



AT THE EDGE OF THE CITY AND
THE HEART OF EVERYTHING

April 17, 2017

RE: Private Property Inflow & Infiltration Reduction

Dear Property Owner:

Your property has been identified as eligible to participate in the Village's 2017 lateral rehabilitation program. The program includes the inspection and repair of privately-owned sanitary sewer laterals (the section of pipe which carries wastewater from your home to the Village's sanitary sewer mains). **This improvement is fully funded by the Village of Shorewood and the Milwaukee Metropolitan Sewerage District and will be completed at no out-of-pocket cost to you.**

To date, 224 of your neighbors have taken advantage of this program to reduce inflow and infiltration in sanitary sewers. Inflow and Infiltration (I&I) is water other than sewage (most often rain water) entering the sanitary sewer system. The sanitary sewer system was designed to handle all waste from your bathrooms, kitchens, showers, etc. The addition of rain water into the system during heavy rain events can cause the pipes to be overloaded, potentially leading to basement backups.

As part of the program, the Village will line your private sanitary sewer lateral with a new material to seal the defects that can allow water seepage into the laterals. The work will be performed using remote control devices with virtually no surface disturbance. The entire process will be performed at no cost to you.

Additional information, including a program presentation and before-and-after videos, can be found on our project web page www.villageofshorewood.org/latlining. A list of frequently asked questions and a statement from a previous program participant are also enclosed.

As we will require access to your front yard during this project, we would like your consent. Please return the enclosed form to Village Hall by June 2, 2017. **Please note that funding is limited to and will be awarded on a first-come first-served basis.**

If you should have any questions regarding this project, please feel free to contact me at 414.847.2650.

Sincerely,

Leeann Butschlick, Director
Department of Public Works



Private Property Inflow/Infiltration Reduction Lateral Rehabilitation Program

I&I is clean storm and/or groundwater that enters the sewer system through cracked pipes, leaky manholes, or improperly connected storm drains, down spouts and sump pumps. Most **inflow** comes from storm water and most **infiltration** comes from groundwater.

There are over 430,000 lineal feet of sewer pipe within the Village of Shorewood's borders. About 160,000 feet are owned and maintained by the Village of Shorewood and the Metropolitan Milwaukee Sewage District.

Each year the Village and MMSD invest heavily in programs to remove I&I from the public portion of the sewer system. What can homeowners do about the remaining 2/3 of the system?

Line your sewer lateral!



Actual photo of the lateral access hole.

The 2017 program will focus on the 4000 - 4200 blocks of N. Larkin Street. To date, 224 of your neighbors have participated in this **FREE** program.

I am so pleased the Village of Shorewood is proactively addressing Infiltration/Inflow of storm water into the sanitary system. It was an easy decision to participate in the private property lateral lining program as I essential got a "new sewer" to benefit both my property value and the Villages objectives of reducing I&I. I was very satisfied that there was very little disruption to my yard and the Village was timely in restoration of areas disturbed during the work.

Robert Peschel
Property Owner 4525 N. Ardmore Ave
414.507.2878



Lateral lining completed; awaiting topsoil and seed.

Funding is limited and only properties in identified areas are eligible. For more information, please call DPW at 847-2650 or visit our project web page at www.villageofshorewood.org/latlining

BASEMENT CONNECTION

flood relief for a better night's sleep

FREQUENTLY ASKED QUESTIONS

WHAT IS A SANITARY SEWER LATERAL?

A sanitary sewer lateral connects a building to the municipal sewer main. The sanitary sewer lateral is considered part of the house, and as such, is maintained by the property owner.

WHAT DO SANITARY SEWER LATERALS DO?

The sewer laterals are integral parts of the sanitary sewer system. They carry away all waste from your home (bathrooms, kitchens, showers, etc.) to the public sanitary sewer main.

WHO IS RESPONSIBLE FOR MAINTENANCE?

The building lateral is considered part of the home. Maintenance, repair, and replacement of the lateral is the responsibility of the homeowner. Performing regular maintenance and making necessary repairs is vital to ensuring the longevity of your lateral, similar to other home upkeep. Most can be cleaned by accessing the sanitary sewer cleanout.

WHAT IS A SANITARY SEWER CLEANOUT?

A sewer cleanout is a point of access where the sewer lateral can be serviced. It usually is 4 inches in diameter and has a tight-fitting steel or plastic cap over it. If you are unsuccessful in locating one, you either do not have one or it may be buried under dirt or concrete. A plumber can assist you in locating it.

I'VE HAD BASEMENT BACKUPS, WHY?

The main reason for basement backups is the presence of excess water in the system. During rainfall, saturated ground conditions encourage seepage into the sewers. Rainwater finds its way into the sewers through many cracks and defects in the system. If enough excess water makes it into the sewers, pipe capacities are exceeded and basement backups can occur.

WHAT ARE SOME DIRECT INFLOW SOURCES?

1. Direct Roof Downspout Connection
2. Uncapped cleanout
3. Storm sewer cross-connection
4. Foundation drain connection

WHAT ARE SOME DIRECT INFILTRATION SOURCES?

1. Root Intrusion into mains or laterals
2. Cracked or broken mains or laterals
3. Defective manholes or cleanouts
4. Defective lateral connections

WHY IS THIS AN ISSUE NOW?

Rain water entering the sanitary system has always been a cause for concern, but the unusually high amounts of rain in recent years have put a strain on the area's infrastructure. Think of your sewer lateral like your water heater. They both perform a function that you use in everyday life, but are often unseen. It isn't until these systems are not operating correctly that we consider their importance.

WHY REPAIR THE LATERAL?

The Village has had an on-going sewer main video inspection and rehabilitation program for several years as part of our effort to maintain our public infrastructure in good service condition. We are also aware that needed maintenance on private laterals may not have taken place at the same rate as the public infrastructure. Repairing laterals is considered as part of overall system upkeep to ensure on-going acceptable sewer service levels in our Village.

HOW IS MMSD INVOLVED?

Milwaukee Metropolitan Sewerage District (MMSD) has set aside dedicated funds for each municipality to investigate and correct inflow and infiltration that originates from private laterals. Shorewood is using these funds to conduct the present investigation. In addition, in case defects are identified, the Village will use MMSD funds to participate in the repairs and rehabilitation of the lateral by funding the cost to repair a private lateral.

**Village of Shorewood
Pilot Private Property Inflow and Infiltration Reduction Program**

**CONSENT TO ACCESS PRIVATE PROPERTY
FOR THE PURPOSE OF SEWER LATERAL LINING**

This consent to enter my property is granted to the Village of Shorewood, giving permission to the Village and its agents or contractors to enter my property to conduct sewer lateral inspections and rehabilitation as part of the Village's Private Property Inflow and Infiltration Reduction Program. The lateral inspections will include the determination of the alignment of the sanitary lateral, closed circuit TV inspection of the sanitary sewer lateral, the installation of a cleanout, and lateral lining.

I understand that:

1. This Program is administered by the Village of Shorewood and the inspection/lining of my sewer lateral will be performed at no cost to me.
2. The Village will hire a contractor or contractors to perform the work and as agents of the Village they have permission to enter my property for the purposes listed above only as long as reasonably necessary to complete the inspections.
3. By signing the consent below I represent that I am the owner of the property or have the legal right to grant permission to enter upon the property.

NAME: _____

ADDRESS: _____

PHONE: _____

EMAIL: _____

Property Owner Signature: _____ Date: / /2017

PLEASE RETURN BY: JUNE 2, 2017