

## By the Numbers

All of Dedham's wastewater, which includes infiltration and inflow (I/I) that does not need to be treated, is transported to and treated at the Massachusetts Water Resources Authority's (MWRA) treatment plant on Deer Island.

This year, Dedham was assessed \$5,597,434 by the MWRA for the transportation and treatment of our wastewater. As you can see from the back panel, 37% of the assessment is from infiltration and 11% is from inflow. These levels are similar or slightly better than comparable MWRA communities. In other words, 48% of what Dedham pays the MWRA is for handling infiltration and inflow from public and private sources.

*"By the Numbers"*  
continued on back panel —



**Infiltration Gushing through Pipe Joint**

## Town of Dedham MASSACHUSETTS

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## Town of Dedham MASSACHUSETTS



# Understanding Infiltration and Inflow

*"By the Numbers" continued:*

Annual Average Daily Flow	= 3.5 MGD (100%)
Estimated Sanitary Flow	= 1.8 MGD (52%)
Estimated <b>Infiltration</b>	= <b>1.3 MGD (37%)</b>
Estimated <b>Inflow</b>	= <b>0.4 MGD (11%)</b>

TOTAL FY2019 Assessment	= \$5.6 Million
Cost to Transport & Treat Sanitary Flow	= \$2.9 Million
Cost to Transport & Treat <b>Infiltration</b>	= <b>\$2.1 Million</b>
Cost to Transport & Treat <b>Inflow</b>	= <b>\$0.6 Million</b>

Sewer Pipe

Infiltration and Inflow is clean water which does not have to be treated, may cause sewer flooding, and costs the Town over \$2,000,000 each year!

Wastewater

We need your help. Please join us at our **Public Meeting on April 1st.** See inside for details.

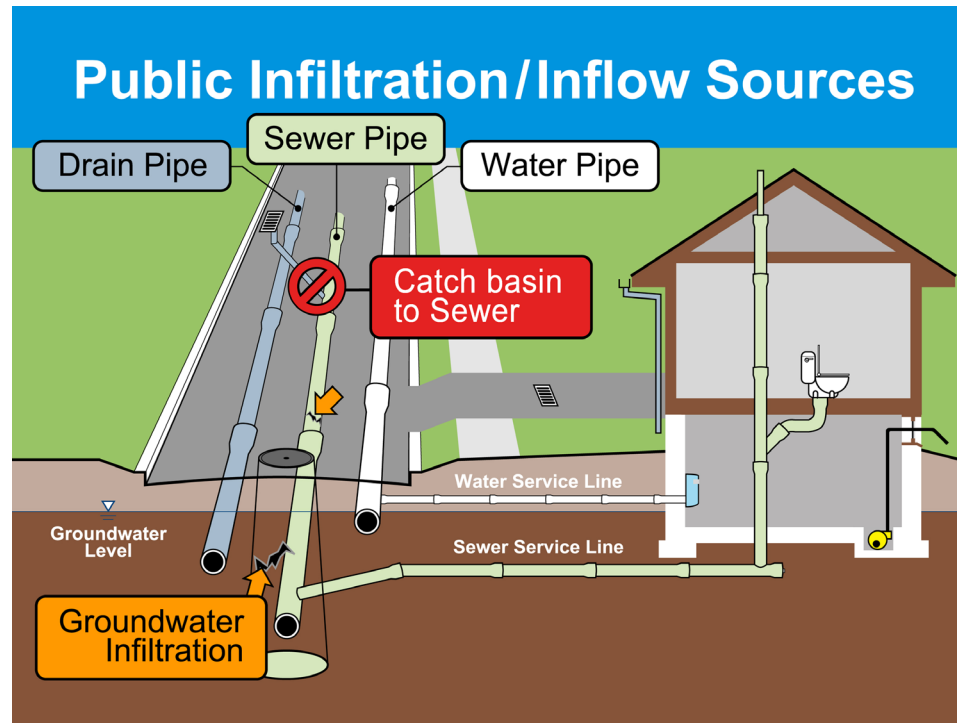
Typically, there are two pipes that convey water away —

Drain pipes carry rain water to local receiving waters, and sewer pipes carry wastewater from homes and take it to a treatment plant.

