

Bedford Street Sewer Separation Project

Neighborhood Meeting

January 11th, 2018



Neighborhood Meeting Agenda

- Introductions
- Combined sewer overflow overview
- Back Cove West service area and CSO #16 description
- Project goals
- Project description
- What to expect during construction
- Utility coordination
- Sequencing of the project
- Individual project discussion



Question: What is a combined sewer?

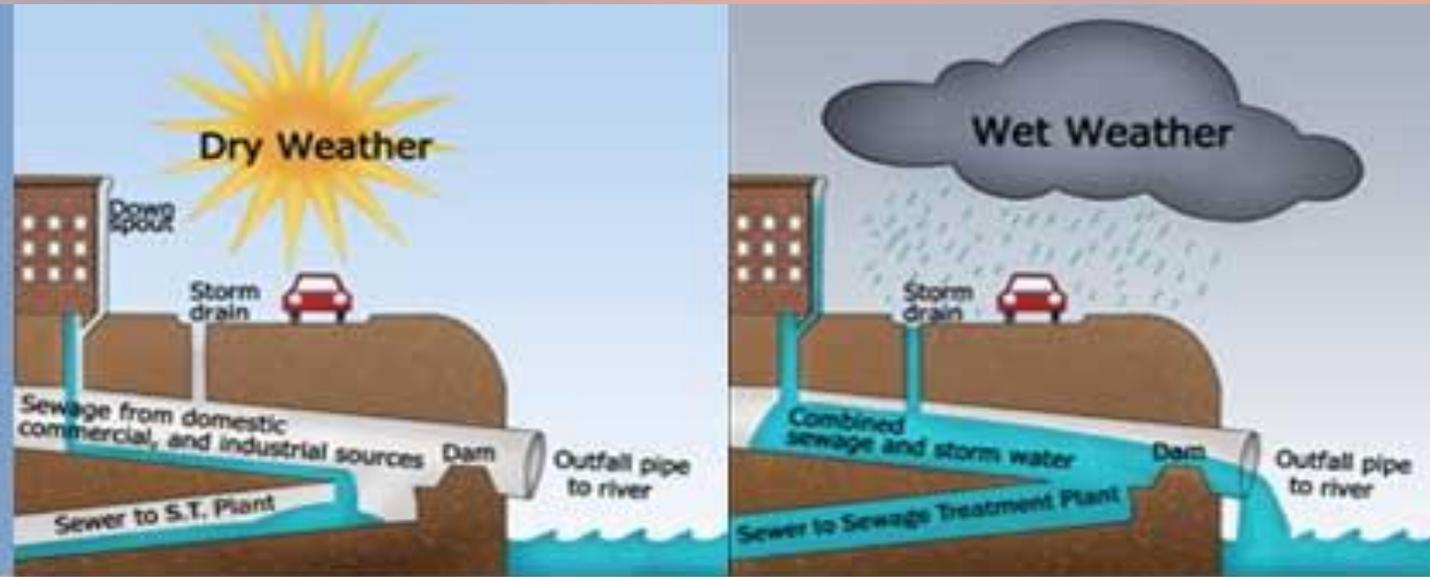
Answer: A combined sewer conveys both sanitary sewer flows along with storm water (rain water) flows.

Question: What is a separated storm drain sewer?

