

Sump Pump Program Public Informational Meeting



City of Kasson

September 30, 2020

10:00 AM

Zoom Broadcast

Meeting ID: 826 4463 8862

Passcode: 449390

September 30, 2020

6:30 PM

Zoom Broadcast

Meeting ID: 881 9879 6688

Passcode: 145971

October 1, 2020

7:00 PM

Kasson Mantorville

High School

Performing Arts Center

Brandon Theobald, P.E. – City Engineer

Bryan Kaemingk, P.E. – Project Manager

whks

Meeting Objectives

- **What is Infiltration and Inflow?**
- **Why are we doing this program?**
- **Discuss program approach and details**
- **Frequently asked questions**

What is I/I?

Inflow and Infiltration



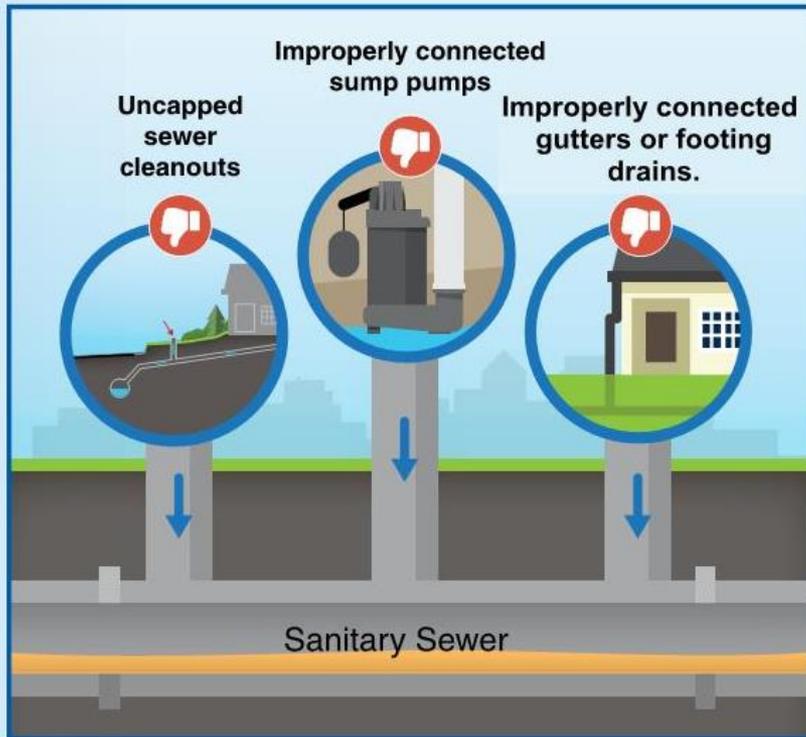
INFLOW

- A** Roof Drain Connection
- B** Sump Pump or Foundation Drain Connection
- C** Deteriorated Manhole
- D** Uncapped or Broken Clean-Out
- E** Storm Cross Connection

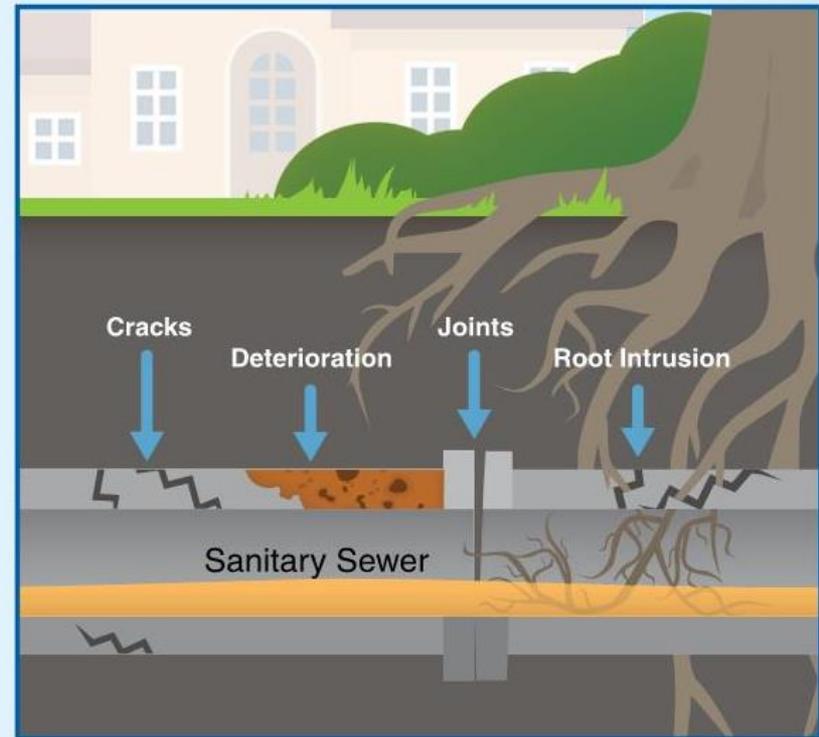
INFILTRATION

- F** Faulty Manhole Cover/Frame
- G** Root Intrusion
- H** Open Joints
- I** Faulty Service Connection
- J** Broken or Cracked Pipe

Some Sources of I/I



Inflow is clear water that quickly enters the wastewater system after rainfall events from sources such as sewer cleanouts, sump pumps, gutters, building foundation drains, and broken maintenance hole covers.



