

WASTEWATER TREATMENT DIVISION (WTD) COMPLETED CAPITAL PROJECTS

#	(A) Project Name/Description	(B) Completed Within AACE Level of Certainty	(C) Conceptual Planning Estimate (\$s in Millions) ¹	(D) Conceptual Planning Estimate Inflation Adjusted to Year of Completion (\$s in Millions) ²	(E) Baseline Cost Estimate (\$s in Millions) ⁴	(F) % Cost Variance (Final cost compared to inflation adjusted Conceptual Cost) ³	(G) Final Cost (\$s in Millions)	(H) Identified in 1999 RWSP
1	Auburn Facilities Assessment (Lakehand Hills, BI Diamond, 423363)	Y	\$11.0	\$12.0	N/A	-48%	\$6.3	N
2	Odor Control at South Plant, Project Number 104865	Y	\$10	\$13.0	N/A	-39%	\$7.9	Y
3	Reclaimed Water Backbone Project #: 1037543	Y	\$26.0	\$32.9	\$28	-29%	\$23.2	N
4	Decennial Flow Monitoring, Project Number - 1037793	Y	\$5.4	\$5.7	N/A	-26%	\$4.2	N
5	Off-line Storage at North Creek, Project Number 1048032	Y	\$29.9	\$35.6	N/A	-20%	\$28.5	Y
6	Fairwood Interceptor, Project Number 1037597	Y	\$21.6	\$24.3	N/A	-10%	\$21.9	Y
7	Pacific Pump Station Project Number 1037676	Y	\$7.8	\$8.6	N/A	-9%	\$7.8	N
8	Wilburton Siphon Parallel Project Number 1047914	Y	\$3.9	\$4.8	N/A	-8%	\$4.4	Y
9	Mill Creek Relief Sewer [277th St.] Project Number 1047637	Y	\$21.9	\$26.9	N/A	-8%	\$24.8	Y
10	Swamp Creek, Project number 1047974	Y	\$6.1	\$7.1	N/A	0%	\$7.1	Y
11	Juanita Pump Station, Project Number 1038220	Y	\$33.1	\$39.6	\$37	4%	\$41.1	N
12	Hidden Lake PS/Boeing Trunk; Project Number 1047952	Y	\$28.5	\$33.0	N/A	11%	\$36.7	N
13	Chinook Wetlands Enhancement	Y	\$3.0	\$3.0	N/A	17%	\$3.5	N
14	York Pump Station & Power Reliability, Project Number 1037713	Y	\$5.6	\$7.0	N/A	21%	\$8.5	Y
15	Vashon Treatment Plant Upgrade, Project Number 103756	Y	\$16.7	\$17.1	N/A	36%	\$23.3	N
16	Bellevue Pump Station, Project Number 1038223	Y	\$21.	\$25.8	\$21	38%	\$35.7	Y
17	Carnation Treatment Plant, Project Number 1037629	Y	\$12.2	\$13.8	N/A	52%	\$21.0	N
18	Brightwater Treatment System	Y	\$782.6	\$1.2 B	\$1.8 B	58%	\$1.9 B	Y
19	Kent/Auburn Conveyance Improvements Project Number 1037514 (formerly known as Southwest Interceptor)	N	\$34.5	\$47.8	\$22	-67%	\$15.9	N
20	Odor Control at West Point, Project Number 1038265	N	\$3.5	\$3.9	N/A	-64%	\$1.4	N
21	Bellevue Influent Trunk Parallel, Project Number 1037545	N	\$2.5	\$3.0	\$7	113%	\$6.4	N
22	King St. Regulator Odor Control	N	\$1.0	\$1.1	\$5.90	536%	\$7.0	N

1) Cost stated in dollars for the year the project was first identified.

2) Presents column C (or C') costs with escalation compounded annually at 3% to year of completion.

3) Comparison of cost from inflated current CIP to inflated conceptual planning cost is for illustrative purposes only - it does not account for changes in the project definition, estimating standards or even true inflation. Intended to demonstrate how the projects compare to very preliminary planning projections assuming an acceptable cost range of +100% to -50%.

4) WTD starting setting baselines for projects in 2008, a baseline is set at the completion of pre-design for the selected alternative.

