

Accelerated Implementation of Broadview and South Park Projects

Focus Area: Operational Excellence
Strategic Objective: Service quality
Owner: Andrew Lee, Gary Schimek

Summary of proposed action

Accelerate the implementation of already-planned infrastructure improvements to reduce surface flooding, sewer backups, and related human health, safety and property damage issues in the South Park and Broadview neighborhoods.

Description of the problem this action solves

- Recurring surface flooding and sewer backups in the Broadview neighborhood in NW Seattle and the South Park neighborhood in the Duwamish basin.
- Underperforming and inadequate drainage and wastewater infrastructure due to historical development patterns in these areas.
- This action plan will increase funding in order to accelerate implementation of planned work to address chronic problems in these two areas.

Benefits of the proposed action

- Reduce street flooding, surface flooding and sewer backups for the residents and visitors in the South Park and Broadview neighborhoods.
- In the South Park neighborhood, accelerated capital work under this Action Plan will, by 2020, bring us roughly half-way to the desired service level of no more than one serious flood every 25 years. (Additional funding of about \$15M - 20M will be needed to complete the work.) Under the baseline funding, work in South Park would likely extend until 2030 or 2040. With the Action Plan, work can be completed ten years earlier.
- In the Broadview neighborhood, accelerated capital work under this Action Plan will address about 50% of the area's flooding and sewer back-up problems (up from an estimated 33% solution in the Baseline) by 2020. Under the baseline funding, work in Broadview would likely extend until 2030-2040. With the Action Plan, work could be completed between 2020 and 2030.

More detailed description of the proposed action

South Park: The South Park Pump Station and Water Quality Project, currently under way and funded in the Baseline, will construct a new water quality facility to treat stormwater flowing into the Duwamish River, as well as a new stormwater pump station to alleviate surface water flooding in the lower South Park basin during high tides. To completely solve the existing severe flooding problem in the basin, additional capital improvements are needed to improve the pipe conveyance system and carry water to the new pump station. The DWW baseline capital program includes a \$1.5M project to start this work; this Action Plan provides \$2M of additional funding to accelerate conveyance (i.e., new stormwater pipelines) improvements.

Accelerated Implementation of Broadview and South Park Projects

Broadview: In the Broadview basin, a project is under way to solve flooding and sewer backup problems. More than \$70M of sewer and drainage improvements have been identified to address the basin’s problems. Between 2012 and 2017, about \$22 M has been budgeted in the baseline, which would address about 30% of the needed work. This Action Plan would provide additional funding to accelerate the system improvements by \$2 M per year from 2015 – 2020, which will enable completion of Broadview sewer and drainage improvements (e.g., pipeline upsizing, new underground storage, side sewer improvements, and natural drainage systems) approximately ten years earlier than would be possible under baseline funding.

Implementation plan and timeline

	2015	2016	2017	2018	2019	2020
South Park		\$2M	\$2M	\$2M	\$2M	\$2M
Broadview		\$2M	\$2M	\$2M	\$2M	\$2M

Budget and FTE Changes (in \$000s)

Fund: Drainage & Wastewater

	2015	2016	2017	2018	2019	2020	Total
O&M Labor	-	-	-	-	-	-	\$0
O&M Non-Labor	-	-	-	-	-	-	\$0
<i>O&M Subtotal</i>	0	0	0	0	0	0	\$0
CIP		4,000	4,000	4,000	4,000	4,000	\$20,000
<i>Total O&M and CIP</i>	\$0	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$20,000
FTE	0.0	0.0	0.0	0.0	0.0	0.0	

Plan for evaluating success or progress

- % completion of Broadview and South Park capital projects
- Attainment of flooding and sewer back-up service levels for Broadview and South Park residents