Infiltration is clear water that gradually enters the wastewater system below ground through cracks and openings in sewer service lines and joints, and public sewer mains and deteriorated maintenance holes.

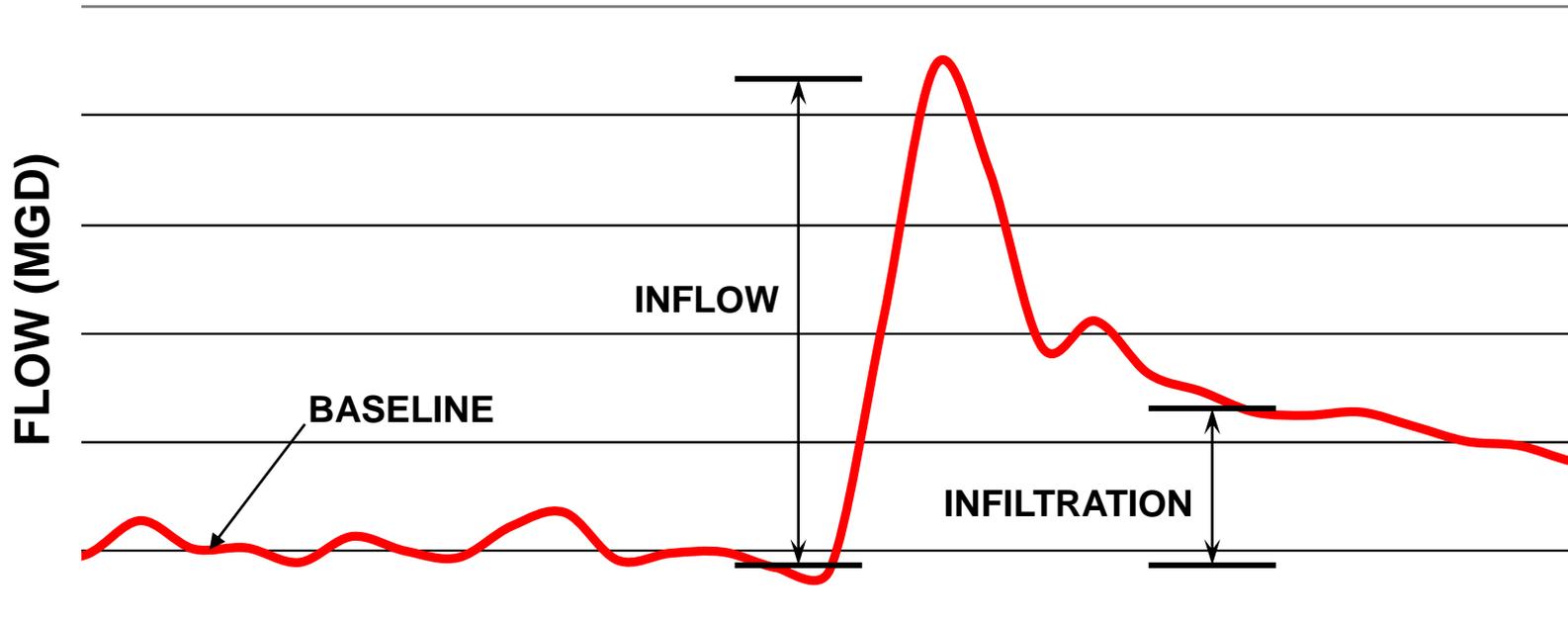
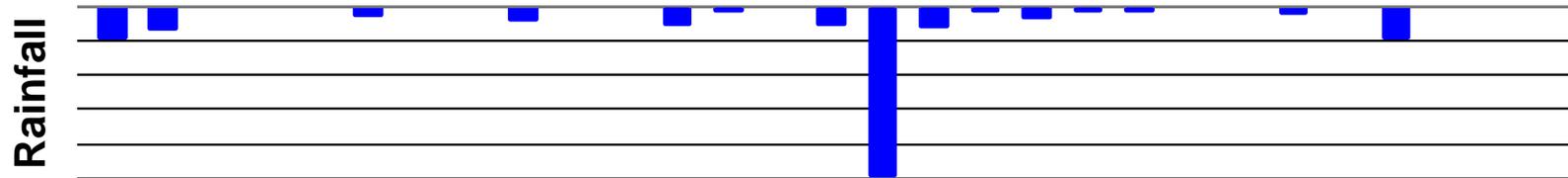
I/I in Kasson

Kasson System Description:

