village

This project implements the Solid Waste CIP Facilities Master Plan (formerly C201006) by building a new solid waste intermodal transfer facility. The facility will ensure the City maintains the capability to ship non-recyclable waste out of the City in an economically, environmentally, and socially responsible manner. Costs include permitting, property acquisition, business relocations, design, construction, and facility equipment. The confidence level in the cost estimate is medium as the project is in the pre-engineering phase. SPU's Asset Management Committee has approved the site selection, property acquisitions, contracting options, and engineering design concept of this project. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	500	7,900	18,000	30,000	13,135	5,495	0	75,030
Project Total:	0	500	7,900	18,000	30,000	13,135	5,495	0	75,030
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	500	7,900	18,000	30,000	13,135	5,495	0	75,030
Appropriations Total*	0	500	7,900	18,000	30,000	13,135	5,495	0	75,030
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Solid Waste

Solid Waste Facility Master Plan -- North Transfer Station Rebuild

BCL/Program Name: New Facilities

BCL/Program Code: C230B

Project Type: New Facility

Start Date: 1st Quarter 2006

Project ID: C207005

End Date: 4th Quarter 2012

Location: 1350 N. 34th

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Lake Union

Urban Village: In more than one Urban Village

This project implements the Solid Waste CIP Facilities Master Plan (formerly C201006) by replacing the existing North Recycling and Disposal Station with a new transfer station on the existing parcel. It also includes adjacent parcels for the development of a new recycling facility, station office, and other municipal facilities. The confidence level in the cost estimate is medium as the project is in the pre-engineering phase. SPU's Asset Management Committee has approved the site selection, property acquisitions, contracting options, and engineering design concept of this project. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	9,000	941	2,000	746	25,000	4,445	2,453	44,585
Project Total:	0	9,000	941	2,000	746	25,000	4,445	2,453	44,585
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	9,000	941	2,000	746	25,000	4,445	2,453	44,585
Appropriations Total*	0	9,000	941	2,000	746	25,000	4,445	2,453	44,585
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Solid Waste

Solid Waste Facility Master Plan -- South Transfer Station Rebuild

BCL/Program Name: New Facilities	BCL/Program Code: C230B
Project Type: New Facility	Start Date: 1st Quarter 2006
Project ID: C207006	End Date: 4th Quarter 2012

Location: 8100 Second Ave. S.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This project implements the Solid Waste CIP Facilities Master Plan (formerly C201006) by replacing the existing South Recycling and Disposal Station with a new station. The new facility will include additional property for recycling, employee facilities, office, and other municipal functions. The confidence level in the cost estimate is medium as the project is in the pre-engineering phase. SPU's Asset Management Committee has approved the site selection, property acquisitions, contracting options, and engineering design concept of this project. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	500	4,500	14,030	25,000	4,658	4,024	0	52,712
Project Total:	0	500	4,500	14,030	25,000	4,658	4,024	0	52,712
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	500	4,500	14,030	25,000	4,658	4,024	0	52,712
Appropriations Total*	0	500	4,500	14,030	25,000	4,658	4,024	0	52,712
O & M Costs (Savings)			0	0	0	0	0	0	0

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SPU - Solid Waste

Solid Waste Security Improvements

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: Improved Facility

Start Date: 1st Quarter 2005

Project ID: C205402

End Date: 4th Quarter 2007

Location: 8100 2nd Ave. S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project funds selected security enhancements recommended in the Solid Waste Vulnerability Assessment. Given the status of work on the Facilities Master Plan Implementation project, SPU does not anticipate implementing all of the recommended improvements at all of the facilities. SPU will focus on several of the recommendations that are either critical, or have a relatively high return on investment in the next several years. Specific projects that are likely include improvements to the scale houses to improve employee safety from robbery, and repairs and modifications to the perimeter fencing at the transfer stations. Other possible improvements are additional security measures at the landfills and other satellite facilities not included in the Facilities Master Plan.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	5	100	103	0	0	0	0	0	208
Project Total:	5	100	103	0	0	0	0	0	208
Fund Appropriations/Allocations									
SPU Solid Waste Fund	5	100	103	0	0	0	0	0	208
Appropriations Total*	5	100	103	0	0	0	0	0	208
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		66	103	0	0	0	0	0	169

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2007-2012 Adopted Capital Improvement Program

SPU - Solid Waste

South Park Development

BCL/Program Name: New Facilities
Project Type: Improved Facility
Project ID: C206402

BCL/Program Code: C230B
Start Date: 2nd Quarter 2006
End Date: 4th Quarter 2009

Location: 8100 2nd Ave. S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: South Park

This project funds the required studies, planning, design and construction work associated with the closure of the South Park Landfill project to minimize environmental impacts of the old landfill and may allow future development of higher uses on the site. Currently this landfill is largely owned by Sea Con LLC and the timing and scope of this project are driven by the Solid Waste Facilities Master Plan property acquisition. Preliminary property acquisition discussions with Sea Con have begun. The confidence in the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	0	617	8,484	4,371	0	0	0	13,472
Project Total:	0	0	617	8,484	4,371	0	0	0	13,472
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	0	617	8,484	4,371	0	0	0	13,472
Appropriations Total*	0	0	617	8,484	4,371	0	0	0	13,472
O & M Costs (Savings)			0	0	0	300	300	300	900
Spending Plan		150	617	8,484	4,371	0	0	0	13,622

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2007-2012 Adopted Capital Improvement Program

SPU - Solid Waste

South Recycling Disposal Station Household Hazardous Waste Relocation

BCL/Program Name: New Facilities

BCL/Program Code: C230B

Project Type: Improved Facility

Start Date: 1st Quarter 2007

Project ID: C207002

End Date: 4th Quarter 2009

Location: 8105 5th Ave. S

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

The Solid Waste Facility Master Plan envisions replacing the existing South Recycling Disposal Station (SRDS). As a result, the existing South Household Hazardous Waste (SHHW) facility which is co-located with SRDS may need to be relocated. Other site redevelopment efforts may be significantly constrained if the existing facility remained in its current location. In addition, SHHW may require some facility improvements. Retrofitting the existing facility may cost more than complete replacement because engineering costs for facility retrofits are significantly higher. The timing of this investment is dependent on implementation of the Master Plan and redevelopment of the south transfer station property.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	0	0	246	720	743	0	0	0	1,710
Project Total:	0	0	246	720	743	0	0	0	1,710
Fund Appropriations/Allocations									
SPU Solid Waste Fund	0	0	246	720	743	0	0	0	1,710
Appropriations Total*	0	0	246	720	743	0	0	0	1,710
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Solid Waste

Yard Waste Carts

BCL/Program Name: Rehabilitation and Heavy Equipment

BCL/Program Code: C240B

Project Type: New Investment

Start Date: 1st Quarter 2005

Project ID: C205412

End Date: 4th Quarter 2010

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project purchases the remaining value of yard waste carts and commercial containers in the event that SPU engages new contractors for solid waste collection. Requests for proposals are under development for solid waste collection contracts which expire March 31, 2009. This project anticipates the purchase of the remaining value of yard waste carts as well as commercial containers for these new contracts. SPU will decide how to address container acquisition as it prepares to execute new collection contracts.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Solid Waste Rates	2,057	0	0	0	1,230	0	0	0	3,287
Project Total:	2,057	0	0	0	1,230	0	0	0	3,287
Fund Appropriations/Allocations									
SPU Solid Waste Fund	2,057	0	0	0	1,230	0	0	0	3,287
Appropriations Total*	2,057	0	0	0	1,230	0	0	0	3,287
O & M Costs (Savings)			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 in thousands of dollars.*

**SPU -
TECHNOLOGY
PROJECTS**

SPU - Technology Projects

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Technology								BCL/Program Code:		C510B
Administrative - Technology	C5301	3,030	690	822	1,329	33	220	509	0	6,633
Business Intelligence - Technology	C5302	2,124	2,451	2,373	2,420	1,847	607	170	290	12,282
Customer Relationship Management - Technology	C5303	6,540	2,174	2,146	1,849	2,746	2,208	792	638	19,093
Enterprise Project Management - Technology	C5304	1,048	700	1,897	1,281	1,292	0	0	0	6,218
Fund Placeholders - Technology	C5305	0	0	0	0	2,286	6,672	9,568	10,428	28,954
Information Management - Technology	C5306	6,832	1,108	1,959	2,903	1,948	1,255	718	0	16,723
Monitor & Control Management - Technology	C5307	508	265	348	42	0	0	0	0	1,163
Technology Infrastructure - Technology	C5308	7,971	1,635	1,094	346	786	618	114	928	13,492
Work Management - Technology	C5309	1,662	294	461	1,114	808	331	339	232	5,241
Technology Total		29,715	9,317	11,100	11,284	11,746	11,911	12,210	12,516	109,799
Department Total		29,715	9,317	11,100	11,284	11,746	11,911	12,210	12,516	109,799

*Amounts in thousands of dollars

2007-2012 Adopted Capital Improvement Program

SPU - Technology Projects

Fund Summary

Fund Name	LTD	2006	2007	2008	2009	2010	2011	2012	Total
SPU Drainage and Wastewater Fund	9,366	3,605	3,810	3,971	3,953	4,052	4,155	4,257	37,169
SPU Solid Waste Fund	5,399	1,418	1,569	1,226	1,633	1,546	1,584	1,625	16,000
SPU Water Fund	14,950	4,294	5,721	6,087	6,160	6,313	6,471	6,634	56,630
Department Total	29,715	9,317	11,100	11,284	11,746	11,911	12,210	12,516	109,799

Note: Additional allocations for the SPU Drainage and Wastewater Fund are shown in the SPU - Technology section of this document.

**Amounts in thousands of dollars*

2007-2012 Adopted Capital Improvement Program

SPU - Technology Projects

Administrative - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: Ongoing
Project ID: C5301	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program funds technology improvements to support the management of SPU's business as a department. Major projects include Engineering Support Contract Payments Technology Refresh (an update to the system that tracks payments to construction contractors), CrewTime Replacement (Labor and Equipment - a time reporting application for field crews), and SPU's share of an upgrade to Summit, the City's core accounting system.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	850	189	230	336	6	77	221	0	1,909
Solid Waste Rates	629	89	113	215	7	44	45	0	1,142
Water Rates	1,551	412	479	778	20	99	243	0	3,582
Project Total:	3,030	690	822	1,329	33	220	509	0	6,633
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	850	189	230	336	6	77	221	0	1,909
SPU Solid Waste Fund	629	89	113	215	7	44	45	0	1,142
SPU Water Fund	1,551	412	479	778	20	99	243	0	3,582
Appropriations Total*	3,030	690	822	1,329	33	220	509	0	6,633
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		651	822	1,329	33	220	509	0	3,564

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

SPU - Technology Projects

Business Intelligence - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: Ongoing
Project ID: C5302	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program develops tools that pull together data from SPU's major operational systems to inform management decisions. Major projects include the Science Data Management System, an Asset Information Management System Development Program, and Utility GIS (Geographic Information Systems) Applications Replacement.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,024	854	745	708	648	253	33	33	4,298
Solid Waste Rates	340	487	439	140	176	36	37	154	1,809
Water Rates	760	1,110	1,189	1,572	1,023	318	100	103	6,175
Project Total:	2,124	2,451	2,373	2,420	1,847	607	170	290	12,282
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,024	854	745	708	648	253	33	33	4,298
SPU Solid Waste Fund	340	487	439	140	176	36	37	154	1,809
SPU Water Fund	760	1,110	1,189	1,572	1,023	318	100	103	6,175
Appropriations Total*	2,124	2,451	2,373	2,420	1,847	607	170	290	12,282
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		2,043	2,373	2,420	1,847	607	170	290	9,750

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

SPU - Technology Projects

Customer Relationship Management - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: Ongoing
Project ID: C5303	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program builds systems to manage billing, customer contact, and customer information. Major projects include SPU's share of the BANNER upgrade (the utility billing system shared by SPU and City Light), a drainage billing system, and a customer self service system.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	2,284	1,175	1,330	1,541	971	745	295	162	8,503
Solid Waste Rates	1,922	417	271	125	764	692	187	172	4,550
Water Rates	2,334	582	545	183	1,011	771	310	304	6,040
Project Total:	6,540	2,174	2,146	1,849	2,746	2,208	792	638	19,093
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	2,284	1,175	1,330	1,541	971	745	295	162	8,503
SPU Solid Waste Fund	1,922	417	271	125	764	692	187	172	4,550
SPU Water Fund	2,334	582	545	183	1,011	771	310	304	6,040
Appropriations Total*	6,540	2,174	2,146	1,849	2,746	2,208	792	638	19,093
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		2,026	2,146	1,849	2,746	2,208	792	638	12,405

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SPU - Technology Projects

Enterprise Project Management - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: 1st Quarter 2005
Project ID: C5304	End Date: 4th Quarter 2009

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

There is currently only one project in this category: the Project Tracking System, which is aimed at providing SPU with the comprehensive information it needs to effectively manage its portfolio of capital projects in a single, coherent repository. This information includes such things as the list of projects planned and underway, component tasks for each project, budget and schedule estimates, and actual cost and schedule for completed work.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	430	224	607	410	413	0	0	0	2,084
Solid Waste Rates	105	70	190	128	129	0	0	0	622
Water Rates	513	406	1,100	743	750	0	0	0	3,512
Project Total:	1,048	700	1,897	1,281	1,292	0	0	0	6,218
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	430	224	607	410	413	0	0	0	2,084
SPU Solid Waste Fund	105	70	190	128	129	0	0	0	622
SPU Water Fund	513	406	1,100	743	750	0	0	0	3,512
Appropriations Total*	1,048	700	1,897	1,281	1,292	0	0	0	6,218
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,200	1,897	1,281	1,292	0	0	0	5,670

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SPU - Technology Projects

Fund Placeholders - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: 1st Quarter 2009
Project ID: C5305	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program sets aside funds for currently unanticipated technology investments in 2009-2012, in recognition that technologies and technology demands continue to evolve and have a shorter life cycle than do public works investments. Funds are spent only after development of specific projects in the 2009-2010 biennial budget.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	0	0	0	0	963	2,456	3,467	3,706	10,592
Solid Waste Rates	0	0	0	0	0	376	1,155	1,222	2,753
Water Rates	0	0	0	0	1,323	3,840	4,946	5,500	15,609
Project Total:	0	0	0	0	2,286	6,672	9,568	10,428	28,954
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	0	0	0	0	963	2,456	3,467	3,706	10,592
SPU Solid Waste Fund	0	0	0	0	0	376	1,155	1,222	2,753
SPU Water Fund	0	0	0	0	1,323	3,840	4,946	5,500	15,609
Appropriations Total*	0	0	0	0	2,286	6,672	9,568	10,428	28,954
O & M Costs (Savings)			0	0	0	0	0	0	0

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SPU - Technology Projects

Information Management - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: Ongoing
Project ID: C5306	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program improves SPU's infrastructure for storage and retrieval of business information, including spatial information and documents. Major projects include Document Management, Internal Web Management Upgrade, and Engineering Vault Automation.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,984	333	422	653	518	298	117	0	4,325
Solid Waste Rates	710	145	311	448	313	221	135	0	2,283
Water Rates	4,138	630	1,226	1,802	1,117	736	466	0	10,115
Project Total:	6,832	1,108	1,959	2,903	1,948	1,255	718	0	16,723
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,984	333	422	653	518	298	117	0	4,325
SPU Solid Waste Fund	710	145	311	448	313	221	135	0	2,283
SPU Water Fund	4,138	630	1,226	1,802	1,117	736	466	0	10,115
Appropriations Total*	6,832	1,108	1,959	2,903	1,948	1,255	718	0	16,723
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		691	1,959	2,903	1,948	1,255	718	0	9,474

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SPU - Technology Projects

Monitor & Control Management - Technology

BCL/Program Name: Technology	BCL/Program Code: C510B
Project Type: New Investment	Start Date: 1st Quarter 2005
Project ID: C5307	End Date: 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

Systems developed in this program directly interface with utility infrastructure, either to control it or to provide real-time information about its state. Major projects include Laboratory Management, a Materials Lab Information Management System, and a Backflow Database.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	13	16	33	14	0	0	0	0	76
Solid Waste Rates	4	5	10	4	0	0	0	0	23
Water Rates	491	244	305	24	0	0	0	0	1,064
Project Total:	508	265	348	42	0	0	0	0	1,163
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	13	16	33	14	0	0	0	0	76
SPU Solid Waste Fund	4	5	10	4	0	0	0	0	23
SPU Water Fund	491	244	305	24	0	0	0	0	1,064
Appropriations Total*	508	265	348	42	0	0	0	0	1,163
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		571	348	42	0	0	0	0	961

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SPU - Technology Projects

Technology Infrastructure - Technology

BCL/Program Name: Technology **BCL/Program Code:** C510B
Project Type: New Investment **Start Date:** Ongoing
Project ID: C5308 **End Date:** Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program funds technology improvements that support SPU's business systems. Major projects include a Utility GIS Technology Refresh, Business Continuity Enhancements, and Connectivity Management.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	1,925	610	308	74	158	126	22	356	3,579
Solid Waste Rates	1,452	189	168	68	165	128	25	77	2,272
Water Rates	4,594	836	618	204	463	364	67	495	7,641
Project Total:	7,971	1,635	1,094	346	786	618	114	928	13,492
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	1,925	610	308	74	158	126	22	356	3,579
SPU Solid Waste Fund	1,452	189	168	68	165	128	25	77	2,272
SPU Water Fund	4,594	836	618	204	463	364	67	495	7,641
Appropriations Total*	7,971	1,635	1,094	346	786	618	114	928	13,492
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,502	1,094	346	786	618	114	928	5,388

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SPU - Technology Projects

Work Management - Technology

BCL/Program Name: Technology **BCL/Program Code:** C510B
Project Type: New Investment **Start Date:** Ongoing
Project ID: C5309 **End Date:** Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program funds development of new technologies that improve the efficiency and effectiveness of SPU's front-line workers. Major projects include a Maximo Upgrade, Field Operations Mobile Computing, and Vehicle Location Technology Implementation.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Drainage and Wastewater Rates	856	204	135	235	276	97	0	0	1,803
Solid Waste Rates	237	16	67	98	79	49	0	0	546
Water Rates	569	74	259	781	453	185	339	232	2,892
Project Total:	1,662	294	461	1,114	808	331	339	232	5,241
Fund Appropriations/Allocations									
SPU Drainage and Wastewater Fund	856	204	135	235	276	97	0	0	1,803
SPU Solid Waste Fund	237	16	67	98	79	49	0	0	546
SPU Water Fund	569	74	259	781	453	185	339	232	2,892
Appropriations Total*	1,662	294	461	1,114	808	331	339	232	5,241
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		783	461	1,114	808	331	339	232	4,068

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SPU - WATER

Overview of Facilities and Programs

Seattle Public Utilities (SPU) operates the City-owned water system serving a population of approximately 1.3 million people in a 450-square-mile area. The system extends from Edmonds to Des Moines and from Puget Sound to Lake Joy near Duvall. SPU retails water in Seattle and adjacent areas, and sells wholesale to 26 suburban water utilities for distribution of water to their customers. SPU's Capital Improvement Program (CIP) is the vehicle for upgrading and expanding water infrastructure as well as constructing projects that protect, conserve, and enhance the region's environmental resources. The overriding goal of the CIP is to assure that the water system is properly upgraded and expanded to reliably deliver high-quality, safe drinking water to customers, protect the environment, and comply with regulations.