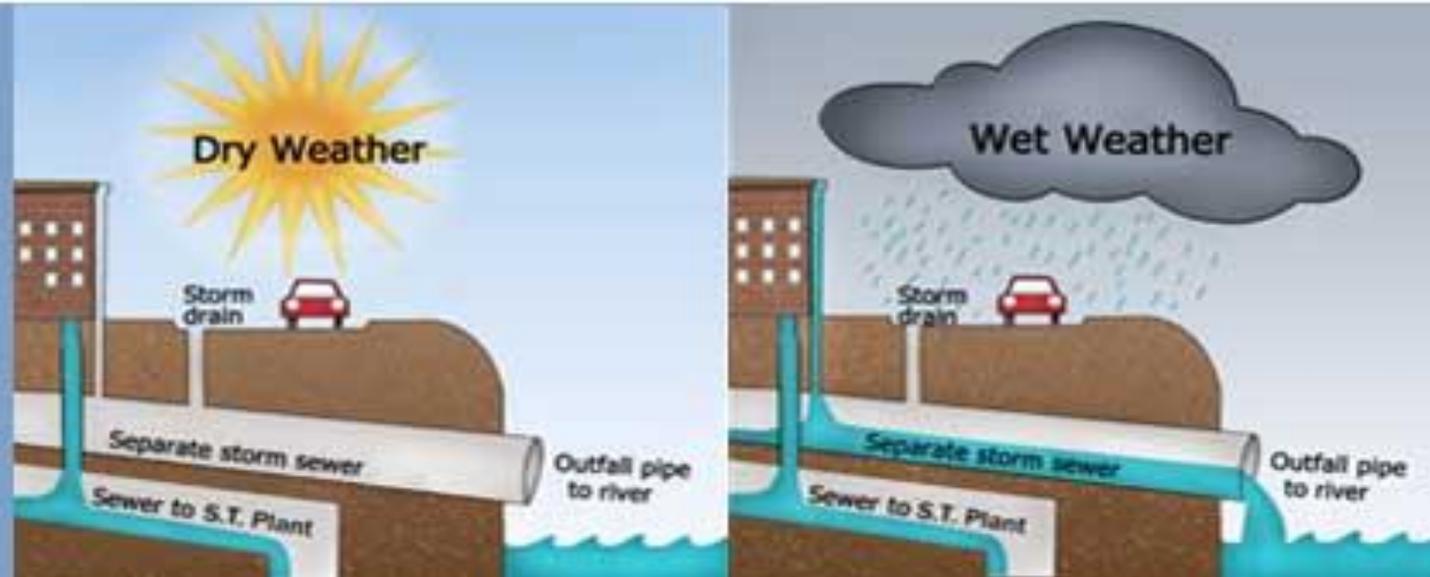
Answer: A separated storm drain sewer only conveys storm water flows.

Combined Sewer Overflows (CSO)

COMBINED
SEWER
SYSTEM



SEPARATED
SEWER
SYSTEM



BACK COVE WEST SEWERSHED AREA



CSO Area- Back Cove West

- Back Cove West Service Area = 739.7 acres
- Contributes 33 million gallons of CSO discharge into Back Cove on average each year.
- 8 of the City's active CSO discharge points into Back Cove Between Preble Street Extension and Cheverus High School.
- City required to reduce CSO volumes in this service area by approximately 90% by the EPA.
- This will be accomplished by implementing CSO storage along Baxter Blvd. and by providing storm water separation projects such as this project.



