

IMPACT STATEMENT

Legislation title: *Authorize a contract with the lowest responsive bidder for construction of the Riverside Basin CSO Pipe Emergency Repair, Project No E10844 for \$738, 675 (Ordinance)

Contact name: Scott Gibson, PE

Contact phone: 503-823-7615

Presenter name: Scott Gibson, PE

Purpose of proposed legislation and background information:

Two 106-year old sewer pipe segments on Swan Island are severely deteriorated and require immediate repair. The upstream segment is a 32-inch diameter concrete pipe that crosses under the UPRR mainline and switching rails. The downstream segment (immediately downstream) is a 42-inch diameter pipe that crosses under a truck/transfer building used by UPRR as a yard maintenance facility. The pipes lie within a public sewer easement that crosses UPRR property.

The 106-year old pipes have exceeded their life expectancy. The failure mode is concrete corrosion, typical of concrete pipes that receive sewage from steeply pitched sewers like those on N Going Street. Cement and aggregate loss in the pipe walls has allowed pits and holes to develop. Steel reinforcement is exposed and rusted away.

The sewer pipes function as CSO overflow pipes. They're positioned downstream of low-flow diversions which send sanitary flow to the Swan Island Pump Station. A further low-flow diversion occurs downstream of these two segments. Flow from these pipes enters the Willamette through an outfall pipe near Ashgrove Cement Co.

The sewers lie in a critical location for the function of our CSO system. They also lie in a critical location crossing under a railroad. Because of the consequential nature of the pipe, BES has sought and received an emergency declaration to provide emergency repair to the two pipes.

Financial and budgetary impacts:

There is no direct budget impact with this project. The project will be funded through the "Large Diameter Sewer Rehabilitation Program", which is a funded project within BES's Capital Improvement Program.

The cost estimate of the project is \$738,675. The level of confidence is high as the contract price is known.

No changes to Bureau revenue and staff positions are expected.

Community impacts and community involvement:

This Emergency Sewer Repair Project will design and install a cured-in-place pipe liner to stabilize two segments of severely deteriorated 32-inch and 42-inch combined sewer overflow pipes (AAQ109 to AAT606) which cross under Union Pacific main rail lines, staging tracks, and an office building on Swan Island. The two pipe segments total about 1,050 feet in length. Lining may need to be extended an additional 35 feet to reach an accessible manhole. The project will require the removal and replacement of at least one manhole to gain access for the liner and diversion of flows.

The project is considered an emergency due to the amount of wall deterioration, the collapsing/ovaling of the pipe, and the consequence of failure of the pipe beneath the primary north-south Union Pacific rail line. There is urgency to stabilize the pipe during the upcoming dry weather season.

The majority of the construction will take place on UPRR property located away from the public and will not directly affect any residents or businesses.

The effect of this work will be seen mostly by traffic (including freight) exiting Swan Island. The city will post and distribute a traffic advisory to alert commuters and businesses to, from and on Swan Island. The city will contact the Swan Island Business Association and partner with them for distribution of the traffic advisory and project information to their email distribution list.

Budgetary Impact Worksheet

Does this action change appropriations?

- ☐ **YES:** Please complete the information below.
☐ **NO:** Skip this section

Fund	Fund Center	Commitment Item	Functional Area	Funded Program	Grant	Sponsored Program	Amount



CITY OF PORTLAND ENVIRONMENTAL SERVICES



1120 SW Fifth Avenue, Room 1000, Portland, Oregon 97204 ■ Nick Fish, Commissioner ■ Michael Jordan, Director

April 15, 2016


Christine Moody, CPO
Chief Procurement Officer
City of Portland, Procurement Services
1120 SW 5th Avenue, Room 700
Portland, OR 97204

Re: Emergency Declaration for a BES Sewer Repair Project

The Bureau of Environmental Services (BES) has determined that a threat to property, health and safety exists due to a failing 42-inch diameter sewer main under the Union Pacific Railroad Albina Yard tracks, adjacent to N Going Street. This main conveys combined sewage from the Overlook area, including The Adidas Campus, to the Swan Island CSO Pump Station. This Emergency Declaration is to provide temporary stabilization of the main through a Cured-In-Place Pipe (CIPP) installation while the city develops alternatives, and prepares final plans, specifications and bid the construction for its replacement.

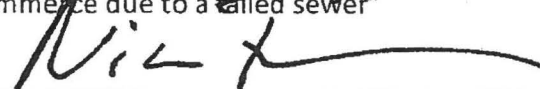
Per Title 5 of the City Code and Charter, the Commissioner-in-Charge of the Bureau of Environmental Services can authorize the City to enter into an Emergency Procurement Contract to perform this work. The Estimate for this Emergency contract is \$750,000, with a low level of confidence.

Thank you for your prompt attention to this matter. Please contact me if you have any questions.

 Stephen J. Hawkins P.E., Maintenance Engineer
Wastewater Collection System, Maintenance Engineering
503-823-6597

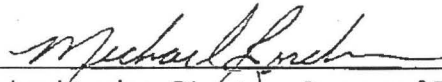
Emergency Declaration

"I, Nick Fish, hereby declare that an emergency exists that threatens public health, safety, and commerce due to a failed sewer"




Nick Fish, City Commissioner

4/21/16
Date


Michael Jordan, Director – Bureau of Environmental Services

4/21/16
Date


Bill Ryan, Chief Engineer – Bureau of Environmental Services

4/20/16
Date