The Utility's financial policies (adopted in 2005) call for cash contributions to the CIP averaging 20% of total CIP costs over any given rate period. The remaining portion of the CIP is bond funded. Overhead costs for the CIP are budgeted in the SPU operating fund and are reimbursed as CIP expenditures are incurred.

Highlights

- **Open Distribution System Reservoirs:** To comply with water quality regulations and to enhance water system security, the City plans to cover all of its drinking-water reservoirs over the next several years. Two reservoirs, Bitter Lake and Lake Forest Park, have already been covered with floating covers. The Lincoln Reservoir/Cal Anderson Park project is complete. Design work for the replacement of Beacon, Myrtle, West Seattle, and Maple Leaf reservoirs commenced in 2005, and construction began on the Beacon and Myrtle Reservoir projects in 2006 with completion of the project by the end of 2008. Construction of a new buried reservoir to replace West Seattle Reservoir will begin in 2008 with completion of the project by the end of 2010. The construction of Maple Leaf Reservoir's replacement is scheduled to begin in 2011 and end in 2013. SPU currently plans to decommission Roosevelt Reservoir, and further evaluate the possibility of decommissioning Volunteer Reservoir as well. However, specific actions at these two reservoirs are expected to occur after 2011.
- **Cedar River Watershed Habitat Conservation Plan (HCP):** In 2000, after seven years of intensive study and negotiation with state, federal, and tribal authorities, the City entered into a 50-year habitat conservation plan on the Cedar River Watershed. This agreement commits the City to certain projects and management practices to mitigate the environmental impact of drinking water diversions. Major HCP components include investments in fisheries enhancement projects such as the Landsburg Fish Passage Improvements, which was completed in 2004. The remaining large fisheries enhancement project within the Cedar HCP Program is the Cedar Sockeye Hatchery, which has been delayed at least a year as it undergoes appeal of its Environmental Impact Statement. Other HCP projects within the municipal watershed include culvert improvements and other stream restoration work, removal of logging roads and restoration of forest and lands. Research and monitoring are also being conducted in association with many of these projects. Approximately \$30 million is included in the 2007-2012 Adopted CIP for these projects.

Project Selection Process

SPU has adopted an Asset Management approach for selecting projects to build. This is a triple bottom line approach in which projects are evaluated on their economic, social and environmental benefits, and their ability to meet customer service levels. The approach provides an elaborate analytical and modeling framework to find the most economical balance between capital investments and operation and maintenance expenditures so as to minimize the life cycle costs of any facility.

The Asset Management Committee (AMC), a committee of senior SPU executives, reviews each project valued at \$250,000 or more and assures that only projects that meet the benefit criteria move forward. Several projects have been dropped, as their costs were higher than their benefits. Several cost-effective master planning efforts were

Seattle Public Utilities – Water

approved to create up-to-date improvement and upgrade plans for several groups of assets. Other projects have been expanded or expedited because their benefits exceed their costs.

Program Category Summaries

The Adopted Water CIP totals \$110 million in 2007 (including Technology projects funded by the Water Fund, displayed in a separate section of this CIP). The CIP is comprised of eight program categories, which are summarized below.

Distribution: Projects and programs in this program category relate to repairs and upgrades to the City's water lines, pump stations, and other facilities that are part of the distribution system (serving only retail customers).

Habitat Conservation Program: This program category includes projects and programs directly related to implementation of the Cedar River Watershed Habitat Conservation Plan. Projects are grouped into eight areas of focus: road improvements and decommissioning; stream and riparian restoration; upland forest restoration; Landsburg fish passage improvements; Cedar sockeye hatchery; Ballard Locks improvements; downstream fish habitat; and Cedar permanent dead storage evaluations.

Shared Cost Projects: This program includes capital improvement projects that receive funding from multiple SPU funds. In 2007, the program includes funding for the Utility Relocation due to the Alaskan Way Tunnel & Seawall Project, Operational Facility Improvements, the Operations Control Center Upgrade, Security Improvements, and Sound Transit Light Rail.

Technology: This program category makes use of recent technology advances to increase efficiency and productivity. Water-supported technology projects are shown grouped with technology projects supported by SPU's other fund sources.

Transmission: The purpose of this program category is to repair and upgrade the City's large transmission pipelines that bring untreated water to the treatment facilities, and convey water from the treatment facilities to Seattle and its suburban wholesale customers' distribution systems.

Water Quality & Treatment: The purpose of this program category is to design, construct, and repair water treatment facilities, and remaining open water reservoirs. This program also manages the delivery of drinking water quality and treatment services to meet customer and environmental service levels and to comply with state and federal drinking water regulations.

Water Resources: The purpose of this program category is to plan for and produce untreated water to meet anticipated demands at our supply reliability standard, and promote residential and commercial water conservation.

Watershed Stewardship: Projects and programs in this program category provide environmental protection, sustain the environment, and enhance environmental quality, both locally and regionally. Several of the projects are implemented in response to the listing of the Chinook salmon as a threatened species under the Endangered Species Act.

Seattle Public Utilities – Water

Anticipated Operating Expenses Associated with Capital Facilities Projects

For most projects in the Water CIP, there are no new 2007 operations and maintenance costs, or these costs have not been calculated (N/C). In these cases, the cost impacts of the project are either insignificant or are offset by cost savings realized by other projects.

City Council Provisos to the CIP

The Council adopted the following capital budget provisos:

No more than \$1,674,000 of the money appropriated for 2007 for the Seattle Public Utilities' Shared Cost Projects BCL may be spent for the Operational Facility Construction project (Project ID C4106), until authorized by a future ordinance.

No more than \$1,508,000 of the money appropriated for 2007 for the Seattle Public Utilities' Shared Cost Projects BCL may be spent for the Security Improvements project (Project ID C4113), until authorized by a future ordinance.

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Distribution								BCL/Program Code:		C110B
Asset Management	C1126	2,790	1,317	259	251	263	272	324	278	5,754
Aurora Ave. N (110th - 145th)	C103033	0	16	8	0	0	0	0	0	24
Aurora N Multi-modal Corridor	C103027	544	156	27	0	0	0	0	0	727
Cathodic Protection Program	C1116	1,489	731	843	407	342	326	519	178	4,835
Cedar River Pipeline 2 Replace Portion	C104013	68	217	316	0	0	0	0	0	601
Chamber Upgrades - Distribution	C103002	442	124	121	115	158	163	195	167	1,485
Distribution System In-Line Gate Valves	C199012	440	62	60	58	63	65	78	67	894
Fireflow & Pressure Improvements	C1128	181	580	561	142	1,053	1,087	1,297	1,111	6,012
Hidden Lake CSO Betterments	C104066	13	188	446	0	0	0	0	0	647
Hidden Lake CSO Impact Work	C104067	23	271	293	217	0	0	0	0	804
Multiple Utility Relocation	C1205	0	976	612	530	526	544	649	555	4,392
Painting Program - Myrtle Tank	C104031	54	127	56	5	373	360	0	0	975
Painting Program - Richmond Highland	C104032	64	1,571	5	5	535	535	0	0	2,715
Painting Program - Steel Structures	C1NW130	0	103	52	251	474	544	649	555	2,627
Pump Station - Install Station Motors	C199052	358	90	60	66	74	76	91	78	893
Pump Station - Queen Anne	C1AA005	355	3,018	5,102	727	0	0	0	0	9,203
Seismic Upgrade - Pipeline Backbone	C101038	400	103	51	684	1,369	326	0	0	2,933
Seismic Upgrade - Tanks	C1120	1,075	1,591	3,510	1,460	0	0	649	0	8,285
Water Infrastructure - Hydrant Replacement/Relocation	C1110	1,311	233	163	158	242	250	298	255	2,912
Water Infrastructure - New Hydrants	C1112	177	12	105	108	13	13	16	13	457

**Amounts in thousands of dollars*

2007-2012 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Distribution			BCL/Program Code:							C110B
Water Infrastructure - New Taps	C1113	21,607	3,708	5,474	4,276	4,633	4,784	5,708	4,888	55,078
Water Infrastructure - Service Renewal	C1109	32,727	5,315	6,099	5,345	5,580	5,763	7,265	6,221	74,313
Water Infrastructure - Watermain Extensions	C1111	1,339	1,030	1,167	1,126	1,053	1,087	1,297	1,111	9,210
Watermain Rehabilitation	C1129	1,115	2,369	1,118	171	4,211	4,349	5,189	4,443	22,966
WSDOT Sound Walls	C104019	7	0	149	53	0	0	0	0	209
Distribution Total		66,579	23,908	26,658	16,156	20,962	20,544	24,222	19,919	218,948
Habitat Conservation Program			BCL/Program Code:							C160B
Ballard Locks Improvements	C1606	940	155	76	74	54	435	0	0	1,734
Cedar Sockeye Hatchery	C1605	2,418	242	5,407	3,042	0	0	0	0	11,109
Downstream Fish Habitat	C1607	349	1,527	2,517	2,798	336	16	0	0	7,543
Instream Flow Management Studies	C1608	232	623	571	423	290	123	0	0	2,261
Landsburg Fish Passage Monitoring	C1604	193	226	268	252	3	0	0	0	942
Stream & Riparian Restoration	C1602	2,938	890	955	711	685	531	761	568	8,040
Upland Reserve Forest Restoration	C1603	3,267	887	831	696	594	613	861	671	8,420
Watershed Road Improvement/Decommissioning	C1601	4,411	890	940	824	781	811	824	715	10,196
Habitat Conservation Program Total		14,748	5,440	11,565	8,820	2,743	2,529	2,447	1,955	50,246

*Amounts in thousands of dollars

2007-2012 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Shared Cost Projects						BCL/Program Code:				C410B
Climate Protection - WF	C407S01-WF	0	0	154	164	0	0	0	0	318
Heavy Equipment Purchases - WF	C4116-WF	10,661	2,934	3,848	1,542	1,438	4,349	4,469	901	30,142
I-5 Pavement Reconstruction - WF	C407022-WF	0	0	132	135	135	138	141	145	825
Integrated Control Monitoring Program - WF	C4108-WF	13,681	2,383	3,876	2,705	877	679	57	29	24,286
Meter Replacement - WF	C4101-WF	1,455	718	574	579	560	574	588	603	5,651
Operational Facility - Construction - WF	C4106-WF	1,956	2,085	1,508	924	2,159	1,551	1,513	1,551	13,247
Operational Facility - Other - WF	C4115-WF	47	789	676	261	338	589	113	116	2,929
Operations Control Center - WF	C4105-WF	542	3,153	1,193	250	996	104	0	0	6,238
Regional Facility - WF	C4107-WF	4	261	1,232	494	3,309	2,470	566	0	8,336
Security Improvements - WF	C4113-WF	6,636	0	2,196	0	0	0	0	0	8,832
Sound Transit – Airport Link - WF	C4111-WF	0	0	63	27	0	0	0	0	90
Sound Transit – University Link - WF	C4110-WF	0	0	49	59	46	0	0	0	154
Sound Transit - Water Betterment	C405430	437	2,200	410	420	754	883	1,018	1,044	7,166
Sound Transit - WF	C4104-WF	3,002	2,026	612	206	15	0	0	0	5,861
South Lake Union - WF	C4114-WF	171	72	150	99	16	0	0	0	508
Spokane Street Viaduct - WF	C407023-WF	0	0	132	135	135	138	141	0	681
SR-520 Bridge Replacement - WF	C407021-WF	0	0	132	135	135	138	141	145	825
Utility Relocation due to Alaskan Way Viaduct and Seawall Replacement - WF	C4102-WF	365	765	2,117	7,621	8,122	2,961	2,985	3,264	28,200
Shared Cost Projects Total		38,957	17,386	19,052	15,756	19,034	14,574	11,734	7,797	144,290

**Amounts in thousands of dollars*

2007-2012 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Transmission						BCL/Program Code:				C120B
I-405 Widening Cedar River Pipelines Impacts	C105096	8	46	39	61	0	0	0	0	155
Maple Leaf Gatehouse Pipe Refurbishing	C195001	74	10	254	0	0	0	0	0	338
Marine View/Des Moines Creek	C197021	248	31	5	5	0	0	0	0	289
Purveyor Meters Replace - SPU	C1107	78	103	147	126	105	109	130	111	909
Renton Franchise/Line Valve Cedar River	C102023	1,987	15	45	0	0	0	0	0	2,047
Replace Air Valve Chambers	C199060	395	64	64	70	65	67	80	69	875
Seismic Upgrade - Cedar River Pipelines at Ginger Creek	C197032	443	1,973	5	0	0	0	0	0	2,421
Tolt Pipeline 2 II & III East of Tieline	C100084	28,224	33	11	6	11	11	0	0	28,296
Tolt Pipeline 2 II & III West of Tieline	C100083	26,413	5	1	4	0	0	0	0	26,423
Tolt Pipeline I - Phase 3 - B	C199003	5,110	9	6	6	2	2	3	0	5,138
Tolt Pipeline II - Phase 4	C194029	28,735	43	8	0	0	0	0	0	28,786
Transmission Pipelines Rehabilitation	C1127	31	103	679	523	737	761	1,297	1,111	5,242
Water Design Standards & Guideline Program	C102028	185	258	275	251	0	0	0	0	969
Water System Dewatering	C1105	110	58	34	14	158	163	195	167	898
Transmission Total		92,041	2,751	1,574	1,066	1,078	1,113	1,705	1,457	102,786

*Amounts in thousands of dollars

2007-2012 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Water Quality & Treatment						BCL/Program Code:				C140B
Cedar Treatment Facility	C196015	93,501	10	454	0	0	0	0	0	93,965
Reservoir Covering - Beacon	C101060	1,957	8,799	18,490	8,700	1,900	0	0	0	39,846
Reservoir Covering - Maple Leaf	C101078	433	2	14	0	300	396	17,347	29,341	47,833
Reservoir Covering - Myrtle	C101076	1,107	2,695	6,720	300	0	0	0	0	10,822
Reservoir Covering - Volunteer	C101059	0	0	0	0	0	50	100	750	900
Reservoir Covering - West Seattle	C101075	435	284	730	7,143	14,747	5,823	0	0	29,162
Treatment Facility/Water Quality Improvements	C107018	0	0	106	153	158	163	195	167	942
Water Quality Equipment	C107020	0	0	166	0	0	0	0	0	166
Water Quality & Treatment Total		97,433	11,790	26,680	16,296	17,105	6,432	17,642	30,258	223,635

*Amounts in thousands of dollars

2007-2012 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Water Resources						BCL/Program Code:				C150B
Cedar Moraine Improvements	C197009	1,026	474	1,396	1,044	5	5	0	0	3,951
Lake Youngs Outlet Dam Warning System	C101006	984	41	10	0	0	0	0	0	1,035
Landsburg Flood Passage Improvements	C104016	174	410	758	486	63	0	0	0	1,891
Morse Lake Dead Storage Facilities	C103032	634	927	1,847	910	8,423	11,710	1,297	0	25,748
Regional Water Conservation Program	C1504	2,629	3,657	3,731	3,697	4,211	4,186	2,594	611	25,317
Seattle Direct Service Additional Conservation	C1505	930	1,018	1,918	1,816	1,684	1,739	39	0	9,144
Tolt Instrument and Warning Upgrade	C1AA012	214	47	179	100	32	30	38	32	672
Water Resources Project Development	C105100	73	103	102	102	105	109	130	111	834
Water System Plan - 2007	C103058	487	399	25	0	0	0	0	0	911
Water System Plan - 2013	C113001	0	0	0	0	46	98	389	333	867
Water Resources Total		7,152	7,076	9,966	8,155	14,570	17,877	4,487	1,087	70,370

*Amounts in thousands of dollars

2007-2012 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Watershed Stewardship						BCL/Program Code:				C130B
BPA - Aquatic & Riparian Restoration	C1303	686	600	305	3	0	0	0	0	1,595
BPA - Road Decommissioning/Improvements	C1304	783	282	137	167	58	0	0	0	1,427
BPA - Security Measures	C1305	550	255	35	45	11	11	0	0	906
BPA - Upland Forest Restoration	C1306	222	390	395	242	26	27	32	0	1,334
Cedar Bridges	C1307	7,351	422	1,176	186	105	179	226	0	9,646
Cedar Falls – Railroad Hazardous Material Remediation	C100078	166	0	62	50	5	0	0	0	284
Cedar River - Boundary Land Acquisition	C198008	2,310	104	102	91	106	110	131	112	3,066
Cedar River - Education Center Exhibits	C103001	641	155	53	0	0	0	0	0	849
Cedar River Non-HCP Road Improvements	C191001	4,382	828	830	764	716	739	1,012	866	10,137
Cedar River Watershed & Wildlife Information Management System	C107001	0	0	42	193	0	0	0	0	235
Cedar River Watershed Limited Use Area Management Plan	C107002	0	0	104	40	0	0	0	0	144
Cedar River Watershed Management System	C107006	0	0	199	87	0	0	0	0	286
Cedar River Watershed Northridge Trail	C102022	33	11	23	0	0	0	0	0	67
Cedar River Watershed Resource Information Management	C107005	0	0	207	104	0	0	0	0	311
Endangered Species Act Chinook Research & Monitoring	C101048	826	230	259	0	0	0	0	0	1,315
Endangered Species Act Snohomish River Basin	C101003	267	21	45	43	53	65	0	0	494

**Amounts in thousands of dollars*

2007-2012 Adopted Capital Improvement Program

SPU - Water

Project Summary

BCL/Program Name & Project	Project ID	Life To	2006	2007	2008	2009	2010	2011	2012	Total
Watershed Stewardship						BCL/Program Code:				C130B
Endangered Species Act Tolt Levee Modifications	C105095	181	258	1,247	734	21	22	0	0	2,463
Environmental Steward Project Development	C105084	17	103	97	107	105	109	130	111	778
Kerriston Road Mitigation	C107017	0	0	75	201	211	217	259	222	1,185
Lake Youngs Management Plan	C107003	0	0	156	0	53	54	65	56	383
Muckleshoot Agreement Implementation Plan	C107016	0	0	626	201	105	0	0	0	932
Restoration Thinning/Treatment	C107019	0	0	223	115	91	94	0	0	522
Rock Creek Fishway	C101008	179	115	1,640	66	0	0	0	0	2,000
South Fork Tolt Large Woody Debris Replacement	C104057	87	44	3	28	53	48	65	0	327
Tolt Bridges	C1308	223	22	6	81	263	0	0	0	595
Tolt River Watershed Road Improvements	C196007	1,383	175	177	173	126	130	156	133	2,454
Tolt Watershed Management Plan	C105083	69	206	219	2	0	0	0	0	497
Watershed Emergency/Opportunity	C107004	0	0	207	201	211	217	0	0	836
Watershed Vegetation Management Plan	C107015	0	0	103	49	37	38	26	0	252
Watershed Stewardship Total		20,357	4,221	8,751	3,972	2,356	2,061	2,102	1,501	45,320
Department Total		337,267	72,572	104,246	70,222	77,846	65,131	64,338	63,974	855,595

*Amounts in thousands of dollars

2007-2012 Adopted Capital Improvement Program

Fund Summary

Fund Name	LTD	2006	2007	2008	2009	2010	2011	2012	Total
SPU Water Fund	337,267	72,572	104,246	70,222	77,846	65,131	64,338	63,974	855,595
Department Total	337,267	72,572	104,246	70,222	77,846	65,131	64,338	63,974	855,595

Note: Additional allocations for the SPU Water Fund are shown in the SPU - Technology section of this document.