Average Dry Weather (ADW) flow (MGD): 0.67

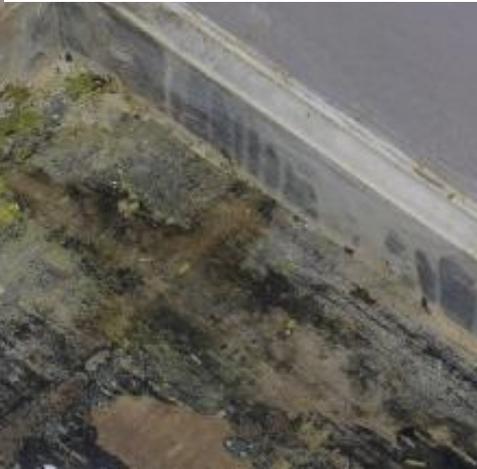
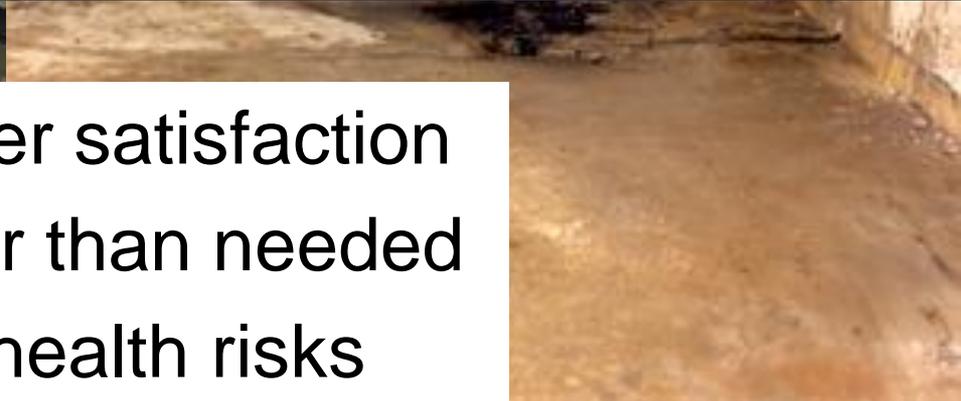
Average Wet Weather (AWW) flow (MGD): 0.97

Peak Instantaneous Wet Weather (PIWW) flow (MGD): 6.8 **10 X average**



Consequences of Excessive I/I

Low customer satisfaction
Costs greater than needed
Potential health risks
Property damage
Regulatory actions



I/I's Effects on Kasson



- **Sanitary Sewer Backups into Homes**
- **Sanitary Sewer Overflows into Waterways**
- **Sewer Infrastructure Size Increase**
- **Wastewater Treatment Plant Upgrades**
- **Sewer Rate Increases**

Why are we doing this program?

NMTC COVERAGE YOU CAN COUNT ON
E W B

BREAKING NEWS 1 d

RESIDENTS ANGRY ABOUT SEWER BACKUP IN KASSON FOLLOWING



We continue following Olmsted Counties. Kas their basements. Now -

Posted: Jul 11, 2019 12:40 AM
Updated: Jul 11, 2019 8:40 AM
Posted By: Isabella Basco

RESIDENTS ANGRY ABOUT SEWER BACKUP
KASSON, MN

KIMT 3

Kasson, Minn. - Patience was wearing thin at Wednesday's City Council meeting with residents showing photos and videos of their basements.

Kasson Basements Flood Again -- Residents Look to City For Answers

Residents of Kasson Are Upset With the City

KTTC

HOME NEWS CORONAVIRUS WEATHER SPORTS THINGS TO DO

WATCH LIVE: Minnesota Department of Health gives COVID-19 update

Kasson residents blame city for sewer backups, seek answers from mayor

July 8, 2019 11:09 pm Linda Ha

MINNESOTA NEWS, NEWS, TOP STORIES

KASSON, Minn. (KTTC) - While we had clear skies Monday, the past few weeks have been anything but. Heavy rain flooded homes in Kasson and caused sewer backups, forcing some residents to find temporary living spaces.



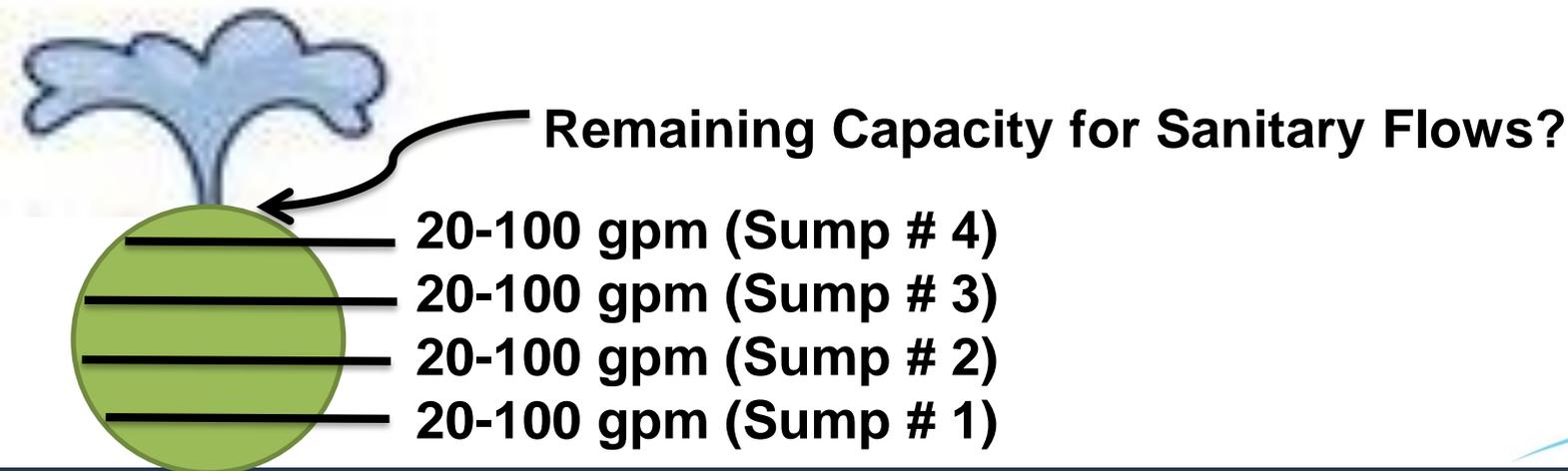
Soiled carpets and a host of appliances are scattered along 1st St. NE, a monument to the mess these residents are dealing with.

