

TO: Public Works Committee
FROM: Dan Smith, Director – Water Resources & Sustainability
DATE: September 22, 2022
SUBJECT: Somerset Stormwater Project Briefing

1) Recommended Action:

None. This item is for discussion only.

2) Background:

High velocity flows and an undersized culvert along Somerset Hill Drive at Percival Creek have contributed to the erosion of the creek slope, placing a 6-inch sewer main at risk of failure. In addition, a 100-foot tall Grand Fir tree sits within the eroding area increasing instability of the slope and placing the sewer main at greater risk.

Immediate issues are focused on potential tree removal, slope protection and evaluating the relocation of the sewer main from the top of slope. Staff, in coordination with Landau Associates, have conducted a baseline assessment to recommend next steps.

Short term remedies include determining if the sewer main can be relocated approximately 6-8 ft. from its existing position, and assessing if the Grand Fir should be removed and if so what implications could follow. We will also review viable solutions for temporary slope armoring (e.g., sandbags, woody debris, Ecoblock) for the eroding slope.

Regardless of the success of immediate actions, a longer-term resolution is needed to ensure slope stability and protection of utility services in the area, culvert replacement will need to be considered concurrently due to the timeline to design, permit, and complete this work. Culvert replacement is not a current project in the 2022-2027 Capitol Facilities Plan.

3) Policy Support:

- Be a Leader in Environmental Sustainability
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4) Alternatives:

- ☐ None
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5) Fiscal Notes:

Costs associated with each element are to be determined, dependent upon direction.

6) Attachments:

- A. Area Map