

Seattle Public Utilities Water Fund Proposed 2015-2020 Capital Improvement Program

Attachment 4a

Shading indicates changes since 4/1/2014 Draft

5/28/2014, for 6/5/2014 OB

Row	Allocation	Program Area	Project Name (Red = New Projects since 2014 CIP)	Sum of Previous Years Actuals (2013 and earlier)	2014 Spending Projections (as of 5/15/14)	2015	2016	2017	2018	2019	2020	Sum of Remaining Costs (2021 and beyond)	Total Project Cost **	
1	Existing	Water Resources	Tolt Ring Gate Upgrade	\$0	\$0	\$725,000	\$732,000	\$740,000	\$0	\$0	\$0	\$0	\$2,197,000	
2	Supply		Overflow Dike Improvements	\$125,031	\$0	\$1,480,000	\$2,053,000	\$0	\$0	\$0	\$0	\$0	\$3,658,031	
3			Morse Lake Pump Plant	\$14,537,938	\$2,641,219	\$9,054,097	\$18,231,719	\$5,496,409	\$0	\$0	\$0	\$0	\$0	\$49,961,382
4		Habitat Conservation Program	Watershed Road Improvements	\$1,404,596	\$262,168	\$514,600	\$519,292	\$524,078	\$528,959	\$533,939	\$539,017	--	--	
5			Watershed Road Decommissioning	\$1,424,870	\$532,166	\$575,000	\$587,000	\$599,000	\$611,000	\$623,000	\$635,000	--	--	
6			Riparian Conifer Underplanting	\$720,803	\$11,000	\$12,000	\$12,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	--	--
7			LWD Replacement in Streams	\$816,050	\$134,014	\$90,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	--	--
8			Riparian Restoration Thinning	\$522,248	\$43,000	\$14,000	\$14,000	\$14,000	\$15,000	\$15,000	\$15,000	\$15,000	--	--
9			Bank Revegetation	\$408,185	\$19,052	\$13,000	\$8,000	\$8,000	\$8,200	\$8,400	\$8,500	\$8,500	--	--
10			Passage for Peak Flows	\$338,704	\$107,157	\$30,000	\$35,000	\$35,000	\$36,000	\$37,000	\$37,000	\$37,000	--	--
11			Bank Stabilization	\$182,518	\$68,003	\$45,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	--	--
12			Upland Restoration Planting	\$737,148	\$44,156	\$18,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	--	--
13			Upland Ecological Thinning	\$1,558,179	\$145,007	\$80,000	\$82,000	\$84,000	\$86,000	\$87,000	\$89,000	\$89,000	--	--
14			Hatchery Spring Water Redundancy	\$0	\$0	\$20,000	\$100,000	\$400,000	\$100,000	\$80,000	\$0	\$0	\$0	\$700,000
15			Sockeye Broodstock Weir	\$0	\$0	\$50,000	\$150,000	\$44,000	\$2,600,000	\$50,000	\$0	\$0	\$0	\$2,894,000
16			Freshwater Conservation (Ballard Locks)	\$357,676	\$0	\$200,000	\$200,000	\$200,000	\$200,000	\$0	\$0	\$536,000	\$0	\$1,693,676
17			Dwnstrm Habit Prot-Instrm Flws	\$5,849,563	\$276,479	\$274,000	\$200,000	\$200,000	\$0	\$0	\$0	\$0	\$0	\$6,800,042
18			Dwnstrm Habit Prot-Lndsbrg Mit	\$1,494,430	\$0	\$450,000	\$595,000	\$332,010	\$241,000	\$0	\$0	\$0	\$0	\$3,112,440
19			Walsh Creek-Rock Creek Confluence Enhancement Project	\$1,012,460	\$10,000	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,032,460