"Two of my kids' bedrooms were downstairs now all three of them are huddled into one bedroom upstairs," said John McCabe who moved into his home only two months ago.

Frustrated homeowners gathered at East Park Monday afternoon to meet with Chris McKern and the city's engineer. They blame the City for the sewage water that got into their basements and expressed rage that this has happened on multiple occasions.

Why a Sump Pump Program?

- **A few sump pumps can make a big difference**
 - **Typical sump pump 20-100 gpm a piece**
 - **Typical 8” sewer capacity 350 gpm.**
 - **As few as FOUR pumps can take up the pipe capacity and cause a backup in the neighborhood.**



Sump Pump and Lateral Program Approach

- **Ordinance Modification**
- **Public Info**
- **Public Meetings**
- **Scheduling**
- **Inspections**

Key Aspects to Ordinance Revision

Chapter 53 of Kasson Code of Ordinances prohibits clear water connections.

- Sump pumps, beaver drains, footing drains, etc are prohibited from discharging to sanitary sewer
- Rigid discharge piping, no valves or flex hose
- Sump pits must have pumps
- City, City's representative, or private plumber inspects
- Timeline
 - 90 days to inspect
 - **90 days** to correct **sump pump** deficiencies
 - **365 days** to correct **lateral** deficiencies
- City can issue \$100/month surcharge for violations or no inspection
- Petition and Waiver Program for Financing

Public Info



Information available in print
and on the web at

- www.KassonSump.com
- **City of Kasson Social Media**

A successful program benefits the City by

- **reducing backups,**
- **protecting health, and**
- **Controlling costs**





TREE
CITY
USA

CITY OF
KASSON

401 FIFTH STREET SE
KASSON, MINNESOTA 55944-2204
PHONE: (507) 634-7071
FAX: (507) 634-4737

September 15, 2020

TO: JOHN DOE
Inspection for building at 1234 SAMPLE ST NW
Login: SAMPLE
Password (case sensitive): SAMPLE

RE: City Wide Sump Pump and Lateral Inspection Program - **MEETING AND INSPECTION INVITE**

The City of Kasson's Chapter 53 of the Code of Ordinances prohibits the discharge of clear water into the sanitary sewer system. Clear water from any roof, surface, ground, sump pump, footing drain, swimming pool, seepage collection system ("beaver system"), or other natural precipitation is prohibited from discharging or draining into the sanitary sewer.

The City will be conducting mandatory sump pump and lateral inspections to verify that sump pumps, roof drains, footing drains, and other clear water sources are not connected to the sanitary sewer system. All inspections will likely take place in 2020 to 2022. The engineering firm, WHKS & Co. will be conducting this program and will serve as Project consultant.

Property Owners Must Schedule a Mandatory Sump Pump Inspection

Per ordinance, within 90 days you must schedule an inspection to avoid a \$100 surcharge on your sewer bill. For fairness to all residents, inspection of buildings with a sewer account is mandatory even if the building does not have a basement or sump pump.

Please visit KassonSump.com to schedule an inspection. Your login and password to schedule an appointment are printed at the top of this letter. You can also contact WHKS & Co. toll-free at (855) 440-4005 between 8am-5pm on Monday-Thursday, 9am-12pm on Friday, to schedule an appointment. If calling after hours please leave a message with your name and phone number and they will return your call the next business day. Your property is set for a **sump pump inspection only** because it was built in or after the year 2000. Typical inspections are completed in 15 minutes.

The City will host three public informational meetings to discuss the need for the program, the scheduling of inspections, proper connections, and other miscellaneous items. Meeting attendance is not required. Each meeting will have the same information, no need to attend more than one. The meetings will be:

- Wednesday, September 30, 2020 at 10:00 am Broadcast via www.zoom.us
 - o Meeting ID: 826 4463 8862 Passcode: 449390 | Phone Option (1.301.715.8592)
 - o Or visit Kassonsumps.com for direct link.
- Wednesday, September 30, 2020 at 6:30 pm Broadcast via www.zoom.us
 - o Meeting ID: 881 9879 6688 Passcode: 145971 | Phone Option (1.301.715.8592)
 - o Or visit Kassonsumps.com for direct link.
- Thursday, October 1, 2020 at 7:00 pm Kasson Mantorville High School – Performing Arts Center. Please practice social distancing at the meeting. Masks are required. Limited capacity of 120.

