



STOP

Did you know... . .

City of Rush City

Inflow & Infiltration (I&I)

Inflow and Infiltration (I&I) are major causes of sanitary sewer overflows that release untreated raw sewage into lakes, streams, streets, and basements. Even under normal conditions, it can be very expensive to treat sanitary sewer waste water. The cost of adding additional waste water treatment facilities is even greater. As a result, it is imperative for us to address inflow and infiltration problems we are experiencing in Rush City. The treatment of clean water (I&I) in the city's sanitary sewer system is an unnecessary expense that can be avoided which will, in the long run, save the city (and residents) hundreds of thousands of dollars in not having to expand the waste water treatment facilities.

What is Inflow?

Inflow occurs when rainwater is misdirected into the sanitary sewer system instead of storm sewers. As much as 40 percent of inflow comes from rain gutters, drain tiles and sump pumps that are improperly connected to the sanitary sewer system. The remedy for inflow is to remove the improper connections to the sanitary sewer system.

Here's how you can help...

The City of Rush City's Water and Sewer Ordinance requires all properties in the City to have their sump pumps, foundation drains and roof drains inspected for illegal connections to the sanitary sewer system. Inspections of private property will be on a volunteer, transfer of property, building permit request, or variance/CUP/re-zoning request basis, for now. (Inspection fee and loan information can be found on the back side of this page).

What is Infiltration?

Infiltration occurs when clean ground water seeps into the sanitary sewer system through cracks or leaks in sewer pipes. The cracks or leaks may be caused by age related deterioration, loose or cracked joints and connections, damage to the pipes or tree roots growing into the lines. The remedy for infiltration is repairing or replacing the leaking infrastructure. **Here's what the city is doing to address infiltration...**

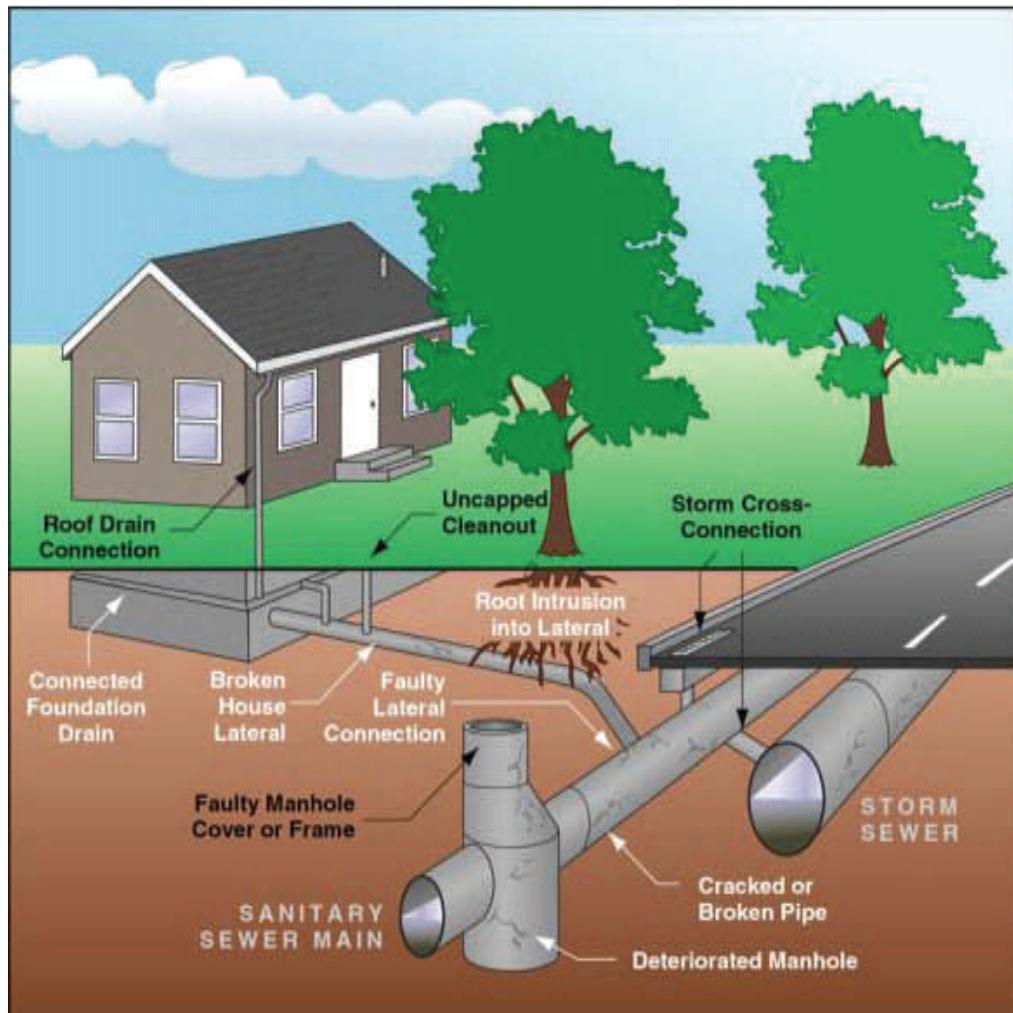
The City of Rush City's Water and Sewer Ordinance also requires all properties in the City to have their sewer laterals (the line that runs from the house or building to the City's main sanitary sewer line in the street) inspected for cracks, leaks or loose joints. As with the sump pump inspections, sewer lateral inspections of private property will be on a volunteer, transfer of property, building permit request, or variance/CUP/re-zoning request basis, for now. (Inspection fee and loan information can be found on the back side of this page).

The City is also starting a program to inspect the City sanitary mains for cracks, leaks or disrepair. The current plan is to teleview 20 percent of the City sewer mains each year for the next five years. During this time we will begin a repair and replacement program. Televising of the City sanitary sewer mains is scheduled to begin this summer.

City offers reduced inspection fee for volunteers, and low interest loans for required inflow & infiltration repairs!

The City of Rush City is offering assistance to property owners who volunteer for inspections of their property for compliance with the updated Water and Sewer Ordinance. As part of this program, a reduced fee of \$75 will be charged for those property owners who volunteer for the inspection. The inspection will take from 1 to 2 hours and will consist of checking the sump pump discharge, checking for roof and foundation drains, and televising the sewer lateral. If you are interested in participating in the volunteer inspection program, please complete and return the enclosed inspection application along with a check for \$75 to City Hall (P.O. Box 556, Rush City, MN 55069-0556). For more information, please call the City Hall at 358-4743.

Low interest loans for the required repairs will also be available to property owners. A maximum of \$6,000 loan at 4% interest for up to 10 years will be available to those needing assistance for the required repairs. This reduced fee inspection and loan program may only be available for a limited time, so please get your application back to City Hall as soon as possible to take advantage of this reduced inspection and loan offer.



Inflow & Infiltration

Inflow and Infiltration (I & I) occurs when rainwater and groundwater enter the sewer system as illustrated in the diagram on the left. When I & I is mixed with sewerage the necessary capacity for the receiving wastewater treatment plant can double and even triple. In addition, excessive I & I reduces the carrying capacity of the sewer lines which can lead to surcharged manholes, overflowing manholes, and the exposure of our community to the diseases and pollutants carried in wastewater. Removing extra water from the collections system helps 1) reduce the need to build expensive new wastewater treatment plants in the future, 2) reduce the potential for property damage, and 3) ensure a clean environment for future generations.