20			Chinook Studies	\$1,270,480	\$171,745	\$208,080	\$212,242	\$216,486	\$220,816	\$225,232	\$229,737	\$229,737	--	--
21			Watershed Stewardship	Cedar Bridges	\$0	\$0	\$1,000	\$1,000	\$1,000	\$250,000	\$250,000	\$100,000	--	--
22				Tolt WS Road Improvements	\$238,364	\$15,122	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23		CRW Contamination Remediation		\$0	\$0	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$300,000
24		RSL Sanitary Facilities		\$0	\$0	\$110,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$110,000
25		Tolt Bridge Chuck Judd Cr		\$0	\$0	\$0	\$200,000	\$200,000	\$0	\$0	\$0	\$0	\$0	\$400,000
26		Tolt Bridge Siwash Creek		\$0	\$0	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$500,000
27		Transmission	Lake Youngs Road Improvements	\$27,169	\$67,199	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$99,368
28		Shared Cost Projects	Cedar Falls Building Imprvmts	\$46,873	\$107,908	\$112,600	\$100,000	\$75,000	\$50,000	\$50,000	\$50,000	\$0	\$0	\$12,620,373
29			Landsburg Facilities Development	\$3,284,344	\$6,153,470	\$3,132,559	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$14,360,883
30			Cedar Falls Facilities Development	\$315,646	\$590,237	\$1,200,000	\$1,220,000	\$6,538,000	\$4,430,000	\$67,000	\$0	\$0	\$0	\$14,360,883
31			Tolt Building Imprvmts	\$69,492	\$81,516	\$85,000	\$100,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	--	--
32			Lake Youngs Building Imprvmts	\$91,367	\$80,868	\$73,200	\$100,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	--	--
33			Materials Supply Inventory Reg'l	\$192,409	\$532,982	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$775,391
34	Existing Supply Total				\$37,026,542	\$12,094,468	\$18,737,136	\$25,958,253	\$16,300,983	\$9,620,975	\$2,270,571	\$2,483,254	\$0	\$101,473,531
35	Existing	Water Quality & Treatment	Maple Leaf Reservoir Seismic	\$153,118	\$1,057,853	\$7,036,000	\$1,008,029	\$0	\$0	\$0	\$0	\$0	\$0	\$9,255,000
36	Transmission		Reservoir Covering-L Forest Pk	\$0	\$0	\$0	\$0	\$0	\$0	\$590,000	\$1,200,000	\$10,370,000	\$12,160,000	
37			Tolt Slide Improvements	\$0	\$0	\$0	\$750,000	\$1,127,000	\$1,149,000	\$1,172,000	\$1,195,000	\$0	\$0	\$5,393,000
38			Tolt Slide Toe Stabilization	\$61,938	\$280,502	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$362,440
39			Transmission Pipelines Rehab	\$0	\$250,000	\$1,082,450	\$1,104,117	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	--	--
40			CRPL4 at Airport Expressway CP	\$41,115	\$5,305	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$49,420
41			Tolt ROW/Road Improvements	\$89,930	\$32,606	\$80,000	\$90,000	\$0	\$0	\$0	\$0	\$0	\$0	\$202,536