**Amounts in thousands of dollars*

Asset Management

BCL/Program Name: Distribution

BCL/Program Code: C110B

Project Type: Rehabilitation or Restoration

Start Date: 4th Quarter 2002

Project ID: C1126

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program provides funding for managing the City’s water system assets as optimally as possible by using sound asset management principles and practices. Project elements include the following: developing, monitoring, and reporting on measurable customer and environmental service levels; preparing Strategic Asset Management Plans; developing and implementing asset decision models; developing information technology applications; collecting data and assessing the condition of SPU’s assets; and evaluating SPU’s current operating and maintenance practices and processes. Funding is allocated from the Asset Management Program to these various programs once they are clearly defined. The confidence level in the current cost estimate is medium. The project has been approved by SPU’s Asset Management Committee.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	2,790	1,317	259	251	263	272	324	278	5,754
Project Total:	2,790	1,317	259	251	263	272	324	278	5,754
Fund Appropriations/Allocations									
SPU Water Fund	2,790	1,317	259	251	263	272	324	278	5,754
Appropriations Total*	2,790	1,317	259	251	263	272	324	278	5,754
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,040	259	251	263	272	324	278	2,687

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

SPU - Water

Aurora Ave. N (110th - 145th)

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Improved Facility **Start Date:** 4th Quarter 2003
Project ID: C103033 **End Date:** 4th Quarter 2007

Location: N 110th St./Aurora Ave. N

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Not in an Urban Village

The Seattle Department of Transportation is developing a scope of work for rehabilitating or improving Aurora Ave. N. This project funds the necessary preliminary engineering to determine the water system impacts of that transportation project. If the transportation project progresses further, additional funds will be requested at that time to address the impacts. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	16	8	0	0	0	0	0	24
Project Total:	0	16	8	0	0	0	0	0	24
Fund Appropriations/Allocations									
SPU Water Fund	0	16	8	0	0	0	0	0	24
Appropriations Total*	0	16	8	0	0	0	0	0	24
O & M Costs (Savings)			0	0	0	0	0	0	0

Aurora N Multi-modal Corridor

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Improved Facility **Start Date:** 4th Quarter 2003
Project ID: C103027 **End Date:** 2nd Quarter 2007

Location: N 145th St./Aurora Ave. N

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: North

Urban Village: Not in an Urban Village

The City of Shoreline is redeveloping Aurora Ave. N. This project addresses the impacts of the City of Shoreline's project on the water system, and funds improvements required to increase the fireflow along both sides of Aurora Ave. to current standards. The project includes the replacement of four- and six-inch watermains with 12-inch watermains; the replacement, relocation, and addition of new fire hydrants; and the relocation of water service meters. Construction is underway, and the confidence level of the cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	544	156	27	0	0	0	0	0	727
Project Total:	544	156	27	0	0	0	0	0	727
Fund Appropriations/Allocations									
SPU Water Fund	544	156	27	0	0	0	0	0	727
Appropriations Total*	544	156	27	0	0	0	0	0	727
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		81	27	0	0	0	0	0	108

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

Ballard Locks Improvements

BCL/Program Name: Habitat Conservation Program

BCL/Program Code: C160B

Project Type: Improved Facility

Start Date: 1st Quarter 2000

Project ID: C1606

End Date: 4th Quarter 2010

Location: NW 54th St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Ballard

Urban Village: Ballard

This project is a sub-element of the Cedar River Habitat Conservation Plan (HCP) and associated Cedar River Instream Flow Agreement. Improvements include the planning, design, and construction of freshwater conservation and smolt passage facilities at the Ballard Locks to improve fish passage and survival. The project is part of a comprehensive instream flow management program for the Cedar River that protects the City's continued ability to divert adequate amounts of high quality water for regional use. This program also protects instream resources and the U.S. Army Corps of Engineers' ability to provide adequate flows for operating the Locks. SPU's Asset Management Committee has approved the HCP at the program level. The confidence level for this cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	940	155	76	74	54	435	0	0	1,734
Project Total:	940	155	76	74	54	435	0	0	1,734
Fund Appropriations/Allocations									
SPU Water Fund	940	155	76	74	54	435	0	0	1,734
Appropriations Total*	940	155	76	74	54	435	0	0	1,734
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		75	76	74	54	435	0	0	714

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

SPU - Water

BPA - Aquatic & Riparian Restoration

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 2nd Quarter 2004

Project ID: C1303

End Date: 4th Quarter 2008

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

The Bonneville Agreement program plans and implements aquatic and riparian restoration projects within the Cedar River Municipal Watershed. These projects enhance and accelerate the City's existing efforts to restore riparian, aquatic, and wetland habitat in the watershed, and compensate for the impacts of the Bonneville Power Administration's power line project on that habitat. SPU's Asset Management Committee has approved this program. The confidence level in the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	686	600	305	3	0	0	0	0	1,595
Project Total:	686	600	305	3	0	0	0	0	1,595
Fund Appropriations/Allocations									
SPU Water Fund	686	600	305	3	0	0	0	0	1,595
Appropriations Total*	686	600	305	3	0	0	0	0	1,595
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		729	305	3	0	0	0	0	1,037

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

2007-2012 Adopted Capital Improvement Program

BPA - Road Decommissioning/Improvements

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Improved Facility **Start Date:** 2nd Quarter 2004
Project ID: C1304 **End Date:** 4th Quarter 2009

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This program plans and implements road decommissioning and road improvement projects within the Cedar River Municipal Watershed. These projects enhance and accelerate the City's existing programs to improve or abandon watershed roads, and compensate for the effects of the additional road length added to the watershed as a result of the Bonneville Power Administration's power line project. SPU's Asset Management Committee has approved this program. The confidence level in the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	783	282	137	167	58	0	0	0	1,427
Project Total:	783	282	137	167	58	0	0	0	1,427
Fund Appropriations/Allocations									
SPU Water Fund	783	282	137	167	58	0	0	0	1,427
Appropriations Total*	783	282	137	167	58	0	0	0	1,427
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		426	137	167	58	0	0	0	788

BPA - Security Measures

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: New Facility **Start Date:** 1st Quarter 2004
Project ID: C1305 **End Date:** 4th Quarter 2010

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This program plans, purchases, and installs watershed security improvements within the Cedar River Municipal Watershed to protect watershed resources and restrict watershed access. These projects compensate for the impacts of the Bonneville Power Administration's power line project on security within the watershed. SPU's Asset Management Committee has reviewed and approved this set of projects. The confidence level in cost estimates is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	550	255	35	45	11	11	0	0	906
Project Total:	550	255	35	45	11	11	0	0	906
Fund Appropriations/Allocations									
SPU Water Fund	550	255	35	45	11	11	0	0	906
Appropriations Total*	550	255	35	45	11	11	0	0	906
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		204	35	45	11	11	0	0	305

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

SPU - Water

BPA - Upland Forest Restoration

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 2nd Quarter 2004

Project ID: C1306

End Date: 4th Quarter 2011

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program plans and implements forest restoration projects within the Cedar River Municipal Watershed. This program will enhance and accelerate the City's existing Upland Forest Restoration Program and help compensate for the impacts of the Bonneville Power Administration's power line project on older, second-growth forest and other upland habitats in the watershed. SPU's Asset Management Committee has reviewed and approved this program. The confidence level in cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	222	390	395	242	26	27	32	0	1,334
Project Total:	222	390	395	242	26	27	32	0	1,334
Fund Appropriations/Allocations									
SPU Water Fund	222	390	395	242	26	27	32	0	1,334
Appropriations Total*	222	390	395	242	26	27	32	0	1,334
O & M Costs (Savings)			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 in thousands of dollars.*

2007-2012 Adopted Capital Improvement Program

Cathodic Protection Program

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2004
Project ID: C1116 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program implements SPU's Cathodic Protection Master Plan by installing pipe exterior corrosion protection systems along the major water transmission pipelines. Cathodic protection systems are a relatively low-cost method of extending the life of buried pipelines. They can be used to protect ductile iron, steel, and concrete cylinder pipe. Unprotected, these types of pipelines corrode through an electrochemical process; cathodic protection strives to slow down or even stop this electrochemical process by providing electrical current to the pipe. Each project installs new or replacement rectifiers and anodes along a section of pipeline between one and four miles in length. In the 2006-2011 Adopted CIP, the project ID for the project was C1NW116.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,489	731	843	407	342	326	519	178	4,835
Project Total:	1,489	731	843	407	342	326	519	178	4,835
Fund Appropriations/Allocations									
SPU Water Fund	1,489	731	843	407	342	326	519	178	4,835
Appropriations Total*	1,489	731	843	407	342	326	519	178	4,835
O & M Costs (Savings)			2	3	3	3	3	3	17
Spending Plan		75	843	407	342	326	519	178	2,690

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

SPU - Water

Cedar Bridges

BCL/Program Name: Watershed Stewardship
Project Type: Improved Facility
Project ID: C1307

BCL/Program Code: C130B
Start Date: Ongoing
End Date: 4th Quarter 2011

Location: Cedar Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project replaces bridges in the Cedar River Watershed on watershed roads where existing bridges are no longer able to carry required loading, resulting in safety and environmental risks. SPU's Asset Management Committee has approved the program. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	7,351	422	1,176	186	105	179	226	0	9,646
Project Total:	7,351	422	1,176	186	105	179	226	0	9,646
Fund Appropriations/Allocations									
SPU Water Fund	7,351	422	1,176	186	105	179	226	0	9,646
Appropriations Total*	7,351	422	1,176	186	105	179	226	0	9,646
O & M Costs (Savings)			16	16	16	16	16	16	96
Spending Plan		423	1,176	186	105	179	226	0	2,296

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

Cedar Falls – Railroad Hazardous Material Remediation

BCL/Program Name: Watershed Stewardship
Project Type: New Investment
Project ID: C100078

BCL/Program Code: C130B
Start Date: 1st Quarter 2006
End Date: 2nd Quarter 2009

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project addresses contamination left by historical railroad operations in the Cedar River Municipal Watershed. It has three components: 1) assess the nature and risks posed by the contamination; 2) determine the scope and cost of an appropriate cleanup; and 3) support negotiations with Burlington Northern Santa Fe (BNSF) that lead to remedial action. The first two of these components have been completed. A small portion of the contaminated material is located on lands where BNSF and its predecessor operated under an easement granted by the City, while the majority of the contaminated material is located on land that BNSF owns. The project funds staff time to negotiate an agreement to share a portion of the cleanup costs, and is consistent with SPU's long-term effort to consolidate ownership of watershed lands, after proper cleanup by the responsible parties of any contamination. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	166	0	62	50	5	0	0	0	284
Project Total:	166	0	62	50	5	0	0	0	284
Fund Appropriations/Allocations									
SPU Water Fund	166	0	62	50	5	0	0	0	284
Appropriations Total*	166	0	62	50	5	0	0	0	284
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		62	62	50	5	0	0	0	180

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

SPU - Water

Cedar Moraine Improvements

BCL/Program Name: Water Resources **BCL/Program Code:** C150B
Project Type: Improved Facility **Start Date:** 1st Quarter 1997
Project ID: C197009 **End Date:** 4th Quarter 2010

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

Cedar Moraine is a porous, glacial deposit abutting Chester Morse Lake. In December 1918, during the initial filling of the reservoir, a massive landslide occurred as a result of high groundwater. This project evaluates the conditions of the network, provides rehabilitation, and recommends further improvements. The most recently completed studies indicate that the risk of slope failure due to an earthquake warrants infrastructure improvements. This project may improve monitoring capabilities along the northwest slopes of Cedar Moraine and may install up to three drainage tunnels to relieve groundwater pressures in the moraine. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,026	474	1,396	1,044	5	5	0	0	3,951
Project Total:	1,026	474	1,396	1,044	5	5	0	0	3,951
Fund Appropriations/Allocations									
SPU Water Fund	1,026	474	1,396	1,044	5	5	0	0	3,951
Appropriations Total*	1,026	474	1,396	1,044	5	5	0	0	3,951
O & M Costs (Savings)			0	0	30	30	30	30	120
Spending Plan		400	1,396	1,044	5	5	0	0	2,851

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

Cedar River - Boundary Land Acquisition

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 1998
Project ID: C198008 **End Date:** Ongoing

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

Although the City owns virtually all lands draining to the municipal water supply intake on the Cedar River, some exceptions remain along the boundary. The past decade has seen significant changes in ownership and land use of properties immediately adjoining the City's property. This project enables SPU to evaluate risks to watershed protection and security posed by these changes, and to respond as opportunities arise by acquiring property. All property acquisitions require specific legislative authority. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	2,310	104	102	91	106	110	131	112	3,066
Project Total:	2,310	104	102	91	106	110	131	112	3,066
Fund Appropriations/Allocations									
SPU Water Fund	2,310	104	102	91	106	110	131	112	3,066
Appropriations Total*	2,310	104	102	91	106	110	131	112	3,066
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		421	102	91	106	110	131	112	1,073

Cedar River - Education Center Exhibits

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Improved Facility **Start Date:** 2nd Quarter 2003
Project ID: C103001 **End Date:** 4th Quarter 2007

Location: CREW Education Center North Bend

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project funds fabrication and installation of interpretive exhibits to complete the Cedar River Watershed Education Center. A final exhibit required further evaluation which delayed the project completion. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	641	155	53	0	0	0	0	0	849
Project Total:	641	155	53	0	0	0	0	0	849
Fund Appropriations/Allocations									
SPU Water Fund	641	155	53	0	0	0	0	0	849
Appropriations Total*	641	155	53	0	0	0	0	0	849
O & M Costs (Savings)			2	2	2	2	2	2	12
Spending Plan		150	53	0	0	0	0	0	203

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

Cedar River Non-HCP Road Improvements

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 1st Quarter 1991

Project ID: C191001

End Date: Ongoing

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

The Cedar River Watershed contains more than 615 miles of forest roads. This project funds major improvements (beyond routine maintenance) on roads designated as having long-term purpose for watershed management including forest fire suppression, fish and wildlife management, forest management, security, and public education. Roads not deemed to be of long-term necessity are "deconstructed" by removing potentially unstable sidecast and fill material; constructing frequent waterbars; and re-establishing stream crossings. This work is designed to provide long-term stability, to approximate the drainage flows that existed prior to management activities, and to be complementary to road improvement and decommissioning projects included in the Cedar River Habitat Conservation Plan (HCP). SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	4,382	828	830	764	716	739	1,012	866	10,137
Project Total:	4,382	828	830	764	716	739	1,012	866	10,137
Fund Appropriations/Allocations									
SPU Water Fund	4,382	828	830	764	716	739	1,012	866	10,137
Appropriations Total*	4,382	828	830	764	716	739	1,012	866	10,137
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		804	830	764	716	739	1,012	866	5,731

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

Cedar River Pipeline 2 Replace Portion

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2004
Project ID: C104013 **End Date:** 4th Quarter 2007

Location: Carpel #2 Between Volunteer Park And Maple Leaf Gatehouse

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** Not in an Urban Village

This project investigates the condition and the current maximum working pressure of a 42-inch lockbar steel feeder main that is suspected to be corroded in some locations. The Cedar River Pipeline No. 2 extends from Volunteer Park to the Maple Leaf neighborhood and crosses the Ship Canal in a tunnel. It is currently expected that improvements will be limited to pressure testing the pipeline and installing an impressed current cathodic protection system. SPU's Asset Management Committee reviewed and approved the preliminary engineering phase of the project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	68	217	316	0	0	0	0	0	601
Project Total:	68	217	316	0	0	0	0	0	601
Fund Appropriations/Allocations									
SPU Water Fund	68	217	316	0	0	0	0	0	601
Appropriations Total*	68	217	316	0	0	0	0	0	601
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		64	316	0	0	0	0	0	380

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

SPU - Water

Cedar River Watershed & Wildlife Information Management System

BCL/Program Name: Watershed Stewardship	BCL/Program Code: C130B
Project Type: New Investment	Start Date: 1st Quarter 2007
Project ID: C107001	End Date: 4th Quarter 2008

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project develops and implements a data management system for fish and wildlife assets and resources in the Cedar River Municipal Watershed (CRW), which covers over 90,000 acres. Development and use of the information management system (IMS) will be compatible with and linked to, as appropriate, other SPU information management systems and their architecture. The outcome will be a significant decrease in staff labor over decades, better management of the City land, enhanced regulatory compliance, and knowledge and documentation of Cedar River fish and wildlife assets. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	42	193	0	0	0	0	235
Project Total:	0	0	42	193	0	0	0	0	235
Fund Appropriations/Allocations									
SPU Water Fund	0	0	42	193	0	0	0	0	235
Appropriations Total*	0	0	42	193	0	0	0	0	235
O & M Costs (Savings)			0	0	5	5	5	5	20