Health and safety practices:
(over)

ic, including our city and consultant staff, seriously and will be
o conform to CDC guidelines for COVID-19 (coronavirus) best

s for inspection
inspectors each day
the end of the inspection to make it contactless.

g:
erson accompany us during inspection
a distance of 6' from our inspector
wear a mask

stating that no one in the household has had symptoms or a
to postpone the inspection if this changes.

and scheduling your inspection please visit Kassonsump.com

EXAMPLE



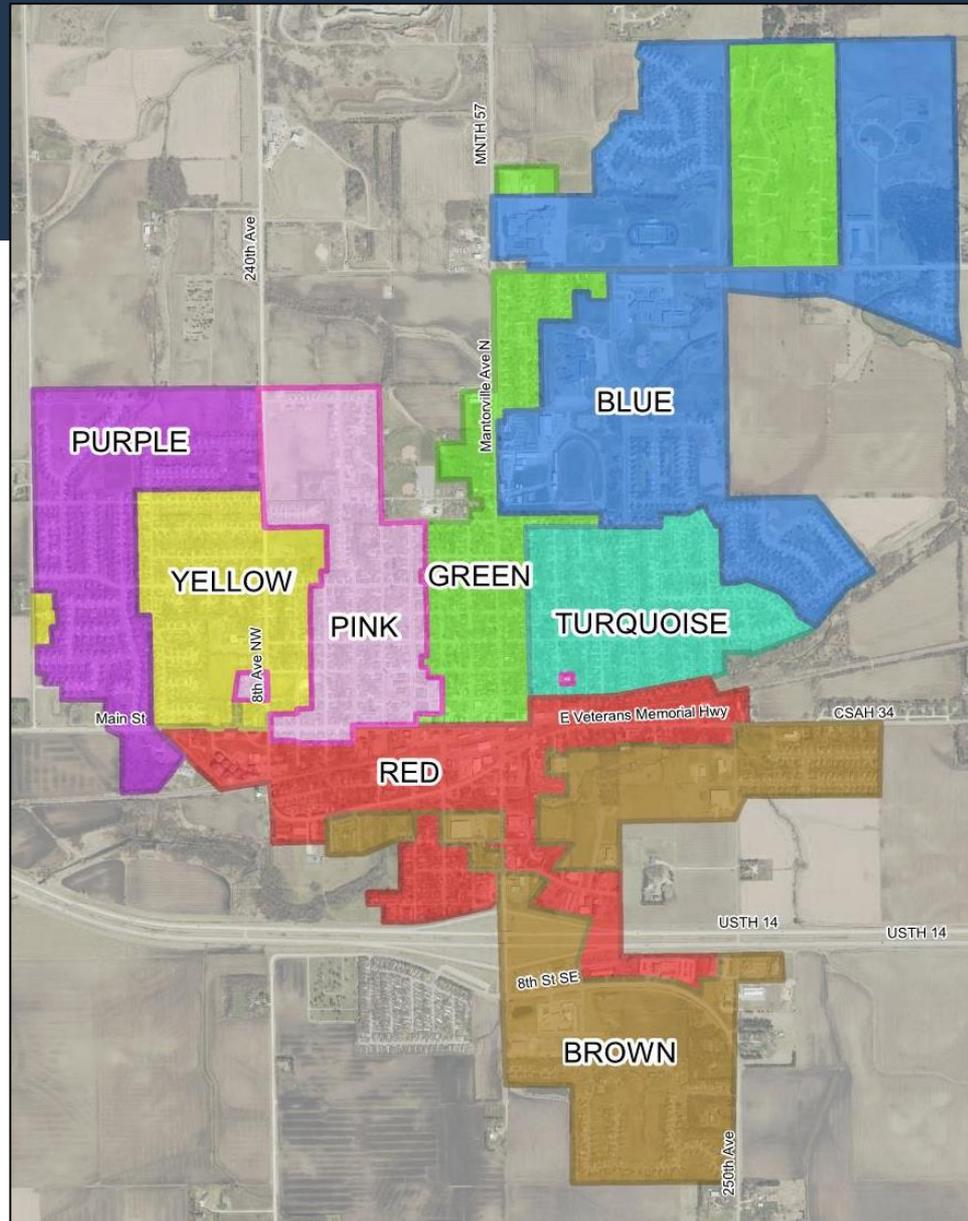
Invitation
to attend
public info
meeting
and
schedule
inspection

Scheduling

- **All inspections are scheduled, no door-to-door inspections.**
- **Scheduling is fast and easy**
- **Schedule through website or telephone**
- **Residents will receive a letter when it is time for their sector to schedule inspections.**

Sectors

Interactive map
available at
KassonSump.com



Scheduling and Info Website

KassonSump.com



Kasson Sump & Lateral Inspection

[home](#) [program information](#) [FAQs](#) [notices](#) [inspection map](#) [contact](#)

[schedule inspection](#)

SUMP PUMP & LATERAL INSPECTION PROGRAM

Updated 2/10/20

Received a Letter? [Click Here](#) to Schedule an Inspection

**** NEWS ****

A Public Informational

whks

Scheduling and Info Website

KassonSump.com

Schedule Inspection

This building does not have an inspection scheduled.



[Schedule Inspection](#)

Select a time for an inspection of 1335456 test.



[Edit Notes](#)

Provide special instructions for inspectors or other information about your property.

When inspection is complete, comeback here for report and lateral inspection video (if applicable).

Note - Report and lateral inspection video may take up to one (1) week after inspection is completed to be uploaded.