42			Shared Cost Projects	Maple Leaf Gatehouse	\$297,240	\$975,824	\$40,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
43	Existing Transmission Total				\$643,340	\$2,602,090	\$8,261,450	\$2,862,146	\$1,377,000	\$1,399,000	\$2,012,000	\$2,645,000	\$10,370,000	\$28,735,460
44	Individual	Transmission	Purveyor Meters	--	\$252,110	\$200,000	\$204,000	\$208,000	\$213,000	\$218,000	\$223,000	--	--	
45	Individual Purveyors Total				--	\$252,110	\$200,000	\$204,000	\$208,000	\$213,000	\$218,000	\$223,000	--	--
46	SW Subregion	Water Quality & Treatment	West Seattle Reservoir Seismic	\$2,158,317	\$1,923,610	\$2,717,073	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$6,809,000
47	SW Subregion Total				\$2,158,317	\$1,923,610	\$2,717,073	\$10,000	\$0	\$0	\$0	\$0	\$0	\$6,809,000
48	Various*	Water Resources	Dam Safety	--	\$0	\$300,000	\$200,000	\$200,000	\$800,000	\$800,000	\$200,000	--	--	
49		Water Quality & Treatment	Treatment Facility/WQ Improve	\$208,491	\$220,898	\$204,550	\$250,000	\$234,464	\$250,000	\$250,000	\$480,000	\$480,000	--	--
50		Transmission	System Dewatering Program	--	\$20,000	\$50,000	\$24,000	\$25,000	\$27,000	\$30,000	\$33,000	--	--	
51			Cathodic Protection (CP)	--	\$205,600	\$724,000	\$1,040,000	\$320,000	\$1,060,000	\$330,000	\$1,080,000	--	--	
52			Replace Air Valve Chambers	--	\$4,000	\$122,318	\$124,766	\$124,766	\$127,000	\$130,000	\$132,651	--	--	
53		Shared Cost Projects	SCADA WF Imprv Phase 2	--	\$355,000	\$480,000	\$480,000	\$480,000	\$480,000	\$480,000	\$480,000	\$480,000	--	--
54			Integrated Security Syst - WF	--	\$74,535	\$700,000	\$700,000	\$700,000	\$700,000	\$300,000	\$700,000	--	--	
55			Integrated Security System	--	\$900,000	\$150,000	\$150,000	\$150,000	\$150,000	\$900,000	\$150,000	--	--	
56		SR 520 Corridor Project-WF	--	\$0	\$0	\$50,000	\$50,000	\$300,000	\$500,000	\$500,000	--	--		
57	Various Total				--	\$1,780,033	\$2,730,868	\$3,018,766	\$2,284,230	\$3,894,000	\$3,720,000	\$3,755,651	--	--
58	New Supply	Water Resources	Regional Conservation Indoor	\$754,122	\$826,223	\$838,562	\$855,333	\$872,440	\$889,889	\$907,687	\$925,840	--	--	
59			Regional Conservation Outdoor	\$132,910	\$173,268	\$162,302	\$165,548	\$168,859	\$172,236	\$175,681	\$179,195	--	--	
60			Regional Conservatn Commercial	\$884,275	\$830,103	\$838,562	\$855,333	\$872,440	\$889,889	\$907,687	\$925,840	--	--	
61	New Supply Total				\$1,771,307	\$1,829,594	\$1,839,426	\$1,876,214	\$1,913,739	\$1,952,014	\$1,991,055	\$2,030,875	--	--
62	Grand Total				\$41,599,507	\$20,481,904	\$34,485,953	\$33,929,379	\$22,083,952	\$17,078,989	\$10,211,626	\$11,137,780	\$10,370,000	\$137,017,990