WASTEWATER TREATMENT DIVISION (WTD) ACTIVE PROJECTS

#	(A) Project Name/Description	(B) Expected Completion Within AACE Level of Certainty (Yes/No)	(C) Conceptual Planning Estimate (M \$s) ¹	(C') 2012 CSO Plan (Plan presented in 2010 M \$'s)	(D) Conceptual Planning Estimate Inflation Adjusted to 2014 (M \$s) ²	(E) Current CIP Cost Estimate (2014 M \$s)	(E') Current Cost Est. Escalated to Yr. of Cmpltn. (M \$s)	(F) % Cost Variance from Esc. Current ³	(G) Baseline Cost Estimate ^{1,4} (M \$s)	(H) Identified in 1999 RWSP (Y/N)
1	Lake Hills Trunk Replacement	Y	\$15.0	N/A	\$71.6	\$35.8	\$42.7	-40%	TBD	N
	NW Lake Sammamish Interceptor Parallel (see Lake Hills Trunk Replacement - Projects Merged)	Y	\$23.5	N/A	(incl. in Lk. Hills above)	N/A	N/A	N/A	N/A	N
2	Auburn Interceptor (also known as Kent-Auburn Phase B), Project Number 1123632	Y	\$27.3	N/A	\$43.8	\$25.4	\$26.2	-40%	TBD	N
3	Michigan 2.2 MG storage/treatment tank, Project Number 1121402 (Now Called Georgetown Wet Weather Treatment Station)	Y	\$32.4	\$139.7	\$193.4	\$177.2	\$217.9	13%	TBD	Y
	Brandon 0.8 MG storage/treatment tank, Project Number 1121402 (See Michigan Project above - Projects Merged into one Project Now called Georgetown Wet Weather Treatment Station)	Y	\$13.1	(incl. in above for Michigan)	N/A	N/A	N/A	N/A	N/A	Y
4	West Point Digestion Improvements, Project Number 1037511	Y	\$4.0	N/A	\$6.1	\$7.1	\$6.9	14%	\$10	N
5	Sunset/Heathfield Pump Stations Replacement and Force Main Upgrade Project Number 1038122	Y	\$51.0	N/A	\$94.9	\$99.7	\$119.0	25%	TBD	N
6	North Creek Interceptor, Project Number 1114382	Y	\$25.8	N/A	\$42.6	\$57.9	\$61.4	44%	\$57	N
7	Barton Pump Station (PD) Upgrade, Project Number 1038127	Y	\$8.3	N/A	\$15.4	\$21.6	\$22.2	44%	\$23	Y
8	Hanford at Rainier 0.6 MG storage tank (Rainier Valley Wet Weather Facility), Project #1116802	Y	\$3.3	\$19.2	\$25.8	\$33.3	\$39.8	54%	\$32	Y
9	North Mercer and Enatai Interceptors Project Number 1116800	N	\$24.9	N/A	\$49.1	\$82.4	\$104.4	112%	TBD	Y
10	South Magnolia 1.3 MG storage tank	N	\$6.0	N/A	\$11.2	\$49.1	\$50.6	352%	\$46	Y
11	Murray 0.8 MG storage tank, Project Number 1038126	N	\$4.5	N/A	\$8.6	\$50.4	\$53.5	520%	\$50	Y
12	North Beach storage tank & PS upgrade, Project Number 1038449	N	\$3.5	N/A	\$6.5	\$23.9	\$24.6	278%	\$21	Y

