



COMBINED SEWER OVERFLOW FACT SHEET

Fore Street-Eastern Promenade Sewer Separation Project

Project:	Fore Street-Eastern Prom Sewer Separation Project
Project Owner:	City of Portland
Project Engineer:	Woodard and Curran
Project Location:	Fore Street/Eastern Promenade from Mountfort to Morning Street
Sewershed:	India Street Pump Station
CSO's Impacted:	CSO #23 India Street Pump Station
Year Contracted:	TBD
Bid Amount:	2020 Estimate: \$4,000,000
Bid Date:	Bidding in the Spring of 2021
Prime Contractor:	Will be determined after bidding

Project Description: In 2013, the City continued their efforts with reduction of combined sewer overflows (CSOs) to Casco Bay with the development of the Tier III Long Term Control Plan (LTCP).

To accomplish the goals of the LTCP, the water resources division of Public Works is pursuing the sewer and wastewater separation of Fore Street and Eastern Promenade between Mountfort Street and Morning Street. A combined sewer conveys both wastewater sewer and stormwater sewer flows in the same pipe. During rain storms flows in the combined sewer lines exceed their capacity and overflow at Combined Sewer Overflow (CSO) locations in order to prevent sewage from backing up into homes and businesses. Constructing new storm drains in the area will reduce the amount of flow in the combined sewer pipes during rain events. The drainage area being separated as part of this project contributes to combined sewer overflows (CSOs) at CSO location #23 which overflows into Portland Harbor near the Ocean Gateway Ferry Terminal. Overflows from this CSO range from 5-15 million gallon annually. The goal of the project is to significantly reduce the volume and frequency of CSO activity at this location. According to hydraulic modeling completed as part of the City's recently completed water resources integrated plan process, this project is anticipated to reduce annual CSO discharge volume in an average year by approximately 50% upon completion.

In order to accomplish this separation, the project will separate stormwater from the existing combined sewer system into a dedicated separated storm drain system. This project will remove approximately 17 acres of watershed area from the existing combined sewer system. The project will install approximately 3,600 feet of storm drain/combined sewer pipe between the new 100 Fore Street development driveway and Morning Street. Segments of the 100+

year old combined sewer system has been identified as in need of replacement and will be replaced during the project. The Portland Water District will also be replacing their 100+ year old drinking watermain in the project zone as part of the project.

Green Infrastructure will be installed along the project zone to provide water quality treatment for approximately 55% of stormwater drainage area within the Fore Street-Eastern Promenade right of way. Green Infrastructure systems are typically vegetated areas designed to collect stormwater runoff and filter the water through a soil filter which is designed to remove stormwater pollutants such as sediment, hydrocarbons as a result of oil/gas residue from vehicles and nutrients such as phosphorus and nitrogen. Once the stormwater has been treated, it will be conveyed through the new storm drain system and discharged into Portland Harbor via a new storm drain outfall which was installed as part of the Thames Street Extension project completed in 2019. The treatment systems can also be installed below the ground surface to provide underground treatment. In total this project will install 9 new Green Infrastructure systems within the project zone providing nearly two acres of stormwater watershed area treatment.

As of February 2021 the project has received City of Portland water resources Capital Improvement Plan (CIP) funding approval. The project is scheduled to be advertised for bidding in the spring of 2021. It's anticipated that construction will commence in the early summer months of 2021.