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

Cedar River Watershed Limited Use Area Management Plan

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107002

End Date: 4th Quarter 2008

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project analyzes Limited Uses Areas (LUAs) within the Cedar River Municipal Watershed. The analysis will include a review of current management plans, operational activities, and public usage patterns, identification of problems and issues, and development of recommendations for changes in SPU's policies and operational activities. SPU owns several hundred acres of land near or adjacent to the Cedar River Municipal Watershed that lies outside of the hydrographic boundary of the drinking water supply. SPU provides and maintains recreational facilities (trails, sanitation, parking, boat ramps, etc.) and maintenance operations on these lands, such as the Rattlesnake Lake Recreation Area, Landsburg Park, and Taylor Mountain Forest. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	104	40	0	0	0	0	144
Project Total:	0	0	104	40	0	0	0	0	144
Fund Appropriations/Allocations									
SPU Water Fund	0	0	104	40	0	0	0	0	144
Appropriations Total*	0	0	104	40	0	0	0	0	144
O & M Costs (Savings)			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 in thousands of dollars.*

Cedar River Watershed Management System

BCL/Program Name: Watershed Stewardship	BCL/Program Code: C130B
Project Type: New Investment	Start Date: 1st Quarter 2007
Project ID: C107006	End Date: 1st Quarter 2008

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project implements an inventory management system (including bar codes and bar code readers) to help identify inventory requirements, set targets, and report actual and projected inventory status. Proper inventory control will improve efficiency, reduce waste on capital and operations and maintenance expenditures, and optimize inventory levels. The inventory system will link to Maximo and provide SPU staff with information useful in determining true project and activity costs. It will also assist in setting and meeting service level targets. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	199	87	0	0	0	0	286
Project Total:	0	0	199	87	0	0	0	0	286
Fund Appropriations/Allocations									
SPU Water Fund	0	0	199	87	0	0	0	0	286
Appropriations Total*	0	0	199	87	0	0	0	0	286
O & M Costs (Savings)			0	0	5	5	5	5	20

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

Cedar River Watershed Northridge Trail

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 2nd Quarter 2002

Project ID: C102022

End Date: 4th Quarter 2007

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project implements the Northridge Trail, authorized under the Secondary Use Policy, to explore opportunities to create linkages with recreational hiking trails across the North ridge of the municipal Cedar River Watershed (the boundary with the South Fork Snoqualmie River Watershed). Planning efforts by the Interagency Trails Committee, Washington State Parks, the United States Department of Agriculture Forest Service, and Mountains to Sound Greenway have established several opportunities to support trails that allow access to the boundary of the Watershed, yet maintain the integrity of the hydrographic boundary. This project requires coordination and support from several other government and non-profit agencies. The project constructs a trail segment to the summit of Mt. Washington, providing a connection with Washington State Parks' Ollalie project. It will commence once the Forest Service allows the trail to be built on federal land. Preliminary design and siting are complete.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	33	11	23	0	0	0	0	0	67
Project Total:	33	11	23	0	0	0	0	0	67
Fund Appropriations/Allocations									
SPU Water Fund	33	11	23	0	0	0	0	0	67
Appropriations Total*	33	11	23	0	0	0	0	0	67
O & M Costs (Savings)			2	2	2	2	2	2	12
Spending Plan		45	23	0	0	0	0	0	68

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

Cedar River Watershed Resource Information Management

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107005

End Date: 4th Quarter 2008

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project develops a comprehensive information management system for archaeological artifacts from the Cedar River and S. Fork Tolt River Municipal Watersheds. It will create a searchable database while simultaneously accessioning and preserving the collection, which currently is not being archivally preserved. The database will also make the information easily accessible to researchers and the public. SPU manages a collection of thousands of artifacts, documents and photos documenting over 9,400 years of human activity in watersheds. These collections are located in the Gale Archives at the Cedar River Watershed Education Center. Information about these artifacts and documents is neither cohesive, nor accessible to researchers, staff or Native American tribes currently. Capturing the archaeological information about these collections is critical to the proper management and preservation of these irreplaceable items.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	207	104	0	0	0	0	311
Project Total:	0	0	207	104	0	0	0	0	311
Fund Appropriations/Allocations									
SPU Water Fund	0	0	207	104	0	0	0	0	311
Appropriations Total*	0	0	207	104	0	0	0	0	311
O & M Costs (Savings)			0	5	5	5	5	5	25

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

Cedar Sockeye Hatchery

BCL/Program Name: Habitat Conservation Program

BCL/Program Code: C160B

Project Type: New Facility

Start Date: 1st Quarter 2000

Project ID: C1605

End Date: 4th Quarter 2008

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project, a component of the Cedar River Habitat Conservation Plan (HCP) and Landsburg Mitigation Agreement, implements measures to mitigate impacts on sockeye salmon caused by the migration barrier formed by the Landsburg Diversion Dam. The hatchery's purpose is to produce fry in lieu of the production that could occur if sockeye were allowed to spawn above Landsburg Dam. The project consists of spring-fed water supply improvements, a broodstock holding facility, an incubation and short-term holding facility capable of producing 34 million fry, housing for two employees, and a broodstock collection facility. SPU's Asset Management Committee approved the HCP at the program level. The confidence level for this cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	2,418	242	5,407	3,042	0	0	0	0	11,109
Project Total:	2,418	242	5,407	3,042	0	0	0	0	11,109
Fund Appropriations/Allocations									
SPU Water Fund	2,418	242	5,407	3,042	0	0	0	0	11,109
Appropriations Total*	2,418	242	5,407	3,042	0	0	0	0	11,109
O & M Costs (Savings)			130	334	458	458	458	458	2,296
Spending Plan		585	5,407	3,042	0	0	0	0	9,034

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

SPU - Water

Cedar Treatment Facility

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: New Facility

Start Date: 1st Quarter 1996

Project ID: C196015

End Date: 4th Quarter 2007

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project develops and implements water treatment improvements to the Cedar River water supply to improve water quality, ensure compliance with drinking water regulations, and mitigate the periodic taste and odor problems that occur on the Cedar source. Under this project, new ozone disinfecting facilities (compatible with filtration) are planned, designed, and constructed near the Lake Youngs Reservoir. SPU is utilizing a design-build-operate contracting method for this project, similar to that used for the recently-commissioned Tolt Treatment Facility. The confidence level of the cost estimate is high, and SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	93,501	10	454	0	0	0	0	0	93,965
Project Total:	93,501	10	454	0	0	0	0	0	93,965
Fund Appropriations/Allocations									
SPU Water Fund	93,501	10	454	0	0	0	0	0	93,965
Appropriations Total*	93,501	10	454	0	0	0	0	0	93,965
O & M Costs (Savings)			5	7	7	7	7	8	41
Spending Plan		450	454	0	0	0	0	0	904

Chamber Upgrades - Distribution

BCL/Program Name: Distribution

BCL/Program Code: C110B

Project Type: Rehabilitation or Restoration

Start Date: 1st Quarter 2003

Project ID: C103002

End Date: Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program allows SPU to meet current Occupational Safety and Health Administration (OSHA) and Washington State Health Administration (WSHA) standards for confined space entry by replacing undersized underground chamber access openings (rings and covers) throughout the City's water system. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	442	124	121	115	158	163	195	167	1,485
Project Total:	442	124	121	115	158	163	195	167	1,485
Fund Appropriations/Allocations									
SPU Water Fund	442	124	121	115	158	163	195	167	1,485
Appropriations Total*	442	124	121	115	158	163	195	167	1,485
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		120	121	115	158	163	195	167	1,039

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

SPU - Water

Climate Protection - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Investment **Start Date:** 1st Quarter 2007
Project ID: C407S01-WF **End Date:** 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project researches the impact of climate change on the water system, and identifies adaptations or additional system resiliency that may be required. The effort is part of the Mayor's Environmental Action Agenda, which includes a City commitment to meet or beat Kyoto greenhouse gas emission targets. The Office of Sustainability & Environment leads the Citywide effort.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	154	164	0	0	0	0	318
Project Total:	0	0	154	164	0	0	0	0	318
Fund Appropriations/Allocations									
SPU Water Fund	0	0	154	164	0	0	0	0	318
Appropriations Total*	0	0	154	164	0	0	0	0	318
O & M Costs (Savings)			40	0	0	0	0	0	40

Distribution System In-Line Gate Valves

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 1999
Project ID: C199012 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** In more than one Urban Village

This project replaces aging in-line gate valves throughout the water distribution system, many of which are more than 50 years old, and for which spare parts are difficult to obtain. The confidence level of the cost estimate is medium as it is dependent on the condition of the gate valves and the availability of parts. The project has been approved by SPU's Asset Management Committee.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	440	62	60	58	63	65	78	67	894
Project Total:	440	62	60	58	63	65	78	67	894
Fund Appropriations/Allocations									
SPU Water Fund	440	62	60	58	63	65	78	67	894
Appropriations Total*	440	62	60	58	63	65	78	67	894
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		60	60	58	63	65	78	67	452

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

Downstream Fish Habitat

BCL/Program Name: Habitat Conservation Program

BCL/Program Code: C160B

Project Type: Rehabilitation or Restoration

Start Date: 1st Quarter 2001

Project ID: C1607

End Date: 4th Quarter 2010

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project is a component of the Cedar River Habitat Conservation Plan (HCP). The project implements downstream habitat protection and restoration measures in the lower 22 miles of the main stem Cedar River for the benefit of anadromous salmonid species, especially Chinook salmon, and to enhance natural ecological processes that shape and maintain riparian and aquatic habitat. Activities include habitat land acquisition in collaboration with Cascade Land Conservancy, restoration work at Walsh Lake, and restoration work in the lower Cedar River. This project is part of the HCP, which was approved by SPU's Asset Management Committee at the program level. The confidence level of the current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	349	1,527	2,517	2,798	336	16	0	0	7,543
Project Total:	349	1,527	2,517	2,798	336	16	0	0	7,543
Fund Appropriations/Allocations									
SPU Water Fund	349	1,527	2,517	2,798	336	16	0	0	7,543
Appropriations Total*	349	1,527	2,517	2,798	336	16	0	0	7,543
O & M Costs (Savings)			30	50	50	50	50	50	280
Spending Plan		1,000	2,517	2,798	336	16	0	0	6,667

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

Endangered Species Act Chinook Research & Monitoring

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2001
Project ID: C101048 **End Date:** 4th Quarter 2007

Location: Lake Washington Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This program researches and monitors Seattle’s salmon population, with emphasis on their habitat use in Lake Washington, the Ship Canal/Lake Union, and Ballard Locks. This program is part of the City's response to the listing of Chinook salmon as a threatened species under the federal Endangered Species Act. The results of these research and monitoring activities may minimize adverse impacts to endangered species from capital facilities and facility operations, as well as design salmon habitat restoration projects within the City of Seattle. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	826	230	259	0	0	0	0	0	1,315
Project Total:	826	230	259	0	0	0	0	0	1,315
Fund Appropriations/Allocations									
SPU Water Fund	826	230	259	0	0	0	0	0	1,315
Appropriations Total*	826	230	259	0	0	0	0	0	1,315
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		275	259	0	0	0	0	0	534

Endangered Species Act Snohomish River Basin

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2000
Project ID: C101003 **End Date:** 4th Quarter 2010

Location: Snohomish River Basin

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This program acquires and develops critical habitat for salmon in the Tolt River Watershed. The program is coordinated with similar efforts undertaken by City Light, and projects may occur in cooperation with King County, affected tribes, or other local, state, and federal agencies. The confidence level of the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	267	21	45	43	53	65	0	0	494
Project Total:	267	21	45	43	53	65	0	0	494
Fund Appropriations/Allocations									
SPU Water Fund	267	21	45	43	53	65	0	0	494
Appropriations Total*	267	21	45	43	53	65	0	0	494
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		20	45	43	53	65	0	0	226

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

Endangered Species Act Tolt Levee Modifications

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 1st Quarter 2005

Project ID: C105095

End Date: 4th Quarter 2010

Location: City Of Carnation

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This is a collaborative project between Seattle Public Utilities, Seattle City Light, and the King County Department of Natural Resources and Parks. The project removes approximately 1,000 feet of riverbank levee along the lower right bank of the Tolt River adjacent to the Tolt MacDonald Park. It constructs a new setback levee at the edge of the floodplain to provide reconnection to off-channel salmon habitat, and to allow for the creation of new spawning and rearing habitat for Chinook salmon. The SPU Asset Management Committee has approved this project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	181	258	1,247	734	21	22	0	0	2,463
Project Total:	181	258	1,247	734	21	22	0	0	2,463
Fund Appropriations/Allocations									
SPU Water Fund	181	258	1,247	734	21	22	0	0	2,463
Appropriations Total*	181	258	1,247	734	21	22	0	0	2,463
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		350	1,247	734	21	22	0	0	2,374

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

Environmental Steward Project Development

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Improved Facility **Start Date:** 1st Quarter 2005
Project ID: C105084 **End Date:** 4th Quarter 2012

Location: Cedar & Tolt River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project plans environmental stewardship activities prior to the formation of specific capital projects. This work includes development of Strategic Asset Management Plans and Project Development Plans for the Watershed and Environmental Program Area, policy analysis and program development to deal with issues related to the management of the Tolt and Cedar River Municipal Watersheds, and other work that assists in the identification of potential capital projects and development of concept-level scopes and estimates for new capital projects.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	17	103	97	107	105	109	130	111	778
Project Total:	17	103	97	107	105	109	130	111	778
Fund Appropriations/Allocations									
SPU Water Fund	17	103	97	107	105	109	130	111	778
Appropriations Total*	17	103	97	107	105	109	130	111	778
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		100	97	107	105	109	130	111	759

Fireflow & Pressure Improvements

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Improved Facility **Start Date:** 1st Quarter 2003
Project ID: C1128 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** In more than one Urban Village

This project improves the water distribution system by adding new water lines; replacing, relining, or slip-lining existing lines; adjusting pressure zone boundaries; and installing pressure reducing and pressure boosting installations to meet evolving customer service levels for continuity of service, pressure, water quality, and fire protection. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	181	580	561	142	1,053	1,087	1,297	1,111	6,012
Project Total:	181	580	561	142	1,053	1,087	1,297	1,111	6,012
Fund Appropriations/Allocations									
SPU Water Fund	181	580	561	142	1,053	1,087	1,297	1,111	6,012
Appropriations Total*	181	580	561	142	1,053	1,087	1,297	1,111	6,012
O & M Costs (Savings)			0	5	5	5	5	5	25
Spending Plan		182	561	142	1,053	1,087	1,297	1,111	5,433

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

SPU - Water

Heavy Equipment Purchases - WF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Investment	Start Date: 1st Quarter 1999
Project ID: C4116-WF	End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program replaces existing heavy equipment (such as loaders and bulldozers) used at Water Utility facilities as well as funding the purchase of new equipment adds. The project also funds retrofitting of existing equipment to meet SPU operational needs and initiatives.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	10,661	2,934	3,848	1,542	1,438	4,349	4,469	901	30,142
Project Total:	10,661	2,934	3,848	1,542	1,438	4,349	4,469	901	30,142
Fund Appropriations/Allocations									
SPU Water Fund	10,661	2,934	3,848	1,542	1,438	4,349	4,469	901	30,142
Appropriations Total*	10,661	2,934	3,848	1,542	1,438	4,349	4,469	901	30,142
O & M Costs (Savings)			0	0	0	0	0	0	0

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Hidden Lake CSO Betterments

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 2004
Project ID: C104066 **End Date:** 4th Quarter 2007

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northeast

Urban Village: Not in an Urban Village

This project improves fire flows and hydrants in conjunction with a King County combined sewer rehabilitation project, which is impacting SPU Water services in Shoreline. The County project creates an opportunity for SPU to perform its work while the width of the street is exposed, reducing future disruption by additional street openings. The four-inch water line under Springdale Ct. NW does not provide minimum fireflow requirements to the area and replacing approximately 1,100 linear feet of pipe will bring to the area at least 20 % more than the minimum requirement. In addition, all hydrants in the area will be replaced with six-inch standard hydrants. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	13	188	446	0	0	0	0	0	647
Project Total:	13	188	446	0	0	0	0	0	647
Fund Appropriations/Allocations									
SPU Water Fund	13	188	446	0	0	0	0	0	647
Appropriations Total*	13	188	446	0	0	0	0	0	647
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		200	446	0	0	0	0	0	646

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

Hidden Lake CSO Impact Work

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 2004
Project ID: C104067 **End Date:** 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northeast

Urban Village: Not in an Urban Village

This project is an inter-agency project with King County to address impacts to the City's water system in Shoreline by a King County sewer rehabilitation and improvement project. The County project includes the installation of a large underground storage pipe in the Boeing Creek Park, replacing the Hidden Lake pump station and approximately 11,000 feet of sewer pipe between the Hidden Lake pump station and the Richmond Beach pump station. The SPU work involves cutting, capping, and reconnecting pipes to allow implementation of the County project through SPU's water service area. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	23	271	293	217	0	0	0	0	804
Project Total:	23	271	293	217	0	0	0	0	804
Fund Appropriations/Allocations									
SPU Water Fund	23	271	293	217	0	0	0	0	804
Appropriations Total*	23	271	293	217	0	0	0	0	804
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		451	293	217	0	0	0	0	961

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

SPU - Water

I-405 Widening Cedar River Pipelines Impacts

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2005
Project ID: C105096 **End Date:** 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project is in response to the Washington State Department of Transportation's (WSDOT) planned widening of I-405 in the vicinity of South Center mall, and SR-167 near S 212 Street. At both locations SPU owns the pipeline right-of-way. At South Center, it is expected that SPU will provide an easement to WSDOT. Construction is expected to be performed by, and at the expense of, WSDOT. The confidence level of the current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	8	46	39	61	0	0	0	0	155
Project Total:	8	46	39	61	0	0	0	0	155
Fund Appropriations/Allocations									
SPU Water Fund	8	46	39	61	0	0	0	0	155
Appropriations Total*	8	46	39	61	0	0	0	0	155
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		47	39	61	0	0	0	0	147

I-5 Pavement Reconstruction - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2007
Project ID: C407022-WF **End Date:** 4th Quarter 2020

Location: I-5

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** In more than one Urban Village

This program relocates or replaces water-related facilities affected by the Washington State Department of Transportation's (WSDOT) I-5 Pavement Reconstruction Project. WSDOT is planning on reconstructing 16 miles of I-5 pavement from Tukwila/Seattle city limits north to NE 145th. The confidence level of the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	132	135	135	138	141	145	825
Project Total:	0	0	132	135	135	138	141	145	825
Fund Appropriations/Allocations									
SPU Water Fund	0	0	132	135	135	138	141	145	825
Appropriations Total*	0	0	132	135	135	138	141	145	825
O & M Costs (Savings)			0	0	0	0	0	0	0

