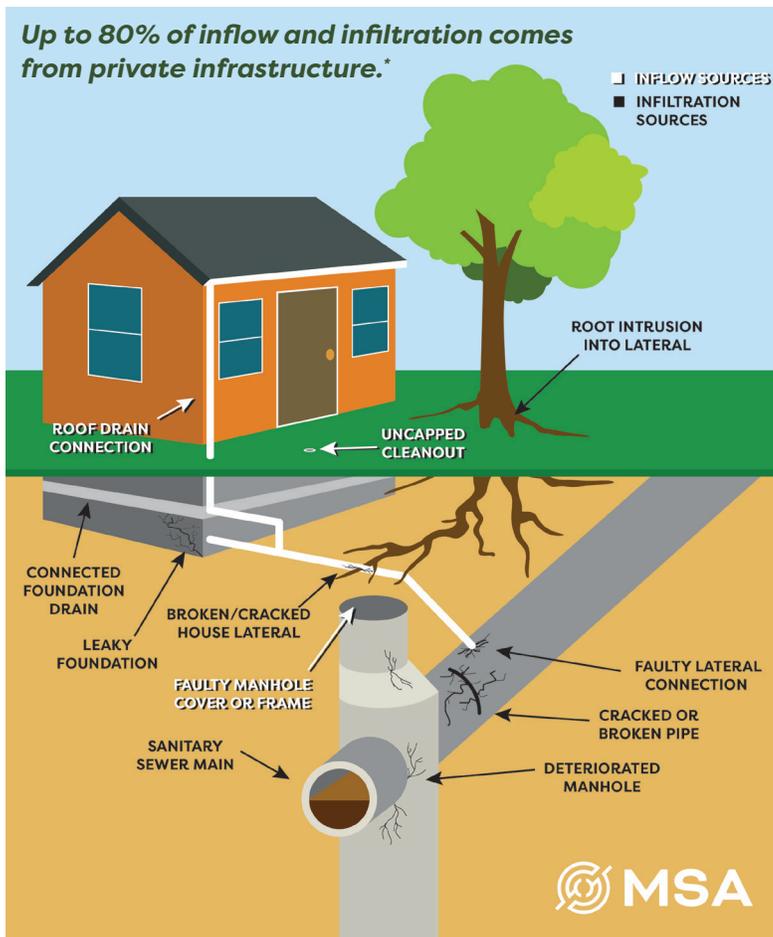


ROXBURY SANITARY INFILTRATION REDUCTION PROJECT

Last month, the Roxbury Sanitary District (RSD) introduced this monthly newsletter to keep residents informed about the infiltration reduction project that RSD is undertaking. Included in the newsletter was the history of RSD's issue of ground water and surface water (clear water) infiltrating into the district's sewer mains and laterals. This newsletter is taking a deeper analysis of the infiltration problem and what it means to you as a resident.



Sources of inflow and infiltration into the Roxbury sanitary system.

*Source: metrocouncil.org

ROXBURY — WE HAVE A PROBLEM!

The excess amount of stormwater entering the sanitary sewer mains and laterals is causing **significant** problems at the wastewater treatment facility. The sanitary sewer system is designed to carry wastewater from toilets, dishwashers, sinks, and showers to the wastewater treatment facility. Inflow and infiltration adds excessive stormwater to the sanitary sewer system. Stormwater does not belong in the sanitary sewers.

WHY SHOULD YOU CARE?

The short answer is **increased cost to you**. **Costs due to additional treatment on the sanitary sewer system are passed on to you, the owner.** All additional water that enters the sanitary sewer system must be treated as wastewater, even if it is stormwater. The more water that gets treated at the wastewater plant, the higher the cost. When the stormwater getting into the system through inflow and infiltration is reduced, operating costs are reduced.

HOW DO I STAY INFORMED?

Monthly project meetings

RSD will be holding a meeting on the **third Tuesday** of every month at the Roxbury Town Hall specifically to talk about the Infiltration Reduction Project. RSD commission and engineers will be in attendance to answer your questions and inform the community about the project.



UPCOMING MEETINGS

Roxbury Town Hall
Tuesday, July 16 at 6 p.m.
Tuesday, August 20 at 6 p.m.