Notes: \*Projects indicated as 'Various' involve work on multiple facilities. Costs for these projects will be included in regional or subregional cost pools to the extent that work is done on a regional or subregional facility.  
 \*\*All amounts are in inflated dollars.

Projected Rate Impact of Seattle Public Utilities Water Fund Proposed 2015-2020 Capital Improvement Program

Attachment 4B

Demand used in calculations same as presented on April 3, 2014

5/28/2014, for 6/5/2014 OB

Row	Allocation	Program Area	Project Name (Red = New Projects since 2014 CIP)	Accounting balance in Work In-Progress as of 12/31/13****	Closing year of assets	Assumed accounting life	Percentage assumed to regional/subregional rates	Effect on 2015 rates	Effect on 2016 rates	Effect on 2017 rates	Effect on 2018 rates	Effect on 2019 rates	Effect on 2020 rates	
1	Existing	Water Resources	Tolt Ring Gate Upgrade	\$0	2017	30	100%	\$ -	\$ -	\$ 0.002	\$ 0.004	\$ 0.004	\$ 0.004	
2	Supply		Overflow Dike Improvements	\$126,957	2020	50	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.004
3			Morse Lake Pump Plant	\$5,212,077	2016 & 2017	50	100%	\$ -	\$ 0.039	\$ 0.058	\$ 0.060	\$ 0.059	\$ 0.058	
4		Habitat Conservation Program ****	Watershed Road Improvements	\$37,822	various***	20	100%	\$ 0.001	\$ 0.002	\$ 0.003	\$ 0.004	\$ 0.005	\$ 0.006	
5			Watershed Road Decommissioning	\$12,859	various***	20	100%	\$ 0.001	\$ 0.002	\$ 0.003	\$ 0.005	\$ 0.006	\$ 0.007	
6			Riparian Conifer Underplanting	\$0	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
7			LWD Replacement in Streams	\$0	various***	10	100%	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	
8			Riparian Restoration Thinning	\$0	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
9			Bank Revegetation	\$0	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10			Passage for Peak Flows	\$0	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.001	
11			Bank Stabilization	\$0	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	
12			Upland Restoration Planting	\$0	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13			Upland Ecological Thinning	\$0	various***	10	100%	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	
14			Hatchery Spring Water Redundancy	\$0	2019	30	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	
15			Sockeye Broodstock Weir	\$0	2019	10	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.003	\$ 0.008	
16			Freshwater Conservation (Ballard Locks)	\$0	2020	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.002	
17			Dwnstrm Habit Prot-Instm Flws	\$9,439	2016	10	100%	\$ -	\$ 0.001	\$ 0.002	\$ 0.002	\$ 0.002	\$ 0.002	
18			Dwnstrm Habit Prot-Lndsbrg Mit	\$0	2015	10	100%	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	
19		Walsh Creek-Rock Creek Confluence Enhancement Pr	\$0	2015	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
20		Chinook Studies	\$0	various***	10	100%	\$ 0.001	\$ 0.001	\$ 0.002	\$ 0.002	\$ 0.003	\$ 0.003		
21		Watershed Stewardship	Cedar Bridges	\$0	various***	75	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	
22			Tolt WS Road Improvements	\$12,876	2015	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
23			CRW Contamination Remediation	\$0	2017	20	100%	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	
24			RSL Sanitary Facilities	\$0	2015	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
25			Tolt Bridge Chuck Judd Cr	\$0	2017	75	100%	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	
26		Tolt Bridge Siwash Creek	\$0	2017	75	100%	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001		
27		Transmission	Lake Youngs Road Improvements	\$27,358	2015	20	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
28		Shared Cost Projects	Cedar Falls Building Imprvmts	\$0	various***	30	100%	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	
29			Landsburg Facilities Development	\$3,284,344	2016	30	100%	\$ -	\$ 0.014	\$ 0.022	\$ 0.021	\$ 0.021	\$ 0.020	
30			Cedar Falls Facilities Development	\$329,692	2019	30	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.016	\$ 0.025	