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2007-2012 Adopted Capital Improvement Program

Instream Flow Management Studies

BCL/Program Name: Habitat Conservation Program

BCL/Program Code: C160B

Project Type: Improved Facility

Start Date: 4th Quarter 2003

Project ID: C1608

End Date: 4th Quarter 2010

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Ballard

Urban Village: In more than one Urban Village

This set of projects is part of the Cedar River Habitat Conservation Plan (HCP), which has received approval by SPU's Asset Management Committee. Studies conducted under this project generate information on relationships between stream flow and habitat conditions, with an emphasis on Chinook; support effective allocation of water above guaranteed levels; and address technical issues that emerged in the later stages of developing the HCP. The project includes studies of Chester Morse dead storage, to evaluate the feasibility of using dead storage in Chester Morse Lake to augment future water supply and flows, taking into account engineering, environmental, and economic issues. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	232	623	571	423	290	123	0	0	2,261
Project Total:	232	623	571	423	290	123	0	0	2,261
Fund Appropriations/Allocations									
SPU Water Fund	232	623	571	423	290	123	0	0	2,261
Appropriations Total*	232	623	571	423	290	123	0	0	2,261
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		800	571	423	290	123	0	0	2,206

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

SPU - Water

Integrated Control Monitoring Program - WF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Investment	Start Date: 1st Quarter 2002
Project ID: C4108-WF	End Date: 4th Quarter 2012

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program expands upon the Supervisory Control and Data Acquisition (SCADA) system installed as part of CIP project C195008. This program is broken down into three concurrent projects. Project one will enable System Operators to gather more system information and control water infrastructure. The equipment includes 120 new SCADA devices, such as flow or pressure from remote sensors and from supply dams, to remotely control pumps and valves. Project two is Operations Optimization, a set of organizational process and technology applications to improve water system operations and SCADA data usefulness. Applications include a web-based Water System Operating Plan, a Water Quality Analyzer, and a Data Quality Monitor. Project three integrates SCADA with SPU asset and maintenance information management systems. SCADA measurement data will be used to assist in capacity planning, validating repairs, identifying blockages, assessing DPD permit requests, correlating/calibrating models, and prioritizing planned maintenance.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	13,681	2,383	3,876	2,705	877	679	57	29	24,286
Project Total:	13,681	2,383	3,876	2,705	877	679	57	29	24,286
Fund Appropriations/Allocations									
SPU Water Fund	13,681	2,383	3,876	2,705	877	679	57	29	24,286
Appropriations Total*	13,681	2,383	3,876	2,705	877	679	57	29	24,286
O & M Costs (Savings)			31	31	123	372	372	372	1,301
Spending Plan		0	3,876	2,705	877	679	57	29	8,222

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

Kerriston Road Mitigation

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107017

End Date: 4th Quarter 2012

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

Kerriston Road is a King County right-of-way that bisects the lower Cedar River watershed within the municipal watershed boundary. The presence of this road poses a number of security and operational challenges in watershed management. The Washington Department of Health, which administers the Safe Drinking Water Act, has pointed out these risks to Seattle Public Utilities and requested an approach to address them. This project funds a comprehensive analysis of the risks presented by public access on the Kerriston Road. It includes feasibility studies and cost estimates for all of the risk management options that are developed, as well as funds for acquisition of property, based on the assumption that acquisition will be the preferred option. King County has shown an interest in cooperating in the acquisition of privately-owned land at the end of Kerriston Road, thereby allowing the County to close the road. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	75	201	211	217	259	222	1,185
Project Total:	0	0	75	201	211	217	259	222	1,185
Fund Appropriations/Allocations									
SPU Water Fund	0	0	75	201	211	217	259	222	1,185
Appropriations Total*	0	0	75	201	211	217	259	222	1,185
O & M Costs (Savings)			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 in thousands of dollars.*

Lake Youngs Management Plan

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107003

End Date: 4th Quarter 2012

Location: Lake Youngs Reserve

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project develops and implements a plan for land-management activities on lands surrounding the water supply at Lake Youngs Reserve. The Lake Youngs Management plan will include a long-term assessment of the principles, goals and objectives for managing and protecting this publicly-owned watershed; a review and update of current policies, plans, and regulations that pertain to the Lake Youngs Reservation; a description and assessment of reservation resources; assessment of current land-management activities and capital improvement needs; development of new policies and service levels that may be identified; and development of methods and priorities for protecting and restoring both land and natural/cultural resources. Efforts may include research, monitoring, and public education programs.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	156	0	53	54	65	56	383
Project Total:	0	0	156	0	53	54	65	56	383
Fund Appropriations/Allocations									
SPU Water Fund	0	0	156	0	53	54	65	56	383
Appropriations Total*	0	0	156	0	53	54	65	56	383
O & M Costs (Savings)			0	0	5	5	5	5	20

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

SPU - Water

Lake Youngs Outlet Dam Warning System

BCL/Program Name: Water Resources **BCL/Program Code:** C150B
Project Type: Improved Facility **Start Date:** 1st Quarter 2001
Project ID: C101006 **End Date:** 1st Quarter 2007

Location: South Of Lake Youngs Reservoir

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project installs a warning system for detecting dam failure at the Lake Youngs Outlet Dam, per regulatory requirement. Operations and maintenance costs listed below are included in the Department's operating budget. The confidence level of cost estimate is high and the SPU Asset Management Committee has approved this project for construction.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	984	41	10	0	0	0	0	0	1,035
Project Total:	984	41	10	0	0	0	0	0	1,035
Fund Appropriations/Allocations									
SPU Water Fund	984	41	10	0	0	0	0	0	1,035
Appropriations Total*	984	41	10	0	0	0	0	0	1,035
O & M Costs (Savings)			19	24	24	24	24	24	139
Spending Plan		105	10	0	0	0	0	0	115

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

2007-2012 Adopted Capital Improvement Program

Landsburg Fish Passage Monitoring

BCL/Program Name: Habitat Conservation Program

BCL/Program Code: C160B

Project Type: Improved Facility

Start Date: 2nd Quarter 1999

Project ID: C1604

End Date: 4th Quarter 2009

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program mitigates the effects of the fish migration blockage on the Cedar River created by the Landsburg Dam, and is a key element of the Cedar River Habitat Conservation Plan (HCP). The program includes the planning, design, and construction of four major fish passage facilities; interim studies; and the implementation of monitoring and other mitigation measures to help restore Chinook, Coho, and Steelhead populations. Landsburg is the site of the City of Seattle’s municipal water diversion and treatment facilities on the Cedar River. The SPU Asset Management Committee has approved the design and construction phases of the project and the confidence level for this cost estimate is high. In the 2006-2011 Adopted CIP, the project title for the project was Landsburg Fish Passage Improvements.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	193	226	268	252	3	0	0	0	942
Project Total:	193	226	268	252	3	0	0	0	942
Fund Appropriations/Allocations									
SPU Water Fund	193	226	268	252	3	0	0	0	942
Appropriations Total*	193	226	268	252	3	0	0	0	942
O & M Costs (Savings)			169	169	169	169	169	169	1,014
Spending Plan		235	268	252	3	0	0	0	759

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

Landsburg Flood Passage Improvements

BCL/Program Name: Water Resources **BCL/Program Code:** C150B
Project Type: Improved Facility **Start Date:** 1st Quarter 2004
Project ID: C104016 **End Date:** 4th Quarter 2009

Location: Landsburg Dam on Cedar River
Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project addresses flood passage at the City’s Landsburg Dam on the Cedar River, making necessary improvements to reduce the risk of significant damage in the event of a major flood. The Asset Management Committee has approved funding for design and construction. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	174	410	758	486	63	0	0	0	1,891
Project Total:	174	410	758	486	63	0	0	0	1,891
Fund Appropriations/Allocations									
SPU Water Fund	174	410	758	486	63	0	0	0	1,891
Appropriations Total*	174	410	758	486	63	0	0	0	1,891
O & M Costs (Savings)			8	10	10	10	10	10	58
Spending Plan		528	758	486	63	0	0	0	1,835

Maple Leaf Gatehouse Pipe Refurbishing

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Improved Facility **Start Date:** 2nd Quarter 1995
Project ID: C195001 **End Date:** 2nd Quarter 2007

Location: NE 83rd St./12th Ave. NE
Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Northeast **Urban Village:** Not in an Urban Village

This project refurbishes valves and piping to allow more water from the Tolt source to be delivered to areas south of the Lake Washington Ship Canal normally served by the Cedar source. The project also addresses seismic issues with the gatehouse structure. The confidence level in the current cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	74	10	254	0	0	0	0	0	338
Project Total:	74	10	254	0	0	0	0	0	338
Fund Appropriations/Allocations									
SPU Water Fund	74	10	254	0	0	0	0	0	338
Appropriations Total*	74	10	254	0	0	0	0	0	338
O & M Costs (Savings)			5	5	5	5	5	5	30
Spending Plan		72	254	0	0	0	0	0	326

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

SPU - Water

Marine View/Des Moines Creek

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 3rd Quarter 1997
Project ID: C197021 **End Date:** 4th Quarter 2008

Location: Marine View Dr.

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project responds to a project by the City of Des Moines that replaces an existing embankment and box culvert over the Des Moines Creek with a bridge. As a result of the City of Des Moines' project, SPU's Des Moines Way pipeline over the embankment is decommissioned. The work is essentially complete, and the section of the pipeline south of the new bridge is no longer in service. Remaining closeout activities include finding a new owner for the decommissioned pipe, or filling it with sand or weak concrete. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	248	31	5	5	0	0	0	0	289
Project Total:	248	31	5	5	0	0	0	0	289
Fund Appropriations/Allocations									
SPU Water Fund	248	31	5	5	0	0	0	0	289
Appropriations Total*	248	31	5	5	0	0	0	0	289
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		5	5	5	0	0	0	0	15

Meter Replacement - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** Ongoing
Project ID: C4101-WF **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** In more than one Urban Village

This program replaces customer meters that are not performing within the American Water Works Association's standards of accuracy due to obsolescence, incorrect application, or inability to repair. It is currently more cost-effective to replace two-inch and smaller meters than it is to repair them. Three-inch and larger meters are repaired, if possible. SPU's Asset Management Committee has approved the program. The confidence level of the cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,455	718	574	579	560	574	588	603	5,651
Project Total:	1,455	718	574	579	560	574	588	603	5,651
Fund Appropriations/Allocations									
SPU Water Fund	1,455	718	574	579	560	574	588	603	5,651
Appropriations Total*	1,455	718	574	579	560	574	588	603	5,651
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		722	574	579	560	574	588	603	4,200

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

Morse Lake Dead Storage Facilities

BCL/Program Name: Water Resources **BCL/Program Code:** C150B
Project Type: Improved Facility **Start Date:** 1st Quarter 2003
Project ID: C103032 **End Date:** 2nd Quarter 2011

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project implements a cost-effective system for reliably delivering water from Cedar Dead Storage during drought conditions for water supply and instream flows. This project may either make modifications to the existing Morse Lake Pumping Plants or construct a more reliable and cost-effective alternative system. SPU Asset Management Committee has approved the project. The confidence level of the cost estimate is low.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	634	927	1,847	910	8,423	11,710	1,297	0	25,748
Project Total:	634	927	1,847	910	8,423	11,710	1,297	0	25,748
Fund Appropriations/Allocations									
SPU Water Fund	634	927	1,847	910	8,423	11,710	1,297	0	25,748
Appropriations Total*	634	927	1,847	910	8,423	11,710	1,297	0	25,748
O & M Costs (Savings)			165	95	32	49	32	32	405
Spending Plan		920	1,847	910	8,423	11,710	1,297	0	25,107

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

Muckleshoot Agreement Implementation Plan

BCL/Program Name: Watershed Stewardship	BCL/Program Code: C130B
Project Type: New Investment	Start Date: 1st Quarter 2007
Project ID: C107016	End Date: 4th Quarter 2009

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan	Neighborhood Plan Matrix: N/A
Neighborhood District: Not in a Neighborhood District	Urban Village: Not in an Urban Village

The Muckleshoot Settlement Agreement, per Ordinance 122131, settles Muckleshoot Indian Tribe (MIT) claims over Seattle’s withdrawal of water from the Cedar River and a longstanding tribal claim over declining fish runs in the Cedar River/Lake Washington Basin. The agreement provides certainty for the region’s water quality and quantity and a cooperative relationship between the City and the tribe. This project funds efforts that support implementation of the agreement’s provisions, including trail improvements, development of the Cooperative Plan, upgrading the computerized access notification system, safety plan development, and improvements (including safety equipment and technology, communication equipment improvements, gates), surplus land transfers, and acquisition of the Yakima Pass parcel (required prior to conveyance to MIT). SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	626	201	105	0	0	0	932
Project Total:	0	0	626	201	105	0	0	0	932
Fund Appropriations/Allocations									
SPU Water Fund	0	0	626	201	105	0	0	0	932
Appropriations Total*	0	0	626	201	105	0	0	0	932
O & M Costs (Savings)			5	70	70	70	70	70	355

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

SPU - Water

Multiple Utility Relocation

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** Ongoing
Project ID: C1205 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program enables SPU to respond to large projects that are conducted by other agencies that impact Seattle's water system. Impacts include utility conflicts that require relocations and construction impacts, and the project includes coordination to minimize impacts to SPU's customers and supply. Often these agencies reimburse SPU for some or all of the costs incurred. The life-to-date costs for this project are zero as costs are allocated to the individual projects once they are identified. In the 2006-2011 Adopted CIP, the project ID for the project was C1NW201-001.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	976	612	530	526	544	649	555	4,392
Project Total:	0	976	612	530	526	544	649	555	4,392
Fund Appropriations/Allocations									
SPU Water Fund	0	976	612	530	526	544	649	555	4,392
Appropriations Total*	0	976	612	530	526	544	649	555	4,392
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		814	612	530	526	544	649	555	4,230

Operational Facility - Construction - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** Ongoing
Project ID: C4106-WF **End Date:** Ongoing

Location: Multiple

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program funds facility construction improvements for operational facilities within the city limits that support SPU management, operations and maintenance business functions, workforce, material, and equipment. Sub-projects within this program will go to SPU's Asset Management Committee for approval. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,956	2,085	1,508	924	2,159	1,551	1,513	1,551	13,247
Project Total:	1,956	2,085	1,508	924	2,159	1,551	1,513	1,551	13,247
Fund Appropriations/Allocations									
SPU Water Fund	1,956	2,085	1,508	924	2,159	1,551	1,513	1,551	13,247
Appropriations Total*	1,956	2,085	1,508	924	2,159	1,551	1,513	1,551	13,247
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		2,232	1,508	924	2,159	1,551	1,513	1,551	11,438

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

SPU - Water

Operational Facility - Other - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** Ongoing
Project ID: C4115-WF **End Date:** Ongoing

Location: Multiple

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program funds non-construction improvements such as studies, assessments, planning, design, and purchases for operational facility assets within the city limits. In 2011-2012 SPU is planning to focus improvements on Water-funded projects but that could be changed over time as projects are determined. Sub-projects within this program will go to SPU's Asset Management Committee for approval.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	47	789	676	261	338	589	113	116	2,929
Project Total:	47	789	676	261	338	589	113	116	2,929
Fund Appropriations/Allocations									
SPU Water Fund	47	789	676	261	338	589	113	116	2,929
Appropriations Total*	47	789	676	261	338	589	113	116	2,929
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		507	676	261	338	539	113	116	2,550

Operations Control Center - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2003
Project ID: C4105-WF **End Date:** 4th Quarter 2010

Location: 2700 Airport Way South/Forest/Lander

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Not in an Urban Village

This program rehabilitates, replaces, and constructs new improvements at the Operations Control Center complex to support the business needs of SPU's operational work force. Sub-projects within this program will go to the Asset Management Committee for approval.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	542	3,153	1,193	250	996	104	0	0	6,238
Project Total:	542	3,153	1,193	250	996	104	0	0	6,238
Fund Appropriations/Allocations									
SPU Water Fund	542	3,153	1,193	250	996	104	0	0	6,238
Appropriations Total*	542	3,153	1,193	250	996	104	0	0	6,238
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		3,243	1,193	250	996	104	0	0	5,786

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

Painting Program - Myrtle Tank

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2004
Project ID: C104031 **End Date:** 2nd Quarter 2010

Location: SW Myrtle St.

