FYI

Community Benefit Opportunity (CBO) Program

East Side CSO construction affects 11 neighborhoods between SE McLoughlin Boulevard and 17th and the Columbia Boulevard Wastewater Treatment Plant in north Portland. Environmental Services awarded $1.77 million dollars in CBO grants to fund these community projects.

- Friends of Trees planted over 650 street trees along the entire East Side CSO project alignment.
- SOLV removed invasive plants, planted native plants and willow stakes along the stream bank between the Hampton Opera Center and OMSI. (pictured above)
- Save Our Elms inoculated and pruned nearly 100 American Elms and other historic trees in Ladd's Addition.
- OMSI installed a state-of-the-art mobile stream table which includes urban features and a triple water source.
- The Buckman Neighborhood Mural depicts historic features and neighborhood landmarks with a sustainability theme.
- Colonel Summers Community Garden has expanded to provide 24 new garden plots.
- There are new Swan Island Trail Additions, SE 11th and Clay curb extensions, and a Learning Garden at Humboldt Elementary.
- The Lower Columbia Slough Water Trail Landing and the June Key Delta Community Center Landscape Project received CBO money.

Portsmouth Force Main

Construction of this 66-inch diameter, three-mile pressurized sewer pipe begins this summer. The force main will carry combined stormwater and sewage collected by the West and East Side Big Pipes from the Swan Island Pump Station to the existing Portsmouth Tunnel. The tunnel will carry combined flows by gravity to the Columbia Boulevard Wastewater Treatment Plant. Construction will be complete in December 2011.

For More Information on the CBO program or Portsmouth project

If you have questions or would like to be added to the mail or email update list for the Portsmouth Force Main project or the CBO program, contact Debbie Caselton at 503-823-2831 or debbiec@bes.ci.portland.or.us.

ENVIRONMENTAL SERVICES
CITY OF PORTLAND
1120 SW Fifth Avenue, Room 1000
Portland, Oregon 97204-1912

Dan Saltzman, Commissioner
Dean Marriott, Director

East Side
Big Pipe

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East Side BIG PIPE
FOR A CLEANER RIVER

UPDATE

The Tunnel Boring Machine arrives at the River Street Shaft

2.5 miles of Big Pipe tunnel and many of the outfall pipelines and manholes are complete.

East Side BIG PIPE
FOR A CLEANER RIVER

Creating a Clean and Healthy River
Portland uses a coordinated, comprehensive approach to improve water quality in the lower Willamette River. The city works to reduce water and sediment pollution, improve watershed health, restore habitat for endangered salmon and steelhead, and eliminate most combined sewer overflows (CSOs) into the river. CSOs occur nearly every time it rains in Portland. During a CSO, stormwater quickly fills the combined sewers, which carry both sanitary sewage and runoff from streets, parking lots and rooftops. CSOs contain bacteria from untreated sewage as well as other pollutants in stormwater runoff. Environmental Services controlled CSOs to the Columbia Slough in 2000 (99% reduction) and will reduce CSOs to the Willamette by 94% by 2011.

ENVIRONMENTAL SERVICES
CITY OF PORTLAND
working for clean rivers

UPDATE

ENVIRONMENTAL SERVICES CITY OF PORTLAND **SUMMER 2009**

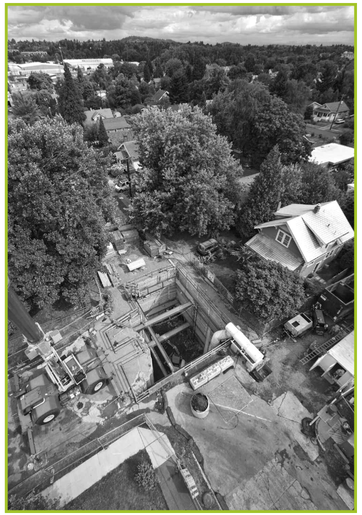
Combined Sewer Overflow (CSO) Program

The East Side Big Pipe Project

Environmental Services broke ground on the East Side Big Pipe Project in spring 2006. The project includes constructing a 6-mile long, 22-foot diameter tunnel, seven tunnel shafts, and 9,000 feet of new pipelines. It is the last tunnel project in Portland's 20-year program to control combined sewer overflows (CSOs).