PROJECT CSO FOCUS: # 16

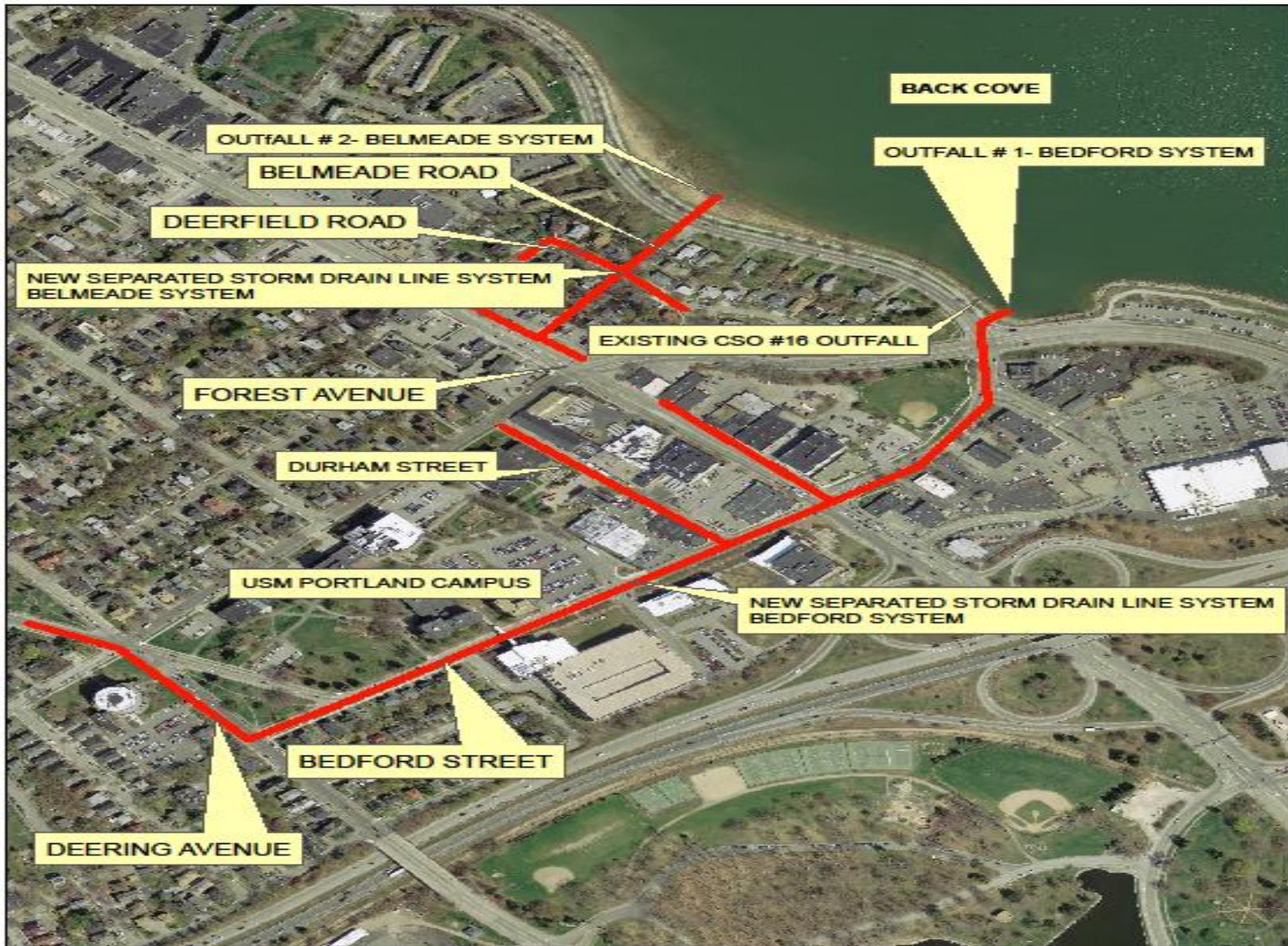
- This separation project targets separation of area tributary to CSO outfall # 16 near the Baxter Blvd.- Preble Street Extension intersection.
- CSO 16 discharges between 3 and 10 million gallons of CSO into Back Cove each year.



Project Goals

- Reduce CSO Discharge at location # 16 by installing new storm drains
- Remove approximately 54 acres of drainage area from the combined sewer
- Build a storm drain that can convey a 25 year storm event
- Help the City comply with EPA Long Term Control Plan requirements for CSO reduction
- Treat storm water runoff by using innovative green infrastructure systems
- Help improve and protect the water quality in Back Cove and Casco Bay
- Install new sewer lines within streets that have old (1920's era) sewer lines
- Upgrading the area's drinking water systems (Portland Water District)





CITY OF PORTLAND, MAINE
PUBLIC WORKS DEPARTMENT
DECEMBER 2017

PROJECT LOCATION MAP
Bedford-Belmeade-Forest-Deering
SEWER SEPARATION PROJECT
PORTLAND, ME

FIGURE 2



Project Description

- New storm drains to be installed within the following streets: (Diameter range 10"-60")
- Bedford Street (Brighton Avenue to Forest Avenue)
- Durham Street (Falmouth to Bedford)
- Forest Avenue (Deerfield Road to Bedford)
- Baxter Blvd. (Forest to Preble Street Extension)
- Belmeade Road (Forest to Baxter Blvd.)
- Deerfield Road (Forest to Grasmere)
- 2 New Storm Drain outfalls into Baxter Blvd.
- In total the project will construct 6,225 linear feet of new storm drain
- Bedford Street storm drain sized to convey flows from future roundabout project.