31			Tolt Building Imprvmts	\$0	various***	30	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	
32			Lake Youngs Building Imprvmts	\$0	various***	30	100%	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	
33			Materials Supply Inventory Reg'l	\$199,018	2015	10	100%	\$ 0.001	\$ 0.002	\$ 0.002	\$ 0.002	\$ 0.002	\$ 0.002	
34	Existing Supply Total			\$9,252,442				\$ 0.004	\$ 0.062	\$ 0.098	\$ 0.108	\$ 0.133	\$ 0.154	
35	Existing	Water Quality & Treatment	Maple Leaf Reservoir Seismic	\$153,735	2016	67	100%	\$ -	\$ 0.010	\$ 0.013	\$ 0.013	\$ 0.013	\$ 0.012	
36	Transmission		Reservoir Covering-L Forest Pk	\$0	2022	20	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
37			Transmission	Tolt Slide Improvements	\$0	2020	50	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.006
38				Tolt Slide Toe Stabilization	\$63,438	2015	20	100%	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001
39				Transmission Pipelines Rehab	\$0	various***	25	100%	\$ 0.002	\$ 0.004	\$ 0.004	\$ 0.005	\$ 0.005	\$ 0.005
40				CRPL4 at Airport Expressway CP	\$41,874	2015	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
41			Tolt ROW/Road Improvements	\$90,057	2015	20	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
42		Shared Cost Projects	Maple Leaf Gatehouse	\$316,454	2015	30	100%	\$ 0.001	\$ 0.002	\$ 0.002	\$ 0.002	\$ 0.002	\$ 0.002	
43	Existing Transmission Total			\$665,557				\$ 0.003	\$ 0.017	\$ 0.020	\$ 0.021	\$ 0.021	\$ 0.026	
44	Individual	Transmission	Purveyor Meters	--	various***		N/A, not rate based	N/A	N/A	N/A	N/A	N/A	N/A	
45	Individual Purveyors Total													
46	SW Subregion	Water Quality & Treatment	West Seattle Reservoir Seismic	\$2,203,432	2016	67	8%	\$ -	\$ 0.008	\$ 0.010	\$ 0.010	\$ 0.010	\$ 0.010	
47	SW Subregion Total			\$2,203,432				\$ -	\$ 0.008	\$ 0.010	\$ 0.010	\$ 0.010	\$ 0.010	
48	Various*	Water Resources	Dam Safety	--	various***	50	100%	\$ -	\$ 0.001	\$ 0.001	\$ 0.002	\$ 0.003	\$ 0.004	
49		Water Quality & Treatment	Treatment Facility/WQ Improve	\$30,069	various***	10	50%	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.002	\$ 0.002	
50		Transmission	System Dewatering Program	\$20,240	various***	20	50%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
51			Cathodic Protection (CP)	\$78,385	various***	20	80%	\$ 0.001	\$ 0.003	\$ 0.003	\$ 0.005	\$ 0.005	\$ 0.007	
52			Replace Air Valve Chambers	\$723	various***	20	50%	\$ -	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	
53			Shared Cost Projects	SCADA WF Imprv Phase 2	--	various***	10	50%	\$ 0.001	\$ 0.001	\$ 0.002	\$ 0.003	\$ 0.003	\$ 0.004
54				Integrated Security Syst - WF	--	various***	10	50%	\$ 0.001	\$ 0.002	\$ 0.003	\$ 0.004	\$ 0.004	\$ 0.005
55				Integrated Security System	--	various***	10	50%	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.002	\$ 0.002
56			SR 520 Corridor Project-WF	--	various***	50	50%	\$ -	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	
57	Various Total			\$129,416				\$ 0.003	\$ 0.008	\$ 0.011	\$ 0.016	\$ 0.021	\$ 0.026	
58	New Supply	Water Resources	Regional Conservation Indoor	--	various***	10	Not rate based	N/A	N/A	N/A	N/A	N/A	N/A	
59			Regional Conservation Outdoor	--	various***	10	Not rate based	N/A	N/A	N/A	N/A	N/A	N/A	
60			Regional Conservatn Commercial	--	various***	10	Not rate based	N/A	N/A	N/A	N/A	N/A	N/A	
61	New Supply Total													
62	Grand Total			\$12,250,848										

Notes: \*Projects indicated as 'Various' involve work on multiple facilities. Costs for these projects will be included in regional or subregional cost pools to the extent that work is done on a regional or subregional facility.  
 \*\*All amounts are in inflated dollars. Total project costs are shown for those projects where costs will be allocated when project goes online.  
 \*\*\* Assume annual closing for the sake of rate calculation.  
 \*\*\*\* The cost of the HCP thinning projects would be reduced by the timber revenues received, but that is not factored into the estimate of initial rate impact.