When the East Side Big Pipe is complete in September 2011, Portland's combined sewers will overflow to the Willamette River on average only a few times a year during very heavy rainstorms, instead of overflowing nearly every time it rains.

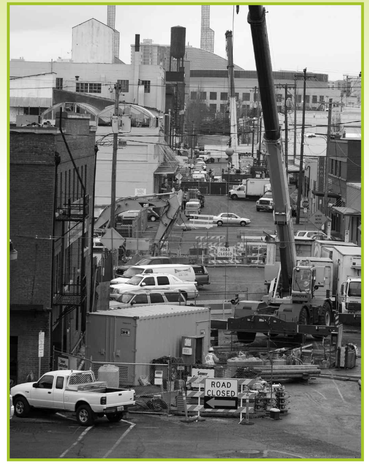
The $426-million project is slightly ahead of schedule and under budget. Work is about 65% complete. The tunnel-boring machine (TBM) "Rosie" has constructed more than 2.5-miles of CSO tunnel.



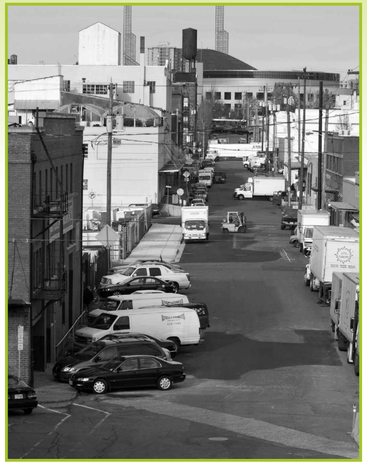
Project Highlights

Insley connecting pipeline (pictured at right) ➤

Construction of a connecting pipeline is complete and the road and intersection are open again after a one-and-a-half year closure. Our thanks to neighbors around SE 18th and Insley for their patience during this work.



The 84-inch installation was a large project on SE 3rd Avenue



Work on SE 3rd Avenue is complete and the street is restored with new paving

Tunnel and Shafts

Rosie the TBM is currently tunneling north of the Fremont Bridge. Rosie is scheduled to reach the Port Center Shaft on Swan Island in September 2009, which will complete the north drive. East Side Big Pipe contractor Kiewit-Bilfinger Berger (KBB) will lift the TBM out of the Port Center Shaft and return it to the Opera Shaft to prepare to begin the south drive to SE 17th and McLoughlin.

Port Center Shaft (Swan Island) - Workers are preparing for the arrival of the TBM this September.

River Street Shaft (N River Street) - Work continues to connect existing CSO outfall pipes to the East Side Big Pipe.

Steel Bridge Shaft (N Interstate near the Rose Quarter) - Work to complete the shaft will resume in March 2010 and be complete by June 2010.

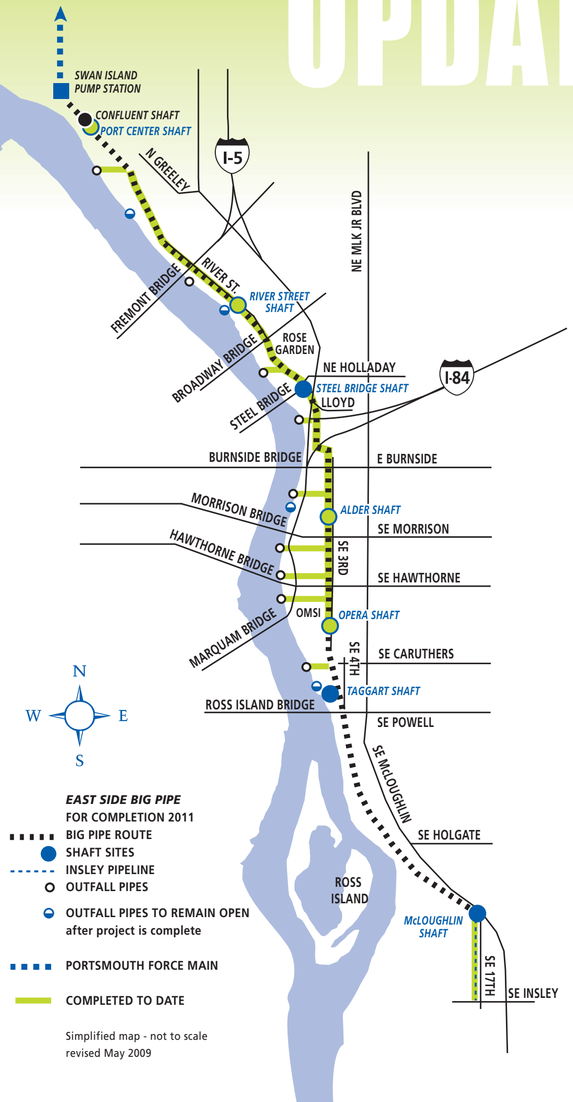
Alder Shaft (SE MLK and Alder) - Work to complete the shaft will begin in February 2010 and be complete by May 2010.