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A

Neighborhood District: Southwest **Urban Village:** Morgan Junction

The Tank Painting program involves interior and exterior surface preparation and painting, minor structural repairs, and safety modifications on a regular maintenance cycle at the city's various tank sites. This project cleans and overcoats the tank exterior of the Myrtle tanks. The interior lining on one of the tanks is also removed and replaced. Minor safety and operational modifications are made. The confidence level of the cost estimate is high, but the project is currently on hold for a minimum of two years due to staff reallocation to higher-priority projects. SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	54	127	56	5	373	360	0	0	975
Project Total:	54	127	56	5	373	360	0	0	975
Fund Appropriations/Allocations									
SPU Water Fund	54	127	56	5	373	360	0	0	975
Appropriations Total*	54	127	56	5	373	360	0	0	975
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		448	56	5	373	360	0	0	1,242

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

SPU - Water

Painting Program - Richmond Highland

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2004
Project ID: C104032 **End Date:** 2nd Quarter 2010

Location: N 195th St./Fremont Ave. N

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

The Tank Painting program involves interior and exterior surface preparation and painting, minor structural repairs, and safety modifications on a regular maintenance cycle at the City's various tank sites. This project cleans and overcoats the tank exterior of the Richmond Highland tanks. The interior lining is completely removed and replaced. Minor safety and operational modifications are made. The confidence level of the cost estimate is high, but the project is currently on hold, which may continue for a minimum of two years due to staff reallocation to higher priority projects. SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	64	1,571	5	5	535	535	0	0	2,715
Project Total:	64	1,571	5	5	535	535	0	0	2,715
Fund Appropriations/Allocations									
SPU Water Fund	64	1,571	5	5	535	535	0	0	2,715
Appropriations Total*	64	1,571	5	5	535	535	0	0	2,715
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,022	5	5	535	535	0	0	2,102

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

SPU - Water

Painting Program - Steel Structures

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2005
Project ID: C1NW130 **End Date:** 4th Quarter 2012

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

The Steel Structures Painting program involves rehabilitation of the coating, lining, and paint systems on exposed steel pipelines, elevated tanks, standpipes, and other steel structures in the water system. The work involves minor structural repairs and safety modifications, surface preparation, and the application of a new coating system. This program is in a preliminary phase of development and cost estimates will be revised over time.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	103	52	251	474	544	649	555	2,627
Project Total:	0	103	52	251	474	544	649	555	2,627
Fund Appropriations/Allocations									
SPU Water Fund	0	103	52	251	474	544	649	555	2,627
Appropriations Total*	0	103	52	251	474	544	649	555	2,627
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		5	52	251	474	544	649	555	2,529

Pump Station - Install Station Motors

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 4th Quarter 1999
Project ID: C199052 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program replaces aging pump station motors throughout the water distribution system with new, more efficient motors. Some of the existing motors were installed 30 or more years ago and are now obsolete, with limited replacement parts available. The confidence for this project cost estimate is medium. SPU's Asset Management Committee has approved this project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	358	90	60	66	74	76	91	78	893
Project Total:	358	90	60	66	74	76	91	78	893
Fund Appropriations/Allocations									
SPU Water Fund	358	90	60	66	74	76	91	78	893
Appropriations Total*	358	90	60	66	74	76	91	78	893
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		60	60	66	74	76	91	78	505

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Pump Station - Queen Anne

BCL/Program Name: Distribution
Project Type: Improved Facility
Project ID: C1AA005

BCL/Program Code: C110B
Start Date: 1st Quarter 1996
End Date: 4th Quarter 2008

Location: 110 Lee St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Magnolia/Queen Anne

Urban Village: Not in an Urban Village

This project constructs a new booster pump station and pressure zone on the top of Queen Anne Hill to improve pressure at existing low-pressure water services in the higher elevation areas. The project includes more than 14,000 feet of watermain improvements necessary to establish the new pressure zone. The booster pump station will be an underground facility located at the site of the Queen Anne standpipes. The project also has a side benefit of improving fire flow capacity within the new pressure zone created. Project design is proceeding in conjunction with the Queen Anne tanks replacement project. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	355	3,018	5,102	727	0	0	0	0	9,203
Project Total:	355	3,018	5,102	727	0	0	0	0	9,203
Fund Appropriations/Allocations									
SPU Water Fund	355	3,018	5,102	727	0	0	0	0	9,203
Appropriations Total*	355	3,018	5,102	727	0	0	0	0	9,203
O & M Costs (Savings)			0	16	16	16	16	16	80
Spending Plan		110	5,102	727	0	0	0	0	5,940

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

SPU - Water

Purveyor Meters Replace - SPU

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2000
Project ID: C1107 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program replaces SPU wholesale customer meters that are not performing within industry standards of accuracy. The project also funds customer-requested wholesale meter changes and upgrades. For the most part, SPU costs are directly reimbursed by the wholesale customers. The confidence in the cost estimate is medium. This program does not require the SPU Asset Management Committee review as it is an ongoing program.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	78	103	147	126	105	109	130	111	909
Project Total:	78	103	147	126	105	109	130	111	909
Fund Appropriations/Allocations									
SPU Water Fund	78	103	147	126	105	109	130	111	909
Appropriations Total*	78	103	147	126	105	109	130	111	909
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		200	147	126	105	109	130	111	928

Regional Facility - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** Ongoing
Project ID: C4107-WF **End Date:** Ongoing

Location: Multiple

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program funds facility improvements for regional facilities that support SPU management, operations and maintenance business functions, work force, material, and equipment. The cost estimates will be revised over time as projects are determined. Sub-projects within this program will go to the Asset Management Committee for approval.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	4	261	1,232	494	3,309	2,470	566	0	8,336
Project Total:	4	261	1,232	494	3,309	2,470	566	0	8,336
Fund Appropriations/Allocations									
SPU Water Fund	4	261	1,232	494	3,309	2,470	566	0	8,336
Appropriations Total*	4	261	1,232	494	3,309	2,470	566	0	8,336
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		129	1,232	494	3,309	2,470	566	0	8,200

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

Regional Water Conservation Program

BCL/Program Name: Water Resources	BCL/Program Code: C150B
Project Type: Improved Facility	Start Date: 1st Quarter 1999
Project ID: C1504	End Date: 4th Quarter 2012

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program provides rebates to water customers to "buy back" water that is being inefficiently used at a cost that is lower than the cost of developing new supply sources. The rebates are provided to direct and wholesale retail customers for a variety of water-using products and equipment. Examples include upgrades in industrial process water, replacing water-cooled equipment with air-cooled versions, more efficient toilets and urinals, high-efficiency clothes washers, and new irrigation controllers and sensors. This project is required by Seattle's Water System Plan, wholesale contracts, and by City Council adopted legislation, including Resolutions 30091 and 30259, and Ordinance 120532. The goal is to cumulatively save 11 million gallons per day of average annual savings by 2011.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	2,629	3,657	3,731	3,697	4,211	4,186	2,594	611	25,317
Project Total:	2,629	3,657	3,731	3,697	4,211	4,186	2,594	611	25,317
Fund Appropriations/Allocations									
SPU Water Fund	2,629	3,657	3,731	3,697	4,211	4,186	2,594	611	25,317
Appropriations Total*	2,629	3,657	3,731	3,697	4,211	4,186	2,594	611	25,317
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		3,550	3,731	3,697	4,211	4,186	2,594	611	22,581

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

Renton Franchise/Line Valve Cedar River

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2002
Project ID: C102023 **End Date:** 4th Quarter 2007

Location: Cedar River Pipeline

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

In 1998, the Cities of Seattle and Renton signed an agreement that addresses Renton's request that SPU add line valves east of downtown Renton to reduce flooding in the event of a pipeline failure. This project responds to that agreement. Project components include improvement or relocation of pipeline dewatering points, replacement of Cedar River Pipeline 1 & 2 valves, automation of the I-405 ball valves, modifications to Augusta Gatehouse, and other miscellaneous work. The certainty of the project cost estimate is high, and it has been approved by SPU's Asset Management Committee.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,987	15	45	0	0	0	0	0	2,047
Project Total:	1,987	15	45	0	0	0	0	0	2,047
Fund Appropriations/Allocations									
SPU Water Fund	1,987	15	45	0	0	0	0	0	2,047
Appropriations Total*	1,987	15	45	0	0	0	0	0	2,047
O & M Costs (Savings)			27	35	35	0	0	0	97
Spending Plan		185	45	0	0	0	0	0	230

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

SPU - Water

Replace Air Valve Chambers

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** Ongoing
Project ID: C199060 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program replaces existing valve chamber tops and access chimneys with larger diameter tops and chimneys, and makes minor air valve improvements as needed. The project provides SPU staff with safer access to valves, and complies with industry safety standards. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	395	64	64	70	65	67	80	69	875
Project Total:	395	64	64	70	65	67	80	69	875
Fund Appropriations/Allocations									
SPU Water Fund	395	64	64	70	65	67	80	69	875
Appropriations Total*	395	64	64	70	65	67	80	69	875
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		62	64	70	65	67	80	69	478

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

Reservoir Covering - Beacon

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 1st Quarter 2001

Project ID: C101060

End Date: 4th Quarter 2009

Location: S Spokane St./Beacon Ave. S

Neighborhood Plan: North Beacon Hill

Neighborhood Plan Matrix: N/A

Neighborhood District: Greater Duwamish

Urban Village: Beacon Hill

Per Ordinance 121447, this project replaces the existing 49 million gallon open South Beacon Reservoir with a new underground reservoir of approximately the same size, and rehabilitates the pipes and valves connecting the reservoir to the water system. Additionally, the project may retire the existing North Beacon Reservoir. This project helps to protect Seattle's water supply from vandalism and contamination. Following this project, the Seattle Department of Parks and Recreation (Parks) may expand Jefferson Park over the reservoir site as a 2000 Parks Levy Project. The confidence level of the cost estimate is high. SPU's Asset Management Committee has reviewed and approved the reservoir burying program, including this project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,957	8,799	18,490	8,700	1,900	0	0	0	39,846
Project Total:	1,957	8,799	18,490	8,700	1,900	0	0	0	39,846
Fund Appropriations/Allocations									
SPU Water Fund	1,957	8,799	18,490	8,700	1,900	0	0	0	39,846
Appropriations Total*	1,957	8,799	18,490	8,700	1,900	0	0	0	39,846
O & M Costs (Savings)			0	0	(10)	(10)	(10)	(10)	-40
Spending Plan		8,600	18,490	8,700	1,900	0	0	0	37,690

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

Reservoir Covering - Maple Leaf

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 4th Quarter 2001

Project ID: C101078

End Date: 2nd Quarter 2014

Location: NE 86th St./Roosevelt Wy. NE

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Northeast

Urban Village: Not in an Urban Village

Per Ordinance 121447, this project replaces the existing Maple Leaf Reservoir with a new underground reservoir, and rehabilitates pipelines leading into and out of the reservoir. The project helps to protect Seattle's water supply from vandalism and contamination. Funds spent to date have been for design. The confidence level of the cost estimate is medium as construction is not scheduled to occur for several years in the future. Project construction completion is planned for the year 2013 consistent with Council Ordinance 121447. Project closeout activities will likely extend into 2014. SPU's Asset Management Committee has reviewed and approved the reservoir burying program, including this project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	433	2	14	0	300	396	17,347	29,341	47,833
Project Total:	433	2	14	0	300	396	17,347	29,341	47,833
Fund Appropriations/Allocations									
SPU Water Fund	433	2	14	0	300	396	17,347	29,341	47,833
Appropriations Total*	433	2	14	0	300	396	17,347	29,341	47,833
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		730	14	0	300	396	17,347	29,341	48,128

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

Reservoir Covering - Myrtle

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 4th Quarter 2001

Project ID: C101076

End Date: 4th Quarter 2008

Location: 35th Ave. SW

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Morgan Junction

Per Ordinance 121447, this project replaces the existing open Myrtle Reservoir with a new underground reservoir of approximately the same size, rehabilitates the pipes and valves connecting the reservoir to the water system, and converts the disinfection system at the reservoir to sodium hypochlorite (bleach). The project helps to protect Seattle's water supply from vandalism and contamination. Project construction completion is planned for the year 2007, consistent with Council Ordinance 121447. The confidence level of the cost estimate is high. The SPU Asset Management Committee has reviewed and approved the reservoir burying program, including this project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,107	2,695	6,720	300	0	0	0	0	10,822
Project Total:	1,107	2,695	6,720	300	0	0	0	0	10,822
Fund Appropriations/Allocations									
SPU Water Fund	1,107	2,695	6,720	300	0	0	0	0	10,822
Appropriations Total*	1,107	2,695	6,720	300	0	0	0	0	10,822
O & M Costs (Savings)			0	2	5	5	5	5	22
Spending Plan		3,200	6,720	300	0	0	0	0	10,220

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

Reservoir Covering - Volunteer

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 4th Quarter 2001

Project ID: C101059

End Date: 2nd Quarter 2016

Location: 12th Ave. E/E Prospect St.

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: East District

Urban Village: Capitol Hill

Per Ordinance 121447, this project replaces the existing Volunteer Reservoir with a new underground reservoir and rehabilitates pipelines leading into and out of the reservoir. The project helps to protect Seattle's water supply from vandalism and contamination. SPU is also evaluating the possibility of decommissioning this reservoir instead of burying it. Funding provided in 2011 is intended for design work to underground the reservoir, if a decision is made to keep the reservoir in service. The confidence level of the cost estimate is medium. The SPU Asset Management Committee has reviewed and approved the reservoir burying program, including this project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	0	0	0	50	100	750	900
Project Total:	0	0	0	0	0	50	100	750	900
Fund Appropriations/Allocations									
SPU Water Fund	0	0	0	0	0	50	100	750	900
Appropriations Total*	0	0	0	0	0	50	100	750	900
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Water

Reservoir Covering - West Seattle

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 4th Quarter 2001

Project ID: C101075

End Date: 4th Quarter 2010

Location: 8th Ave SW/SW Henderson

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Southwest

Urban Village: Not in an Urban Village

Per Ordinance 121447, this project replaces the existing West Seattle Reservoir with a new underground reservoir, and rehabilitates pipelines leading into and out of the reservoir. The project helps to protect Seattle's water supply from vandalism and contamination. The confidence level of the cost estimate is medium. Project construction completion is planned for the year 2010. SPU's Asset Management Committee has reviewed and approved the reservoir burying program, including this project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	435	284	730	7,143	14,747	5,823	0	0	29,162
Project Total:	435	284	730	7,143	14,747	5,823	0	0	29,162
Fund Appropriations/Allocations									
SPU Water Fund	435	284	730	7,143	14,747	5,823	0	0	29,162
Appropriations Total*	435	284	730	7,143	14,747	5,823	0	0	29,162
O & M Costs (Savings)			0	0	0	0	(10)	(10)	-20
Spending Plan		800	730	7,143	14,747	5,823	0	0	29,243

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

2007-2012 Adopted Capital Improvement Program

Rock Creek Fishway

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 1st Quarter 2002

Project ID: C101008

End Date: 4th Quarter 2008

Location: Lake Youngs

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

In 2000, SPU received notification from the Washington Department of Fish and Wildlife that the culvert crossing under the Lake Youngs Aqueduct on Rock Creek, approximately 3.5 miles north of Landsburg, does not comply with existing fish passage requirements. This project is planned to meet requirements: an independent consultant assessment of the nature and magnitude of fish passage impairment at the current structure; conceptual development of a range of improvement options for the facility; and design, permitting, and construction of the selected improvement option. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	179	115	1,640	66	0	0	0	0	2,000
Project Total:	179	115	1,640	66	0	0	0	0	2,000
Fund Appropriations/Allocations									
SPU Water Fund	179	115	1,640	66	0	0	0	0	2,000
Appropriations Total*	179	115	1,640	66	0	0	0	0	2,000
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		340	1,640	66	0	0	0	0	2,046

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

SPU - Water

Seattle Direct Service Additional Conservation

BCL/Program Name: Water Resources **BCL/Program Code:** C150B
Project Type: Improved Facility **Start Date:** 1st Quarter 2001
Project ID: C1505 **End Date:** 4th Quarter 2011

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program assists low-income households with installing water-efficient fixtures, such as toilets, showerheads, clothes washers, and faucets. The program implements Ordinance 120532, adopted in 2001, and supplements funding provided under SPU's Regional Water Conservation Program (C1504). Council directed SPU to provide additional funding for measures to reduce personal and commercial water consumption in SPU's direct service area. The project is designed in three phases. Phase One targets low-income housing providers; Phase Two targets subsidized and non-subsidized low-income households; and Phase Three targets clothes washers and irrigation system upgrades for all low-income households. Accelerated commercial and industrial facility and equipment upgrades are done in all three phases and may include reclaimed water projects if cost effective. The confidence level of the cost estimate is low, since it is dependent on customer response.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	930	1,018	1,918	1,816	1,684	1,739	39	0	9,144
Project Total:	930	1,018	1,918	1,816	1,684	1,739	39	0	9,144
Fund Appropriations/Allocations									
SPU Water Fund	930	1,018	1,918	1,816	1,684	1,739	39	0	9,144
Appropriations Total*	930	1,018	1,918	1,816	1,684	1,739	39	0	9,144
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		940	1,918	1,816	1,684	1,739	39	0	8,135

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

2007-2012 Adopted Capital Improvement Program

Security Improvements - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2005
Project ID: C4113-WF **End Date:** 4th Quarter 2012

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project improves security and protection of SPU's Water facilities. Phase one is now substantially complete, with improvements at 23 SPU-occupied sites that substantially reduced risks at many of the most critical facilities. This project represents phase two, which extends this work to further sites and may include installation of key cards, an Integrated Security System, signage, electronic monitoring and security-related infrastructure improvements, as well as upgrades to key, fence, and communication systems. Currently, only 2007 is being budgeted, as SPU's Asset Management Committee will consider a detailed proposal in early 2007. WF improvements may total an additional \$9.2 million through 2012. This project is subject to a Council proviso.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	6,636	0	2,196	0	0	0	0	0	8,832
Project Total:	6,636	0	2,196	0	0	0	0	0	8,832
Fund Appropriations/Allocations									
SPU Water Fund	6,636	0	2,196	0	0	0	0	0	8,832
Appropriations Total*	6,636	0	2,196	0	0	0	0	0	8,832
O & M Costs (Savings)			200	0	0	0	0	0	200

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

SPU - Water

Seismic Upgrade - Cedar River Pipelines at Ginger Creek

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Improved Facility **Start Date:** 1st Quarter 1999
Project ID: C197032 **End Date:** 4th Quarter 2007

Location: Lake Youngs Wy. SE & Kirkland Wy. SE (Renton)

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project upgrades support systems for Cedar River Pipelines 1, 2, and 3 where they cross a boggy area at Ginger Creek so they can better withstand and remain operational after a medium-to-large earthquake. The confidence in the cost estimates is high, and SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	443	1,973	5	0	0	0	0	0	2,421
Project Total:	443	1,973	5	0	0	0	0	0	2,421
Fund Appropriations/Allocations									
SPU Water Fund	443	1,973	5	0	0	0	0	0	2,421
Appropriations Total*	443	1,973	5	0	0	0	0	0	2,421
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		2,100	5	0	0	0	0	0	2,105

Seismic Upgrade - Pipeline Backbone

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Improved Facility **Start Date:** 1st Quarter 2001
Project ID: C101038 **End Date:** 4th Quarter 2010

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** In more than one Urban Village

This program makes seismic improvements to the water distribution system to better ensure water availability following an earthquake. The program includes seismic vulnerability and hydraulic modeling of the system to determine pipeline vulnerabilities, earthquake failure effects on the system, and cost-effective mitigation approaches. For budgeting purposes, it is anticipated that approximately 20 isolation valves will be installed at various locations to prevent vulnerable pipelines from draining the system. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	400	103	51	684	1,369	326	0	0	2,933
Project Total:	400	103	51	684	1,369	326	0	0	2,933
Fund Appropriations/Allocations									
SPU Water Fund	400	103	51	684	1,369	326	0	0	2,933
Appropriations Total*	400	103	51	684	1,369	326	0	0	2,933
O & M Costs (Savings)			0	10	10	10	10	10	50
Spending Plan		50	51	684	1,369	326	0	0	2,480