There will be a Public Informational Meeting in August. You will be notified in advance of the meeting.

QUESTIONS?

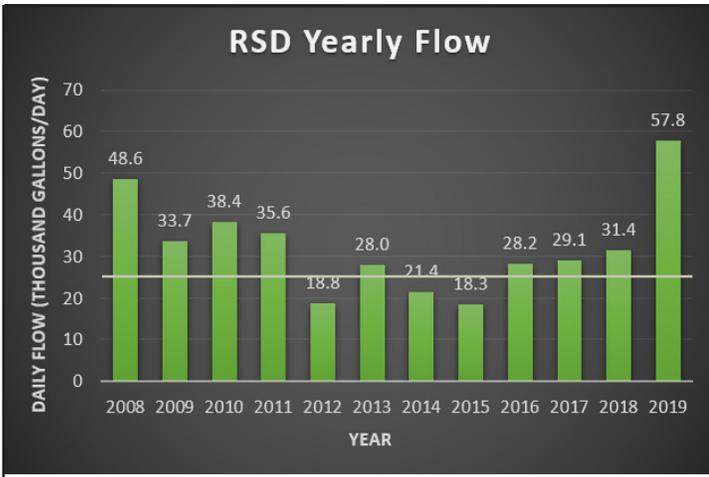
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MORE INFORMATION

town.roxbury.wi.us



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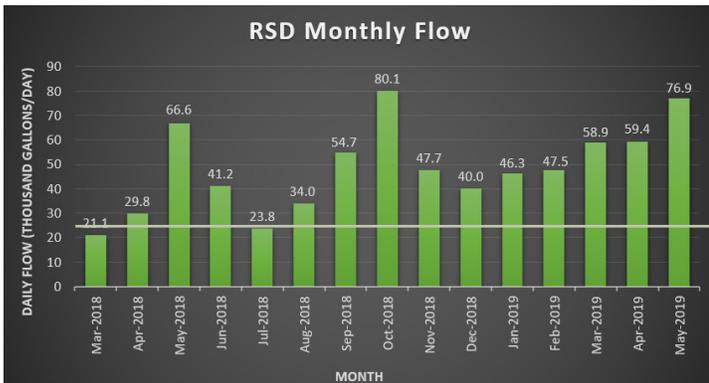


The green bars show the average daily flow each year since 2008. The design capacity for the RSD plant is designed for 25.3 thousand gallons a day (white line). **Note: in 2019, the average daily flow being processed is more than double the design capacity of the treatment plant.**

HOW SIGNIFICANT IS THE PROBLEM?

The RSD treatment plant is designed for a capacity of 25.3 thousand gallons of sewerage to be treated in a 24 hour period. The load on the sanitary sewer system increases significantly during a rainstorm or snowstorm melt. All that excess water gets into the sanitary sewers (through inflow and infiltration). Once in the sewer, the water goes to the wastewater treatment plant and gets treated.

The top left chart shows the average daily flow the plant has treated since 2008 (the green bar). The white line is the design capacity. This chart shows that for 7 of the last 10 years, the average daily flow has exceeded the design capacity.



The above chart shows the average daily flows for the past several months (since March 2018). The white line is the design capacity of the treatment plant. The green bars show that monthly flows are in excess of the plant capacity. This is adding unneeded strain on the system.

TREATING STORMWATER IS COSTLY

Costs in treating additional stormwater from inflow and infiltration are passed back to you in the form of rate increases. Treating excess volume of stormwater is taking a toll on the wastewater plant that was built in 1999. The pumps work more as the sewer system's water load increases. This puts an unneeded strain on the pumps and shortens the life expectancy of the wastewater treatment facility. In the past four years, three (3) pumps have had to be repaired, costing RSD over \$15,000. It is not sustainable for RSD to continue to process excess stormwater through the wastewater plant. Minimizing inflow and infiltration will not only lower operating and repair costs, it will increase the lifetime capacity of the treatment facility.

HOMEOWNERS ARE KEY

You are a key part of this project because your home has a sewer lateral. A house sewer lateral is an underground pipe that connects your residence to the sanitary sewer main. **Laterals can be a key source of infiltration in a sewer system.** The good news—many laterals have been inspected to see where problems exist.