Opera Shaft (SE Water and Caruthers) - This is the mining shaft where workers, equipment, and supplies enter and leave the tunnel, and where excavated materials leave the tunnel. The Opera Shaft will remain active throughout the project.

Taggart Shaft (SE McLoughlin and Taggart) - Remaining work includes completing the interior liner.

McLoughlin Shaft (SE 17th and McLoughlin) - Excavation is complete. The next phase is constructing the concrete bottom of the shaft this summer.

UPDATE



Pipelines and Structures

Most of the work to connect existing sewers to the East Side Big Pipe is complete. There is still work to do on a final pipeline and three diversion structures at SE 3rd and Stark, and diversion structures at SE 3rd and Oak and SE 3rd and Pine. The contractor will schedule this work during dry weather either this summer or in summer 2010.

Workers will return to all outfall construction sites in summer 2011 to connect outfalls to the new pipelines that will convey combined sewage to the East Side Big Pipe.

Outfall 28 (SE 18th and Insley) - Construction crews have restored curbs, sidewalks and streets. The street open to traffic.

Outfall 30 (SE McLoughlin and Taggart) - Work at this location will resume in 2011.

Outfall 36 (SE Alder and MLK Boulevard) - This work is complete and SE Alder Street is open to through traffic.

Outfall 37 (SE 3rd and Stark) - Construction crews will complete pipeline installation this July.

Outfall 38-2 (SE 3rd and Pine) - Manhole construction will begin this September and take about two months to complete.

Outfall 38-3 (SE 3rd and Oak) - Manhole construction will begin this September and take about two months to complete.

Outfall 40 (under the I-5 and I-84 Interchange) - Construction of this diversion structure will be complete this summer.

Outfall 41 (triangle pedestrian island at Rose Quarter) - Construction of this diversion structure will be complete in June.

Outfall 43 (south of River Street) - Work on the diversion structure starts this month and will be complete next summer.

Outfall 44A (N River and Randolph) - Work on the diversion structure is underway and will be complete in fall 2009. (Road Closure - Construction has closed N River Street at N Randolph Street until this fall. Northbound traffic is detoured to N Randolph Street. Southbound traffic is detoured to N Lewis Street.)

Outfall 46 (N River Street at Ash Grove Cement) - There is currently no work at this location.

For More Information on the Big Pipe Project

- **Call:** Diana Hinton at 503-823-2827
- **On-street assistance:** Joe Annett at 503-823-6313
- **Printed Updates:** mailed regularly
- **Emailed Updates**: send your email address to dianah@bes.ci.portland.or.us
- **Presentations:** free, open to the public, and scheduled as there is interest-contact Debbie Caselton at 503-823-2831 or debbiec@bes.ci.portland.or.us
- **Online:** www.cleanriverworks.com
- **Exhibit:** visit the updated interactive CSO Exhibit at OMSI (Oregon Museum of Science and Industry)

To help ensure equal access to city programs, services and activities, the city will reasonably accommodate persons with disabilities. Call 503-823-7740 or 1-800-735-2900 with such requests. TDD 503-823-6868.

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