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

2007-2012 Adopted Capital Improvement Program

SPU - Water

Seismic Upgrade - Tanks

BCL/Program Name: Distribution
Project Type: Improved Facility
Project ID: C1120

BCL/Program Code: C110B
Start Date: 4th Quarter 1994
End Date: 4th Quarter 2011

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This project makes seismic upgrades or replaces above-ground water tanks to improve their performance under seismic conditions and eliminate the risk of major failures. Typical upgrades include improving anchorage and foundations for standpipes, and adding seismic isolators and strengthening braces for elevated tanks supported on steel pillars. This project has been approved by SPU's Asset Management Committee. This project is in a preliminary phase of development for the years beyond 2008, and cost estimates will be revised over time.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,075	1,591	3,510	1,460	0	0	649	0	8,285
Project Total:	1,075	1,591	3,510	1,460	0	0	649	0	8,285
Fund Appropriations/Allocations									
SPU Water Fund	1,075	1,591	3,510	1,460	0	0	649	0	8,285
Appropriations Total*	1,075	1,591	3,510	1,460	0	0	649	0	8,285
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		435	3,510	1,460	0	0	649	0	6,054

Sound Transit – Airport Link - WF

BCL/Program Name: Shared Cost Projects
Project Type: New Facility
Project ID: C4111-WF

BCL/Program Code: C410B
Start Date: 1st Quarter 2007
End Date: 4th Quarter 2008

Location: North Seattle

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program relocates, replaces, and protects water-related facilities affected by the extension of the Sound Transit Central Link light rail system to SeaTac Airport. This extension is located in Tukwila but will impact one or more water transmission lines.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	63	27	0	0	0	0	90
Project Total:	0	0	63	27	0	0	0	0	90
Fund Appropriations/Allocations									
SPU Water Fund	0	0	63	27	0	0	0	0	90
Appropriations Total*	0	0	63	27	0	0	0	0	90
O & M Costs (Savings)			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 in thousands of dollars.*

SPU - Water

Sound Transit – University Link - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: New Facility **Start Date:** 1st Quarter 2007
Project ID: C4110-WF **End Date:** 4th Quarter 2009

Location: North Seattle

Neighborhood Plan: In more than one Plan **Neighborhood Plan Matrix:** Multiple
Neighborhood District: In more than one District **Urban Village:** In more than one Urban Village

This program relocates or replaces water-related facilities affected by the extension of the Sound Transit Central Link light rail system to the University District.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	49	59	46	0	0	0	154
Project Total:	0	0	49	59	46	0	0	0	154
Fund Appropriations/Allocations									
SPU Water Fund	0	0	49	59	46	0	0	0	154
Appropriations Total*	0	0	49	59	46	0	0	0	154
O & M Costs (Savings)			0	0	0	0	0	0	0

Sound Transit - Water Betterment

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2005
Project ID: C405430 **End Date:** 4th Quarter 2012

Location: Central & South areas of Seattle

Neighborhood Plan: In more than one Plan **Neighborhood Plan Matrix:** Multiple
Neighborhood District: In more than one District **Urban Village:** In more than one Urban Village

This project improves water mains and appurtenances (hydrants, valves, coatings, cathodic protection, etc.) related to Sound Transit's light rail projects. These improvements are "opportunity" projects that become available and cost effective as Sound Transit constructs light rail and rebuilds the street right of way. Sound Transit's project will be constructing an electric light rail system which includes an alignment over 14 miles in length from the Convention Place Station to S. 154th Street near Seattle/Tacoma International Airport first. The second length of light rail will progress from the Convention Place Station to Northgate.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	437	2,200	410	420	754	883	1,018	1,044	7,166
Project Total:	437	2,200	410	420	754	883	1,018	1,044	7,166
Fund Appropriations/Allocations									
SPU Water Fund	437	2,200	410	420	754	883	1,018	1,044	7,166
Appropriations Total*	437	2,200	410	420	754	883	1,018	1,044	7,166
O & M Costs (Savings)			0	0	60	60	60	60	240
Spending Plan		1,000	410	420	754	883	1,018	1,044	5,529

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

2007-2012 Adopted Capital Improvement Program

SPU - Water

Sound Transit - WF

BCL/Program Name: Shared Cost Projects

BCL/Program Code: C410B

Project Type: New Facility

Start Date: 1st Quarter 2003

Project ID: C4104-WF

End Date: 4th Quarter 2009

Location: Central & South areas of Seattle

Neighborhood Plan: In more than one Plan

Neighborhood Plan Matrix: Multiple

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program relocates or replaces water-related facilities affected by Sound Transit's Central Link Project. Sound Transit proposes to construct an electrical light rail transit system that includes more than 14 miles of alignment from the Convention Place Station to South 154th Street near Seattle/Tacoma Airport. The City of Seattle, including SPU, has an agreement for partial reimbursement from Sound Transit. Seattle Public Utilities pays for water betterments that are being done in conjunction with the Sound Transit Central Link Project. Sound Transit Water Betterments are listed as a separate capital project on the page prior to this project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	3,002	2,026	612	206	15	0	0	0	5,861
Project Total:	3,002	2,026	612	206	15	0	0	0	5,861
Fund Appropriations/Allocations									
SPU Water Fund	3,002	2,026	612	206	15	0	0	0	5,861
Appropriations Total*	3,002	2,026	612	206	15	0	0	0	5,861
O & M Costs (Savings)			0	0	0	0	50	50	100
Spending Plan		1,206	612	206	15	0	0	0	2,039

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

South Fork Tolt Large Woody Debris Replacement

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 1st Quarter 2004

Project ID: C104057

End Date: 4th Quarter 2011

Location: South Fork Tolt River

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project funds fish habitat conservation efforts on the South Fork Tolt River based on an agreement between the Tolt Fisheries Advisory Groups and the City of Seattle. This project funds SPU's spending obligation pursuant to the 1989 Tolt Settlement Agreement for the federal relicensing of the South Fork Tolt Dam. The allocation of this funding is under the management of the interagency Tolt Fish Advisory Committee (TFAC). In 2004, a project to place large woody debris in the South Fork Tolt River was approved by TFAC and is now in the planning stages. This project improves habitat conditions for salmon and steelhead in the river. In the 2006-2011 Adopted CIP, the project title for the project was Tolt Fisheries Mitigation. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	87	44	3	28	53	48	65	0	327
Project Total:	87	44	3	28	53	48	65	0	327
Fund Appropriations/Allocations									
SPU Water Fund	87	44	3	28	53	48	65	0	327
Appropriations Total*	87	44	3	28	53	48	65	0	327
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	3	28	53	48	65	0	196

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

SPU - Water

South Lake Union - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Improved Facility **Start Date:** 1st Quarter 2004
Project ID: C4114-WF **End Date:** 4th Quarter 2009

Location: South Lake Union

Neighborhood Plan: South Lake Union

Neighborhood Plan Matrix: N/A

Neighborhood District: Lake Union

Urban Village: South Lake Union

This project relocates or replaces watermains, hydrants, water services, and transmission lines affected by City-sponsored projects in the South Lake Union Area. This may also implement watermain decommissioning made necessary by the South Lake Union Streetcar project as well as other relocations and replacements. This effort identifies SPU water system direct impacts, opportunities for system improvements, and cost responsibility. This project also funds planning-level coordination with other City departments on projects within the South Lake Union area. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	171	72	150	99	16	0	0	0	508
Project Total:	171	72	150	99	16	0	0	0	508
Fund Appropriations/Allocations									
SPU Water Fund	171	72	150	99	16	0	0	0	508
Appropriations Total*	171	72	150	99	16	0	0	0	508
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		0	150	99	16	0	0	0	265

Spokane Street Viaduct - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C407023-WF **End Date:** 4th Quarter 2011

Location: Spokane Street Viaduct

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: West Seattle Junction

This program relocates or replaces water-related facilities affected by improvements to the Spokane Street Viaduct. SDOT is widening the Spokane Street Viaduct and adding new ramps. The initial phase will identify water-related impacts from the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	132	135	135	138	141	0	681
Project Total:	0	0	132	135	135	138	141	0	681
Fund Appropriations/Allocations									
SPU Water Fund	0	0	132	135	135	138	141	0	681
Appropriations Total*	0	0	132	135	135	138	141	0	681
O & M Costs (Savings)			0	0	50	50	50	50	200

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

SPU - Water

SR-520 Bridge Replacement - WF

BCL/Program Name: Shared Cost Projects **BCL/Program Code:** C410B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C407021-WF **End Date:** 4th Quarter 2020

Location: SR 520

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** University Campus

This program relocates or replaces water-related facilities affected by the Washington State Department of Transportation's replacement of the SR 520 floating bridge.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	132	135	135	138	141	145	825
Project Total:	0	0	132	135	135	138	141	145	825
Fund Appropriations/Allocations									
SPU Water Fund	0	0	132	135	135	138	141	145	825
Appropriations Total*	0	0	132	135	135	138	141	145	825
O & M Costs (Savings)			0	0	0	0	0	0	0

Stream & Riparian Restoration

BCL/Program Name: Habitat Conservation Program **BCL/Program Code:** C160B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2000
Project ID: C1602 **End Date:** Ongoing

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

Stream and Riparian Restoration is a category of projects within the Cedar River Habitat Conservation Plan (HCP) and includes streambank stabilization, streamside revegetation, large woody debris placement, conifer under-planting, riparian thinning, stream-crossing projects to improve flow, stream-crossing improvements to reestablish fish passage, and bull trout habitat studies. These projects are intended to restore fish and wildlife habitats in the Cedar River Watershed that have been degraded by past activities, such as logging and road construction, and are conditions of the Incidental Take Permit associated with the HCP. SPU's Asset Management Committee has approved the HCP at the program level. The confidence level for this project cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	2,938	890	955	711	685	531	761	568	8,040
Project Total:	2,938	890	955	711	685	531	761	568	8,040
Fund Appropriations/Allocations									
SPU Water Fund	2,938	890	955	711	685	531	761	568	8,040
Appropriations Total*	2,938	890	955	711	685	531	761	568	8,040
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		1,000	955	711	685	531	761	568	5,212

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

SPU - Water

Tolt Bridges

BCL/Program Name: Watershed Stewardship
Project Type: Rehabilitation or Restoration
Project ID: C1308

BCL/Program Code: C130B
Start Date: 1st Quarter 2004
End Date: 4th Quarter 2009

Location: Tolt River Watershed

Neighborhood Plan: Not in a Neighborhood Plan
Neighborhood District: Not in a Neighborhood District

Neighborhood Plan Matrix: N/A
Urban Village: Not in an Urban Village

This project replaces two remaining stream crossings with bridges in the Tolt River Watershed. A cost/benefit analysis determined that access is needed on these roads, and the existing crossings are undersized for stream conditions, posing a risk of road failure with associated safety and environmental risks. The confidence level of the current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	223	22	6	81	263	0	0	0	595
Project Total:	223	22	6	81	263	0	0	0	595
Fund Appropriations/Allocations									
SPU Water Fund	223	22	6	81	263	0	0	0	595
Appropriations Total*	223	22	6	81	263	0	0	0	595
O & M Costs (Savings)			3	3	3	3	3	3	18
Spending Plan		12	6	81	263	0	0	0	362

Tolt Instrument and Warning Upgrade

BCL/Program Name: Water Resources
Project Type: Improved Facility
Project ID: C1AA012

BCL/Program Code: C150B
Start Date: 1st Quarter 1999
End Date: Ongoing

Location: Tolt Dam

Neighborhood Plan: Not in a Neighborhood Plan
Neighborhood District: Not in a Neighborhood District

Neighborhood Plan Matrix: N/A
Urban Village: Not in an Urban Village

This project replaces outmoded equipment and improves the reliability of the required Tolt Instrument and Warning System for detecting dam failure. The project cost estimate has a high confidence level.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	214	47	179	100	32	30	38	32	672
Project Total:	214	47	179	100	32	30	38	32	672
Fund Appropriations/Allocations									
SPU Water Fund	214	47	179	100	32	30	38	32	672
Appropriations Total*	214	47	179	100	32	30	38	32	672
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		100	179	100	32	30	38	32	511

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

SPU - Water

Tolt Pipeline 2 II & III East of Tieline

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Improved Facility **Start Date:** 3rd Quarter 1987
Project ID: C100084 **End Date:** 4th Quarter 2010

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

The project constructed portions of Tolt Pipeline No. 2 between the Trilogy Development and Duvall. It is essentially complete and in service, with environmental restoration and monitoring activities required by permits continuing on for several more years. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	28,224	33	11	6	11	11	0	0	28,296
Project Total:	28,224	33	11	6	11	11	0	0	28,296
Fund Appropriations/Allocations									
SPU Water Fund	28,224	33	11	6	11	11	0	0	28,296
Appropriations Total*	28,224	33	11	6	11	11	0	0	28,296
O & M Costs (Savings)			10	10	10	10	10	10	60
Spending Plan		32	11	6	11	11	0	0	71

Tolt Pipeline 2 II & III West of Tieline

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Improved Facility **Start Date:** 3rd Quarter 1987
Project ID: C100083 **End Date:** 4th Quarter 2008

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

The project constructed portions of Tolt Pipeline No. 2 between Redmond's Education Hill neighborhood and the Trilogy Development. It is essentially complete and in service, with environmental restoration and monitoring activities required by permits continuing on for several more years. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	26,413	5	1	4	0	0	0	0	26,423
Project Total:	26,413	5	1	4	0	0	0	0	26,423
Fund Appropriations/Allocations									
SPU Water Fund	26,413	5	1	4	0	0	0	0	26,423
Appropriations Total*	26,413	5	1	4	0	0	0	0	26,423
O & M Costs (Savings)			20	20	20	20	20	20	120

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SPU - Water

Tolt Pipeline I - Phase 3 - B

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 1999
Project ID: C199003 **End Date:** 4th Quarter 2011

Location: Tolt Pipeline

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project replaced one mile of the original Tolt Pipeline No. 1 spanning the Snoqualmie Valley where it was weakened by corrosion. It is essentially complete and in service, with environmental restoration and monitoring activities required by permits continuing on for several more years. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	5,110	9	6	6	2	2	3	0	5,138
Project Total:	5,110	9	6	6	2	2	3	0	5,138
Fund Appropriations/Allocations									
SPU Water Fund	5,110	9	6	6	2	2	3	0	5,138
Appropriations Total*	5,110	9	6	6	2	2	3	0	5,138
O & M Costs (Savings)			8	10	10	0	0	0	28
Spending Plan		63	6	6	2	2	3	0	82

Tolt Pipeline II - Phase 4

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Improved Facility **Start Date:** 1st Quarter 1995
Project ID: C194029 **End Date:** 4th Quarter 2007

Location: Tolt Pipeline Right of Way

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

The project constructed portions of Tolt Pipeline No. 2 between Woodinville and Lake Forest Park. It is essentially complete and in service, with environmental restoration and monitoring activities required by permits continuing on for several more years. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	28,735	43	8	0	0	0	0	0	28,786
Project Total:	28,735	43	8	0	0	0	0	0	28,786
Fund Appropriations/Allocations									
SPU Water Fund	28,735	43	8	0	0	0	0	0	28,786
Appropriations Total*	28,735	43	8	0	0	0	0	0	28,786
O & M Costs (Savings)			19	24	24	25	27	29	148
Spending Plan		6	8	0	0	0	0	0	14

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Tolt River Watershed Road Improvements

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Improved Facility **Start Date:** 1st Quarter 1996
Project ID: C196007 **End Date:** 4th Quarter 2012

Location: Tolt Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project improves the forest roads in the South Fork Tolt River Watershed. The confidence level of the current cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,383	175	177	173	126	130	156	133	2,454
Project Total:	1,383	175	177	173	126	130	156	133	2,454
Fund Appropriations/Allocations									
SPU Water Fund	1,383	175	177	173	126	130	156	133	2,454
Appropriations Total*	1,383	175	177	173	126	130	156	133	2,454
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		170	177	173	126	130	156	133	1,066

Tolt Watershed Management Plan

BCL/Program Name: Watershed Stewardship **BCL/Program Code:** C130B
Project Type: Improved Facility **Start Date:** 1st Quarter 2005
Project ID: C105083 **End Date:** 4th Quarter 2008

Location: Tolt River Watershed

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project develops a Tolt Watershed Management Plan to bring operations in the Tolt municipal watershed area into alignment with the operation of other major watershed facilities, and to provide guidance for a wide array of management activities into the future. Major elements addressed in the plan include forestland management, facility security and protection, road maintenance and operations, and fish and wildlife management. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	69	206	219	2	0	0	0	0	497
Project Total:	69	206	219	2	0	0	0	0	497
Fund Appropriations/Allocations									
SPU Water Fund	69	206	219	2	0	0	0	0	497
Appropriations Total*	69	206	219	2	0	0	0	0	497
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		210	219	2	0	0	0	0	432

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SPU - Water

Transmission Pipelines Rehabilitation

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2005
Project ID: C1127 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program rehabilitates and upgrades water transmission pipes as deficiencies are identified. The confidence level of the current cost estimate is low. SPU's Asset Management Committee review is not required as it is an ongoing program.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	31	103	679	523	737	761	1,297	1,111	5,242
Project Total:	31	103	679	523	737	761	1,297	1,111	5,242
Fund Appropriations/Allocations									
SPU Water Fund	31	103	679	523	737	761	1,297	1,111	5,242
Appropriations Total*	31	103	679	523	737	761	1,297	1,111	5,242
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		299	679	523	737	761	1,297	1,111	5,407

Treatment Facility/Water Quality Improvements

BCL/Program Name: Water Quality & Treatment **BCL/Program Code:** C140B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2007
Project ID: C107018 **End Date:** Ongoing

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project plans treatment facility and water quality improvement activities prior to the formation of specific capital projects. This work includes development of Strategic Asset Management Plans and Project Development Plans for the Water Quality Program Area, policy analysis, program development, and other work that assists in the identification of potential capital projects and development of concept level scopes and estimates for new capital projects. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	106	153	158	163	195	167	942
Project Total:	0	0	106	153	158	163	195	167	942
Fund Appropriations/Allocations									
SPU Water Fund	0	0	106	153	158	163	195	167	942
Appropriations Total*	0	0	106	153	158	163	195	167	942
O & M Costs (Savings)			0	0	0	0	0	0	0

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Upland Reserve Forest Restoration

BCL/Program Name: Habitat Conservation Program

BCL/Program Code: C160B

Project Type: Rehabilitation or Restoration

Start Date: 2nd Quarter 2000

Project ID: C1603

End Date: Ongoing

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program within the Cedar River Habitat Conservation Plan (HCP) includes restoration planting and restoration and ecological thinning within previously-harvested upland forests. Planting occurs in selected areas of forest to promote the development of more natural and diverse ecological communities of vegetation. Restoration thinning reduces the density of trees to encourage tree growth. Ecological thinning accelerates the development of characteristics of mature forests. Work also includes marbled murrelet surveys and forest inventory and modeling. The inventory is used to plan restoration work, and the modeling is used to project effects of restoration treatments in development of the forest over time. SPU's Asset Management Committee has approved the HCP at the program level. The confidence level for this cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	3,267	887	831	696	594	613	861	671	8,420
Project Total:	3,267	887	831	696	594	613	861	671	8,420
Fund Appropriations/Allocations									
SPU Water Fund	3,267	887	831	696	594	613	861	671	8,420
Appropriations Total*	3,267	887	831	696	594	613	861	671	8,420
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		850	831	696	594	613	861	671	5,116

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SPU - Water

Utility Relocation due to Alaskan Way Viaduct and Seawall Replacement - WF

BCL/Program Name: Shared Cost Projects	BCL/Program Code: C410B
Project Type: New Facility	Start Date: 1st Quarter 2004
Project ID: C4102-WF	End Date: 4th Quarter 2017

Location: SR 99 / Battery St.