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WASTEWATER TREATMENT DIVISION (WTD) PLANNED PROJECTS

#	(A) Project Name/Description	(B) Identified in 1999 RWSP	(C) Conceptual Planning Estimate Inflation Adjusted to 2014 \$\$	(D) Cost Estimate from 2012 CSO Plan Update (in 2014 \$\$)	(E) Comments
1	Coal Creek Siphon and Trunk Parallel	Y	\$9.0M		In the original RWSP cost estimates, this project was referred to as Coal Creek R13-25 to R13-20 and Coal Creek RE13-17 to R02-28. Project initiation will start in 2015
2	NORTH CREEK: NC3-A; now called Lower North Creek Interceptor Parallel	Y	\$12.4M		The 2007 CSI Program Update estimated the construction of this project would occur in the 2031-2050 timeframe. The 2015 CSI Program update will re-evaluate the future need of this project.
3	ETS Storage	Y	\$25.8M		The 2007 CSI Program update noted that this project was no longer needed prior to 2030 due to revised flow management practices
4	Tukwila Freeway Crossing, Project Number 1048003	Y	\$5.8M		Analysis on the need for this project was done in 2004. At that time, updated population and flow details confirmed that the pipe sections in this project area have capacity. \$60,709 was expended during the analysis of the project need.
5	South Plant Expansion in 2029	Y	\$134.3M		2013 RWSP Comprehensive Review noted that a full expansion of South Plant is unlikely to be needed in 2029; loadings capacity may be needed in the mid-2030s.
6	University 7.523 MG storage tank	Y	\$85.9M	\$51.0 M	The Council-approved CSO control program update in 2012 identified two projects: a joint County/City University storage project for \$45.24M (2010\$); and a joint County/City Montlake Storage project for \$95.35 M (2010\$). The current CIP includes two GSI projects - University GSI project (#1121410) at \$16.6M, and the Montlake GSI project (1121411) at \$15.7M. The goal of these projects is to achieve some CSO control through GSI and reduce the size and cost of the gray portions needed.
7	Montlake 7.78 MG storage tank	Y	N/A	\$107.4 M	See University 7.523 MG storage tank
8	Hanford #2 3.3 MG storage/treatment tank	Y	\$44.8M *	\$304.8 M	The Council-approved CSO control program update in 2012 identified one project in place of the 1999 Hanford, Lander, Connecticut, King projects. The one project is referred to as Hanford #2-Lander St-King St.-Kingdome. The planning-level estimate for the updated project is \$270.8 M (2010\$), or \$304.8M (2014\$)
9	Lander 1.5 MG storage/treatment tank	Y	\$41.7M *		
10	Connecticut (aka Kingdome) 2.1 MG storage/treatment tank	Y	\$51.1M *		
11	King Street conveyance to Connecticut	Y	\$5.1M *		
12	Chelan 4.0 MG storage tank	Y	\$29.4M *	\$58.2 M	The Council-approved CSO control program update in 2012 noted the planning-level cost estimate for the project is \$51.7M (2010\$), or \$58.2M (2014\$).
13	8th Ave. S 1.0 MG storage tank	Y	\$11.0M		This CSO has been identified as controlled; additional monitoring is under way to confirm the control status. Because of this, there is no project associated with this CSO in the 2012 Council-approved plan.
14	W Michigan conveyance expansion	Y	\$0.6M		The Council-approved CSO control program update in 2012 identified one project in place of the W. Michigan and Terminal 115 projects. The 2015/16 CIP includes a GSI project associated with these CSO sites. This is project number 1121409, with a cost of \$11 M. The goal of this project is to achieve some CSO control through GSI and reduce the size and cost of the gray portions needed. Project costs updated to reflect escalated 2014 dollars, new cost estimating guidelines, and increased overhead costs.
15	Terminal 115 0.5 MG storage tank	Y	\$6.3M	\$16.7 M	Merged with W Michigan conveyance expansion
16	3rd Ave W 5.0 MG storage tank	Y	\$45.5M	\$57.4 M	The Council-approved CSO control program update in 2012 identified a joint County-City of Seattle project to control both County and City CSOs in this basin. The approved plan identified the planning-level cost of this project as \$50.96M (2010\$).
17	11th Ave NW 2.0 MG storage tank	Y	\$20.8M	\$26.7 M	The Council-approved CSO control program update in 2012 noted that the planning-level cost estimate for this project is \$23.7M.
18	Algona Pacific Trunk Stage 1	N	\$5.7M		Project identified as part of the 2007 CSI Program Update process
19	Richmond Beach Storage	N	\$17.7M		Project identified as part of the 2007 CSI Program Update process
20	Factoria Pump Station and Trunk Diversion	N	\$12.9M		Project identified as part of the 2007 CSI Program Update process
21	Eastgate Parallel Pipe Storage	N	\$30.1M		Project identified as part of the 2007 CSI Program Update process

WASTEWATER TREATMENT DIVISION (WTD) PLANNED PROJECTS

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22	Bryn Mawr Storage	N	\$11.0M		Project identified as part of the 2007 CSI Program Update process
23	Medina Storage	N	\$1.4M		Project identified as part of the 2007 CSI Program Update process
24	South Renton Interceptor Parallel	N	\$4.6M		Project identified as part of the 2007 CSI Program Update process
25	SW Alaska 0.7 MG storage tank	Y	\$7		The SW Alaska Street project is no longer needed; updated monitoring and modeling data indicated that this CSO is already controlled. Control was achieved through transferring flows to the Alki Wet Weather Treatment Plant.
26	Issaquah Interceptor Section 2 Parallel	N	\$3.5M		Project identified as part of the 2007 CSI Program Update process
27	Norfolk 0.8 (MG) storage tank	Y	\$9		CSO need was controlled through transfers to the South Treatment Plant in 1998.
28	WP Pri/Sec enhancements due to increased CSO flows	Y	\$27.1M		May not be needed