Project Description Continued

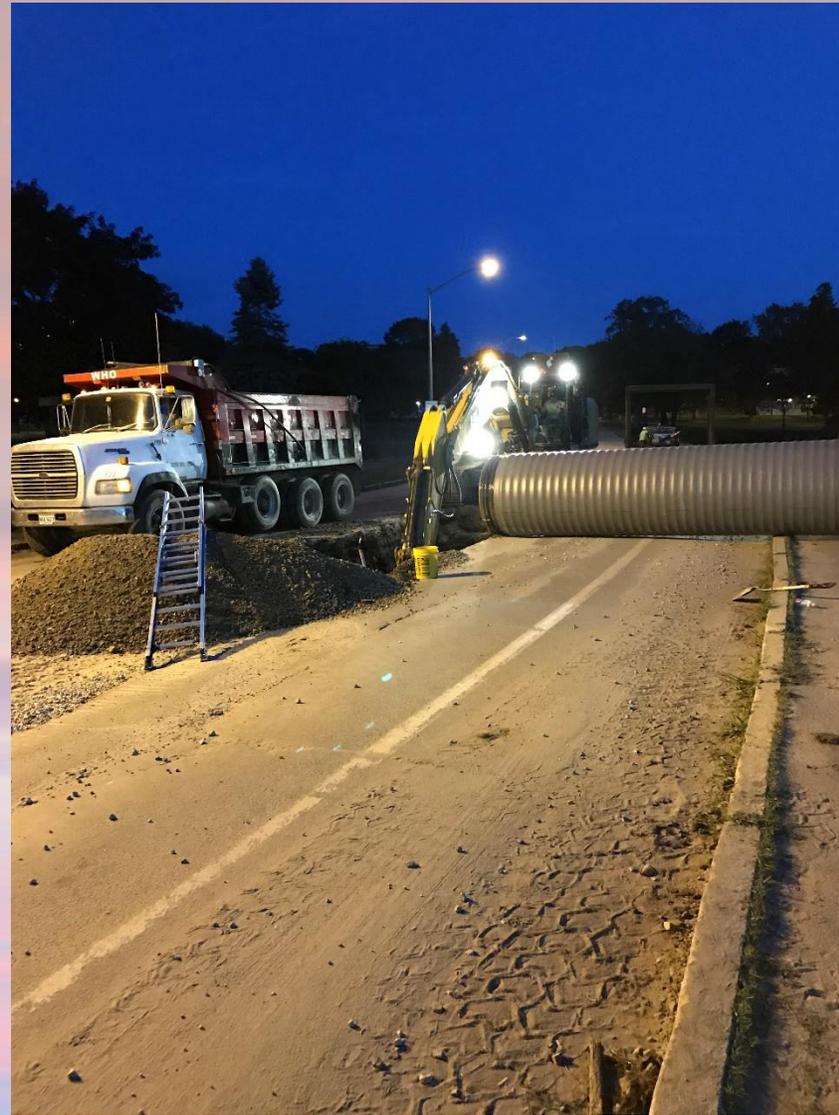
- The Project will incorporate green infrastructure (Rain Garden Areas) to treat newly separated storm water.
- New Sanitary Sewer Lines within Bedford Street, Durham Street and Belmeade Road (rest of project area has relatively new sewer lines)
- The Portland Water District will be replacing water mains within all project locations.



What to expect during the Project

- Noise
- Large equipment and machines around
- Traffic disruptions
- Night Work- Forest Avenue and Baxter Blvd.
- Temporary disruptions to driveways, water and sewer lines (contractor must provide notification)
- Dust- Contractor required to control dust but it can still get dusty at times
- Professional interactions with Contractor- let us know if this doesn't happen.





Utility Coordination

- Working with Portland Water District throughout project.
- Working with Unitil Natural Gas to re-locate in a few areas.
- Project plans shared with other utilities.



Sequencing of project

- Advertised for Bid: Early February 2018
- Start of Construction Late March- Early April 2018
- Project will start by installing outfall pipes into Back Cove and work up from there.
- Overall construction schedule determined by low-bid contractor
- Project will require substantial completion by November 16, 2018
- Final Paving and Misc. restoration to occur in the spring of 2019



Questions and House Keeping Items

- Project fact sheets available to take home
 - Project questionnaire-fill out and return to me if interested
 - Please sign the sign in sheet!
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- Any questions??