[Lateral Inspection Video](#)



[Inspection Report \(PDF\)](#)

Scheduling and Info Website

KassonSump.com

Scheduling Calendar

			1	2	3	4	<h3>April 22</h3> <p>Click the time below to schedule.</p> <ul style="list-style-type: none">7:15am - 7:30am7:30am - 7:45am9:15am - 9:30am9:45am - 10:00am10:30am - 10:45am11:00am - 11:15am11:15am - 11:30am11:30am - 11:45am11:45am - 12:00pm12:00pm - 12:15pm12:15pm - 12:30pm12:45pm - 1:00pm2:00pm - 2:15pm2:15pm - 2:30pm2:30pm - 2:45pm2:45pm - 3:00pm3:00pm - 3:15pm3:15pm - 3:30pm3:30pm - 3:45pm3:45pm - 4:00pm5:00pm - 5:15pm5:15pm - 5:30pm5:45pm - 6:00pm6:00pm - 6:15pm
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	

Scheduling and Info Website

KassonSump.com

Resident Log Out & Appointment Confirmation

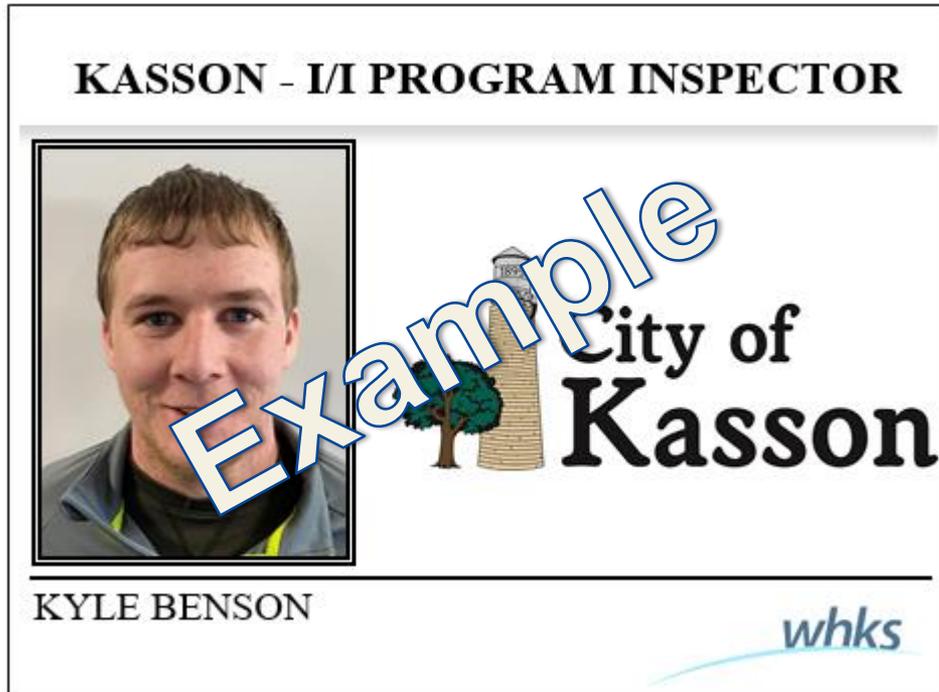
You are Logged Out

Yay!

You have logged out. You have an inspection appointment scheduled for 04/21/2015 8:00 AM Thank you for participating in this program.

The logo for whks, featuring the lowercase letters 'whks' in a blue, sans-serif font, with a blue curved line underneath.

Inspector Identification



- **All inspections are scheduled**
- **No door-to-door**
- **WHKS logos on**
 - **Badges**
 - **Clothing**
 - **Vehicles**

COVID-19 Safety

- 1. Our staff will wear masks into all homes for inspection**
- 2. We will take temperatures of our inspectors each day**
- 3. We will eliminate the signature at the end of the inspection to make it contactless.**

COVID-19 Safety (Cont.)

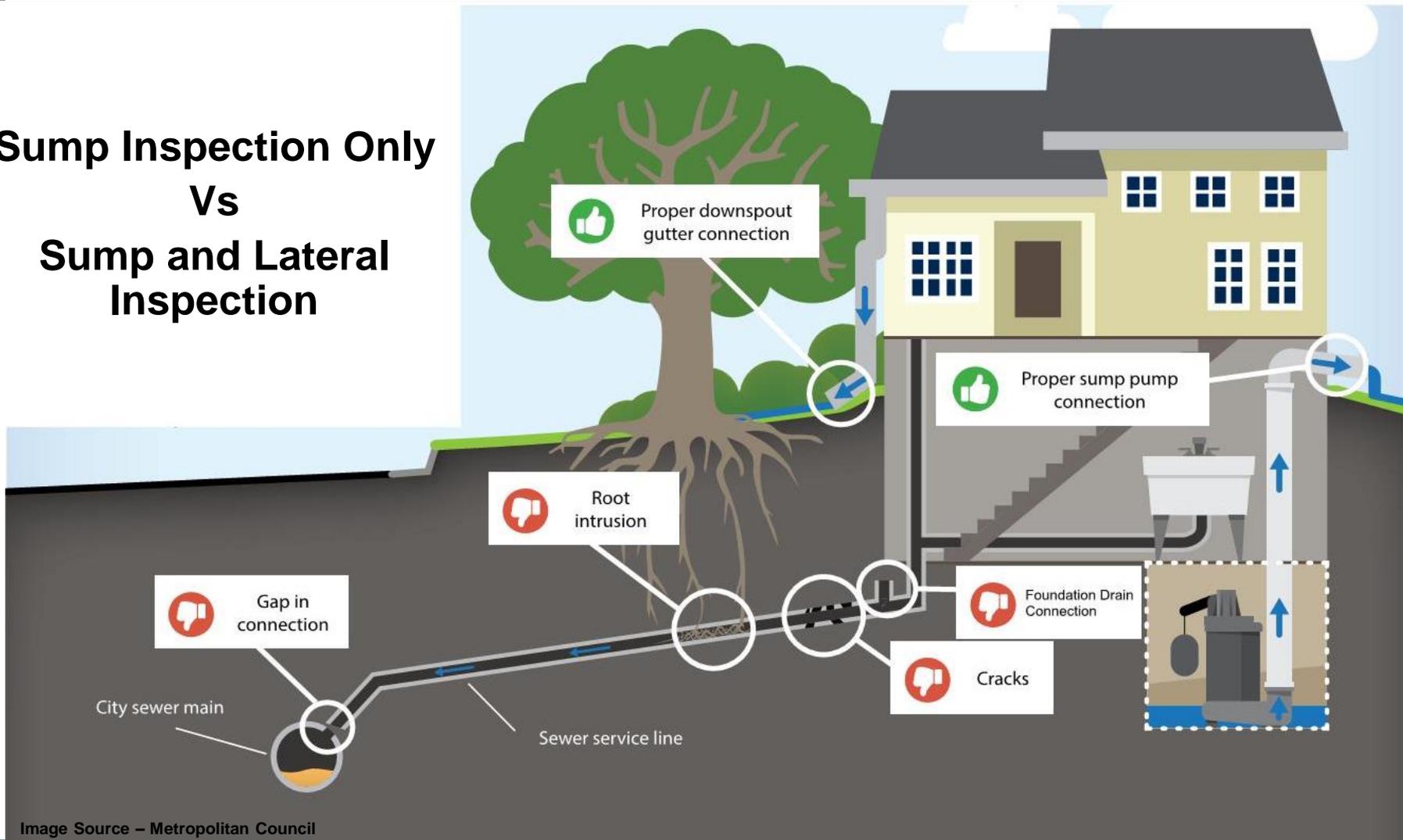
We have the following requests during the inspection:

