



CITY OF PORTLAND ENVIRONMENTAL SERVICES



1120 SW Fifth Avenue, Room 1000, Portland, Oregon 97204 ■ Ted Wheeler, Mayor ■ Michael Jordan, Director

To Mike Jordan
From Shannon Reynolds
CC: Bill Ryan, Elisabeth Reese-Cadigan
Date January 27, 2020
Project Commentary on the 2010 Tryon Basin Study Area Sewer Hydraulics Characterization Technical Memo

A sewer system characterization analysis completed in 2010 (attached) as part of the Sanitary Sewer System Plan identified the following risks for the Tryon Creek sewer system:

- The Tryon Basin system currently has adequate capacity to convey flows for existing conditions with no risk of failure.
- There is a moderate increase in risk when the system is analyzed under Future Conditions (based on the Comprehensive Plan future development estimates).

The increased risk for the future condition is due to insufficient capacity in the Tryon Basin system, primarily due to capacity restrictions at the Tryon Creek Wastewater Treatment Plant (TCWTP). Infiltration and inflow (I/I) at specific areas within the basin contributes to these capacity issues at TCWTP. Any solution to the capacity risk in this basin needs to target reducing I/I issues. Upsizing the Tryon Creek Interceptor, which conveys flow from the basin to the TCWTP, likely would exacerbate these capacity risk at the plant and will not resolve the capacity issues associated with I/I.

To address the I/I issues, it is recommended that a flow monitoring program be initiated for the Tryon Creek Basin to monitor I/I rates. BES will use flow monitor data to prioritize locations for capital improvement projects if I/I rates are shown to be increasing.