

Vulnerabilities

BITP STRUCTURES AT RISK

Utilidor

Electrical equipment and piping

Headworks

Influent pumps, back-up generator, and motor control centers

Effluent Pumping

Pumps and electrical

Substations

LOTT substations and PSE substation

COMBINED STORM/SEWER SYSTEM

351 acres and 200 catch basins

Increased peak flows to BITP from combined system



Sea Level Rise Response Plan

BUDD INLET TREATMENT PLANT (BITP) LOTT Clean Water

Actions to Date

COMPLETED 2014 VULNERABILITY ASSESSMENT FOR BITP

ADDRESSED SEA LEVEL RISE RISK PROJECT BY PROJECT

LOTT Regional Services Center (2010) Raised elevation by 1 foot

Primary Sedimentation Basins (2014) New electrical substation constructed 1.5 feet higher than usual

Service Entry Switchgear (2016)

- Watertight conduit
- Watertight enclosures
- Raised base elevation by 1.5 feet





AFTER

Next Steps and Goals

- Complete joint Sea Level Rise Response Plan to protect entire BITP through broader downtown effort
- Complete a detailed vulnerability assessment of plant electrical systems
- Coordinate with PSE to ensure protection of Thurston Ave substation
- Develop design standards for future projects to minimize vulnerabilities
- Better understand risk of increased peak flows from combined storm/sewer system
- Identify potential actions to protect plant from both overland flooding and the combined system