- 1. Request no more than 1 person accompany us**
- 2. Request maintaining a distance of 6' from inspector**
- 3. Request the resident also wear a mask**

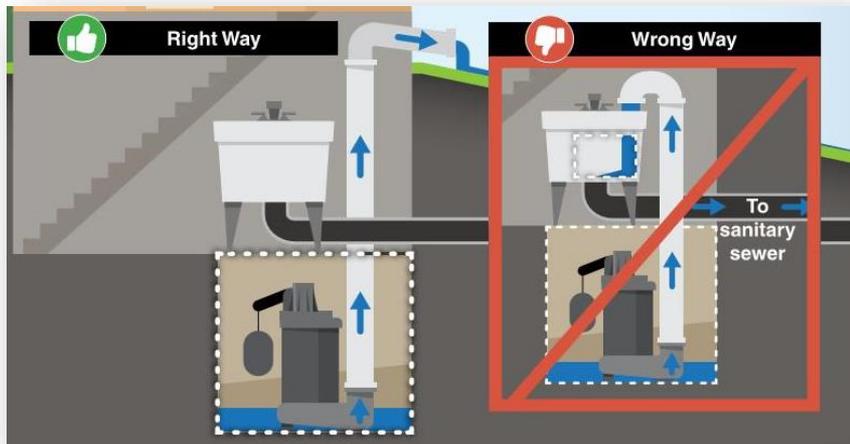
Resident scheduling an inspection are indicating that no one in the household has had symptoms or a positive COVID test, and will cancel the inspection if this changes

What are we looking for?

Sump Inspection Only Vs Sump and Lateral Inspection



The Sump Inspection

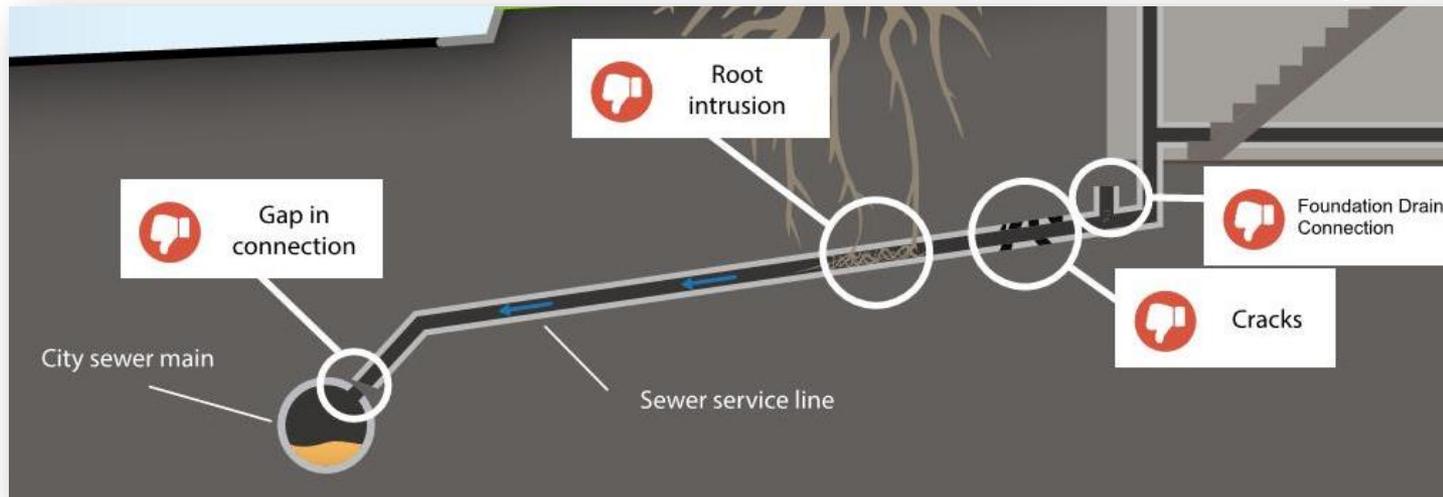


- Completed in 15 minutes
- Adult must be present
- Sump Inspection looks at:
 - Sump pumps
 - Beaver drains
 - Roof drains
 - Site grading
- Notice of Violation and instructional diagrams given if needed
- May Need a follow up Inspection