Neighborhood Plan: In more than one Plan	Neighborhood Plan Matrix: Multiple
Neighborhood District: In more than one District	Urban Village: In more than one Urban Village

This project relocates, replaces, and protects water system related facilities affected by the replacement of the Alaskan Way Viaduct and Seawall with a new seawall and transportation facility. The Alaskan Way Viaduct is part of State Route 99, which carries 25% of the north-south traffic through downtown Seattle and is a major truck route serving the city's industrial areas. The seawall supports the soils under Alaskan Way and the Viaduct. Both facilities were damaged in the February 28, 2001, Nisqually Earthquake. In Resolution 30726, which was adopted in December 2004, the Mayor and City Council declared a tunnel as their preferred alternative for replacing the existing Viaduct. In September 2006, the City Council passed Ordinance 122246, which reaffirmed the tunnel as the preferred alternative. The Washington State Department of Transportation (WSDOT) is the lead for the project. SPU has substantial water system infrastructure along the approximately four-mile project corridor which must be relocated one or more times during the project. This project designs and constructs these relocations according to the transportation project scope and schedule. The estimated costs shown below are for water system relocations and related service work from 2007-2012. Note that the project will likely extend to about 2016 with a total cost estimate for water of over \$28 million. Given the early stage of the project it is anticipated that scope of work and budget estimates will change as the design progresses. The SPU Asset Management Committee approved the project. See also the Alaskan Way Viaduct and Seawall Replacement project in the Seattle Department of Transportation and Utility Relocation Due to Alaskan Way Viaduct and Seawall Replacement projects in the CIPs for Seattle City Light and SPU Drainage and Wastewater.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	365	765	2,117	7,621	8,122	2,961	2,985	3,264	28,200
Project Total:	365	765	2,117	7,621	8,122	2,961	2,985	3,264	28,200
Fund Appropriations/Allocations									
SPU Water Fund	365	765	2,117	7,621	8,122	2,961	2,985	3,264	28,200
Appropriations Total*	365	765	2,117	7,621	8,122	2,961	2,985	3,264	28,200
O & M Costs (Savings)			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 in thousands of dollars.*

Water Design Standards & Guideline Program

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** 2nd Quarter 2002
Project ID: C102028 **End Date:** 4th Quarter 2008

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: Not in a Neighborhood District **Urban Village:** Not in an Urban Village

This project creates detailed design standards for various types of water facilities in order to streamline future design efforts, reduce costs, and increase the quality of future facilities. The confidence level in the cost estimate is high. SPU's Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	185	258	275	251	0	0	0	0	969
Project Total:	185	258	275	251	0	0	0	0	969
Fund Appropriations/Allocations									
SPU Water Fund	185	258	275	251	0	0	0	0	969
Appropriations Total*	185	258	275	251	0	0	0	0	969
O & M Costs (Savings)			0	0	0	0	0	0	0

Water Infrastructure - Hydrant Replacement/Relocation

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** Ongoing
Project ID: C1110 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan **Neighborhood Plan Matrix:** N/A
Neighborhood District: In more than one District **Urban Village:** In more than one Urban Village

This program replaces older and damaged hydrants to ensure a reliable and adequate supply of water for fire protection. The Seattle Fire Department provides SPU with information on hydrants that are found to be malfunctioning. Other repairs or replacements occur when hydrants are damaged by vehicles. On average, SPU repairs or replaces between seven and 25 hydrants per year. Cost estimates are revised over time, reflecting uncertainty about how many hydrants will be found to be malfunctioning in a given year. The SPU Asset Management Committee has approved the project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,311	233	163	158	242	250	298	255	2,912
Project Total:	1,311	233	163	158	242	250	298	255	2,912
Fund Appropriations/Allocations									
SPU Water Fund	1,311	233	163	158	242	250	298	255	2,912
Appropriations Total*	1,311	233	163	158	242	250	298	255	2,912
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		228	163	158	242	250	298	255	1,596

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

SPU - Water

Water Infrastructure - New Hydrants

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: New Facility **Start Date:** Ongoing
Project ID: C1112 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program provides new fire hydrants citywide. The number of new hydrants installed each year varies with demand. The confidence level of the cost estimate is medium as the Seattle Fire Department determines the number of hydrants that should be added. The project has been approved by the SPU Asset Management Committee.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	177	12	105	108	13	13	16	13	457
Project Total:	177	12	105	108	13	13	16	13	457
Fund Appropriations/Allocations									
SPU Water Fund	177	12	105	108	13	13	16	13	457
Appropriations Total*	177	12	105	108	13	13	16	13	457
O & M Costs (Savings)			0	1	1	1	1	1	5

Water Infrastructure - New Taps

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: New Facility **Start Date:** Ongoing
Project ID: C1113 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program installs new water service lines (taps) from the City watermain to customers' property lines. The confidence level of the current cost estimate is medium as the number of taps is dependent upon customer requests. The SPU Asset Management Committee has approved this project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	21,607	3,708	5,474	4,276	4,633	4,784	5,708	4,888	55,078
Project Total:	21,607	3,708	5,474	4,276	4,633	4,784	5,708	4,888	55,078
Fund Appropriations/Allocations									
SPU Water Fund	21,607	3,708	5,474	4,276	4,633	4,784	5,708	4,888	55,078
Appropriations Total*	21,607	3,708	5,474	4,276	4,633	4,784	5,708	4,888	55,078
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		5,400	5,474	4,276	4,633	4,784	5,708	4,888	35,163

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

SPU - Water

Water Infrastructure - Service Renewal

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** Ongoing
Project ID: C1109 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program replaces water service lines that are substandard, leaking, or have outlived their useful life, and disconnects service lines that are no longer needed. The confidence level of the current cost estimate is high. The Asset Management Committee has approved this project.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	32,727	5,315	6,099	5,345	5,580	5,763	7,265	6,221	74,313
Project Total:	32,727	5,315	6,099	5,345	5,580	5,763	7,265	6,221	74,313
Fund Appropriations/Allocations									
SPU Water Fund	32,727	5,315	6,099	5,345	5,580	5,763	7,265	6,221	74,313
Appropriations Total*	32,727	5,315	6,099	5,345	5,580	5,763	7,265	6,221	74,313
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		5,500	6,099	5,345	5,580	5,763	7,265	6,221	41,771

Water Infrastructure - Watermain Extensions

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: New Facility **Start Date:** Ongoing
Project ID: C1111 **End Date:** Ongoing

Location: Citywide

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program assists private developers to install new standard watermains and fire hydrants that serve properties being developed or re-developed. Once constructed and commissioned, new watermains are turned over to SPU to own, operate, and maintain. Costs incurred by SPU under this program are almost fully reimbursed by the parties triggering the need for the new watermains. The confidence level of the current cost estimate is medium. The program has been approved by SPU's Asset Management Committee.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,339	1,030	1,167	1,126	1,053	1,087	1,297	1,111	9,210
Project Total:	1,339	1,030	1,167	1,126	1,053	1,087	1,297	1,111	9,210
Fund Appropriations/Allocations									
SPU Water Fund	1,339	1,030	1,167	1,126	1,053	1,087	1,297	1,111	9,210
Appropriations Total*	1,339	1,030	1,167	1,126	1,053	1,087	1,297	1,111	9,210
O & M Costs (Savings)			0	5	5	5	5	5	25
Spending Plan		1,000	1,167	1,126	1,053	1,087	1,297	1,111	7,841

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

Water Quality Equipment

BCL/Program Name: Water Quality & Treatment

BCL/Program Code: C140B

Project Type: Improved Facility

Start Date: 1st Quarter 2007

Project ID: C107020

End Date: 4th Quarter 2007

Location: Various

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project purchases and installs on-line water quality monitoring equipment to increase Seattle's capacity to detect and rapidly respond to drinking water contamination events. SPU is actively investigating methods to improve the drinking water quality security and surveillance system. This project would allow for continued improvements. Collaborative research between SPU and United States Environmental Protection Agency (USEPA) will yield specific recommendations for online monitoring equipment (quantity and suggested locations) in 2007. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	166	0	0	0	0	0	166
Project Total:	0	0	166	0	0	0	0	0	166
Fund Appropriations/Allocations									
SPU Water Fund	0	0	166	0	0	0	0	0	166
Appropriations Total*	0	0	166	0	0	0	0	0	166
O & M Costs (Savings)			62	32	32	33	34	35	228

Water Resources Project Development

BCL/Program Name: Water Resources

BCL/Program Code: C150B

Project Type: Improved Facility

Start Date: 1st Quarter 2005

Project ID: C105100

End Date: Ongoing

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project supports the development of potential new projects in SPU's Water Resources Business Area through the preparation of technical evaluation, cost benefit analysis, and the initial Project Development Plan (PDP1). The scope and costs are refined as the project progresses to the preliminary engineering phase.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	73	103	102	102	105	109	130	111	834
Project Total:	73	103	102	102	105	109	130	111	834
Fund Appropriations/Allocations									
SPU Water Fund	73	103	102	102	105	109	130	111	834
Appropriations Total*	73	103	102	102	105	109	130	111	834
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		280	102	102	105	109	130	111	938

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

Water System Dewatering

BCL/Program Name: Transmission **BCL/Program Code:** C120B
Project Type: Rehabilitation or Restoration **Start Date:** Ongoing
Project ID: C1105 **End Date:** Ongoing

Location: Regional

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: Not in an Urban Village

This program improves the configuration of approximately 200 blowoffs as the need arises. Blowoffs are valves and piping located at low points in water pipelines used to drain or flush the line for emergency or maintenance operations. The program's goals include: eliminating or minimizing flooding damage to downstream private property due to blowoff operations; addressing the discharge of water into sensitive streams; requiring monitoring and treatment for impacts due to chlorine, pH, and turbidity; eliminating possible cross-connections; and addressing improvements to water courses to reduce erosion or other damage caused by blowoff operations. The programmatic approach and criteria have been approved by SPU's Asset Management Committee. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	110	58	34	14	158	163	195	167	898
Project Total:	110	58	34	14	158	163	195	167	898
Fund Appropriations/Allocations									
SPU Water Fund	110	58	34	14	158	163	195	167	898
Appropriations Total*	110	58	34	14	158	163	195	167	898
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		250	34	14	158	163	195	167	980

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SPU - Water

Water System Plan - 2007

BCL/Program Name: Water Resources

BCL/Program Code: C150B

Project Type: New Investment

Start Date: 2nd Quarter 2003

Project ID: C103058

End Date: 2nd Quarter 2007

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project conducts an environmental review and updates the 2007 Comprehensive Water System Plan. State regulations require water utilities to submit a new comprehensive water system plan every six years as a condition of state utility operating permit renewal. SPU's Asset Management Committee has approved this project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	487	399	25	0	0	0	0	0	911
Project Total:	487	399	25	0	0	0	0	0	911
Fund Appropriations/Allocations									
SPU Water Fund	487	399	25	0	0	0	0	0	911
Appropriations Total*	487	399	25	0	0	0	0	0	911
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		438	25	0	0	0	0	0	463

Water System Plan - 2013

BCL/Program Name: Water Resources

BCL/Program Code: C150B

Project Type: New Investment

Start Date: 3rd Quarter 2009

Project ID: C113001

End Date: 3rd Quarter 2013

Location: N/A

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project conducts an environmental review and updates the 2013 Comprehensive Water System Plan. State regulations require water utilities to submit a new comprehensive water system plan every six years as a condition of state utility operating permit renewal. This project is in a preliminary phase of development and cost estimates will be revised over time as the scope of the plan is clarified. In the 2006-2011 Adopted CIP, the project ID for the project was C1NW501-006.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	0	0	46	98	389	333	867
Project Total:	0	0	0	0	46	98	389	333	867
Fund Appropriations/Allocations									
SPU Water Fund	0	0	0	0	46	98	389	333	867
Appropriations Total*	0	0	0	0	46	98	389	333	867
O & M Costs (Savings)			0	0	0	0	0	0	0

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Watermain Rehabilitation

BCL/Program Name: Distribution **BCL/Program Code:** C110B
Project Type: Rehabilitation or Restoration **Start Date:** 1st Quarter 2004
Project ID: C1129 **End Date:** Ongoing

Location: Regional

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: In more than one District

Urban Village: In more than one Urban Village

This program replaces and rehabilitates watermain pipelines. The program utilizes asset management principles to provide sustainability of the watermain distribution system infrastructure at the lowest life-cycle costs. Pipes are replaced when the cost of continued repairs exceeds the replacement cost. Alternative methods of rehabilitation, such as clean and cement mortar lining, are utilized when appropriate to provide a more cost-effective option while reducing the impacts to the surrounding community. Other customer levels of service, such as pressure and fire flow, may drive watermain improvements, either by regulation or where cost effective. SPU's Asset Management Committee has approved the project. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	1,115	2,369	1,118	171	4,211	4,349	5,189	4,443	22,966
Project Total:	1,115	2,369	1,118	171	4,211	4,349	5,189	4,443	22,966
Fund Appropriations/Allocations									
SPU Water Fund	1,115	2,369	1,118	171	4,211	4,349	5,189	4,443	22,966
Appropriations Total*	1,115	2,369	1,118	171	4,211	4,349	5,189	4,443	22,966
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		2,370	1,118	171	4,211	4,349	5,189	4,443	21,852

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Watershed Emergency/Opportunity

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: Improved Facility

Start Date: 1st Quarter 2007

Project ID: C107004

End Date: 4th Quarter 2010

Location: Cedar & Tolt River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project provides limited funding for small, unanticipated capital projects to address emergency requirements and take advantage of opportunities in the Cedar River and Tolt River municipal watersheds. History has shown that such situations arise throughout the year with little advance warning. Examples of emergencies include landslides, windstorms, or other severe weather conditions that cause damage to the watershed. Such events would need immediate assessments regarding whether capital expenditures could be required, and possibly immediate, small-scale restoration actions. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	207	201	211	217	0	0	836
Project Total:	0	0	207	201	211	217	0	0	836
Fund Appropriations/Allocations									
SPU Water Fund	0	0	207	201	211	217	0	0	836
Appropriations Total*	0	0	207	201	211	217	0	0	836
O & M Costs (Savings)			0	0	0	0	0	0	0

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Watershed Road Improvement/Decommissioning

BCL/Program Name: Habitat Conservation Program

BCL/Program Code: C160B

Project Type: Rehabilitation or Restoration

Start Date: 1st Quarter 2001

Project ID: C1601

End Date: Ongoing

Location: Cedar River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This program improves some roads and decommissions others in conjunction with the Cedar River Habitat Conservation Plan (HCP). The goal is to protect stream and riparian habitats and forest ecosystems. These projects are based on analyses and designs for the control of water flowing on, under, or adjacent to forest roads, and the removal of unstable soils within the road prism. Control of water and unstable soils minimizes sediment delivery to streams from roads, and improves drainage patterns. The SPU Asset Management Committee has approved the HCP at the program level. The confidence level for this cost estimate is high.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	4,411	890	940	824	781	811	824	715	10,196
Project Total:	4,411	890	940	824	781	811	824	715	10,196
Fund Appropriations/Allocations									
SPU Water Fund	4,411	890	940	824	781	811	824	715	10,196
Appropriations Total*	4,411	890	940	824	781	811	824	715	10,196
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		950	940	824	781	811	824	715	5,845

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Watershed Vegetation Management Plan

BCL/Program Name: Watershed Stewardship

BCL/Program Code: C130B

Project Type: New Investment

Start Date: 1st Quarter 2007

Project ID: C107015

End Date: 4th Quarter 2011

Location: Cedar & Tolt River Watershed

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: Not in a Neighborhood District

Urban Village: Not in an Urban Village

This project develops two plans for vegetation management in the Cedar River Watershed. The first plan is for the control of non-native, invasive plants (weeds) throughout the watershed to meet legal requirements and limit ecological damage to wetlands and other habitats. The second plan is for cooperative management of the power transmission line right-of-way with Seattle City Light. The goal is to create stable communities of native plants that will provide for electrical safety but maintain habitat for wildlife and protect sensitive wetlands and other habitats. In both cases, work may include inventory of the vegetation and conditions in areas of concern, development of a plan, and the testing of techniques for vegetation management to find the most cost-effective approaches for long-term operations and maintenance. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	0	0	103	49	37	38	26	0	252
Project Total:	0	0	103	49	37	38	26	0	252
Fund Appropriations/Allocations									
SPU Water Fund	0	0	103	49	37	38	26	0	252
Appropriations Total*	0	0	103	49	37	38	26	0	252
O & M Costs (Savings)			0	0	0	0	20	20	40

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SPU - Water

WSDOT Sound Walls

BCL/Program Name: Distribution

BCL/Program Code: C110B

Project Type: Improved Facility

Start Date: 1st Quarter 2004

Project ID: C104019

End Date: 4th Quarter 2008

Location: I-5/E Roanoke

Neighborhood Plan: Not in a Neighborhood Plan

Neighborhood Plan Matrix: N/A

Neighborhood District: East District

Urban Village: Not in an Urban Village

This project responds to impacts to a 20-inch water line by the Washington State Department of Transportation's project to install sound walls along the I-5 corridor. The confidence level of the cost estimate is medium.

	LTD	2006	2007	2008	2009	2010	2011	2012	Total
Revenue Sources									
Water Rates	7	0	149	53	0	0	0	0	209
Project Total:	7	0	149	53	0	0	0	0	209
Fund Appropriations/Allocations									
SPU Water Fund	7	0	149	53	0	0	0	0	209
Appropriations Total*	7	0	149	53	0	0	0	0	209
O & M Costs (Savings)			0	0	0	0	0	0	0
Spending Plan		215	149	53	0	0	0	0	417

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2007-2012 Adopted Capital Improvement Program