Infiltration and inflow are the names given to clean water that enters the sewer pipe instead of the drain pipe. This clean water is needlessly treated and takes up space in the sewer — sometimes causing flooding.

**Infiltration** is clean water from below the ground (known as groundwater) that enters sewer pipes through cracks.

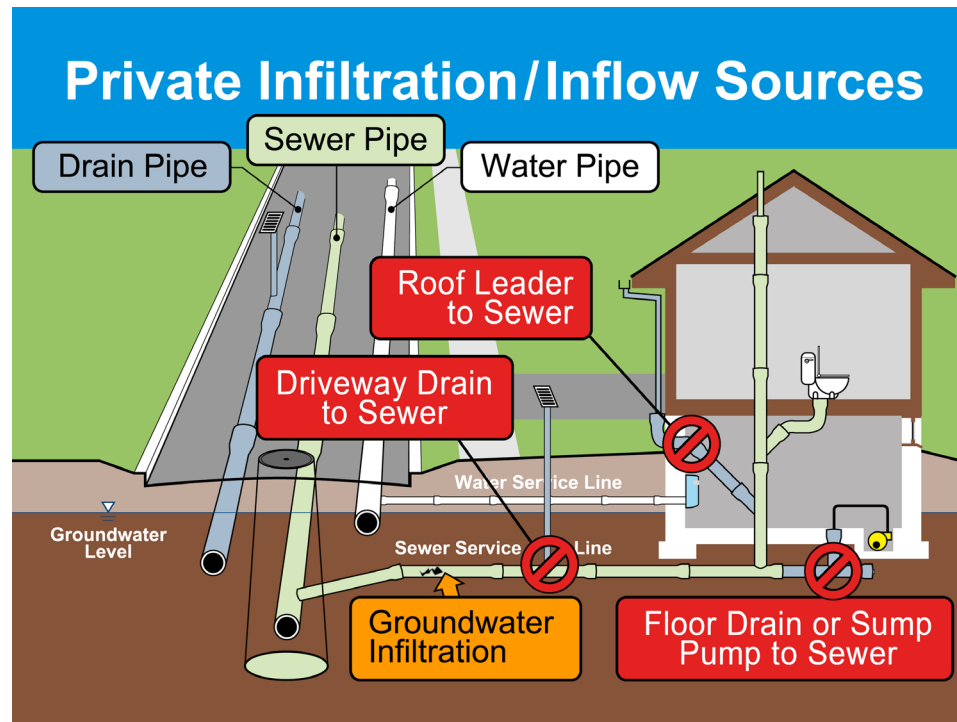
**Inflow** is rain water that enters sewer pipes through a mistake in the piping or from homes that direct rain water to the sewer pipe instead of the drain pipe.



Infiltration or Inflow that occurs in the street is the Town's responsibility.

**DID YOU KNOW?**

The Town has about 98 miles of public sewer mains and since 2007 about 34 miles have been rehabilitated to remove infiltration.



Infiltration or Inflow that occurs on your property, including your sewer service line, is the responsibility of the property owner.

**DID YOU KNOW?**

During the Spring of 2018 the Engineering Dept. conducted TV inspections of our public mains and in doing so went past about 1,600 private service connections. Approximately 113 (7%) of these private connections showed indications of I/I.

You are invited to attend a Town-Wide Public Meeting to be held on **April 1, 2019 at 7:00 PM** at the Dedham Middle School Auditorium, 70 Whiting Avenue. The Engineering Dept. will recap it's extensive work since 2007 to remove I/I in Town-owned sewers. It will also describe what is in the works for removal of infiltration from privately-owned sewers.