The Sump and Lateral Inspection

- Completed in under 30 minutes
- Adult must be present
- Inspection includes a sump pump inspection.
- Lateral inspection
 - Camera down service lateral
 - Pipe Material, Size, and Condition

- **Footing Drain Connection (non compliant)**
 - **Should not be connected to sanitary sewer**
- Need access to lateral, i.e. cleanout.
- Notice of Violation and instructional diagrams given if needed
- May Need a follow up Inspection

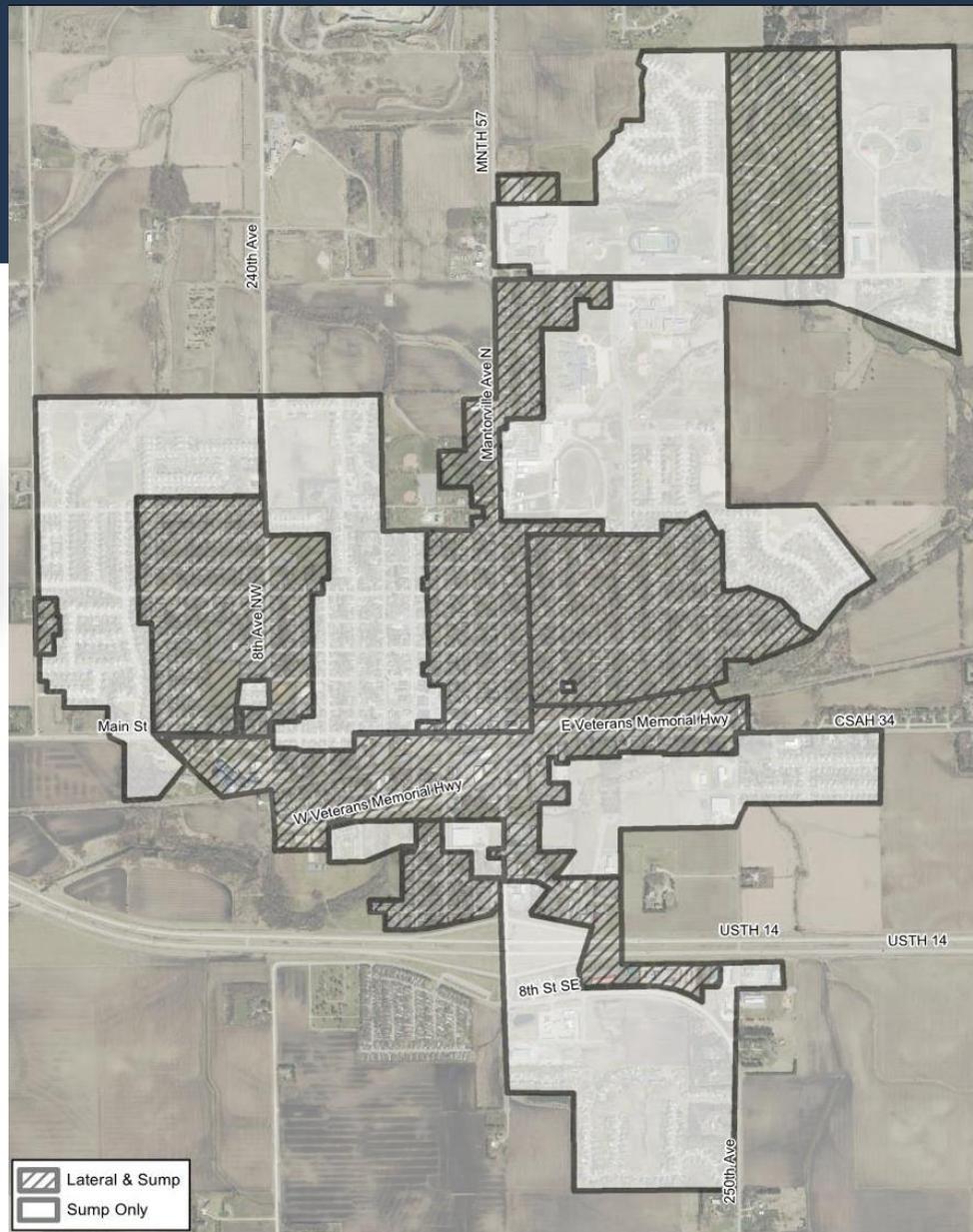
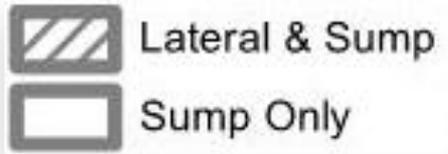


whks

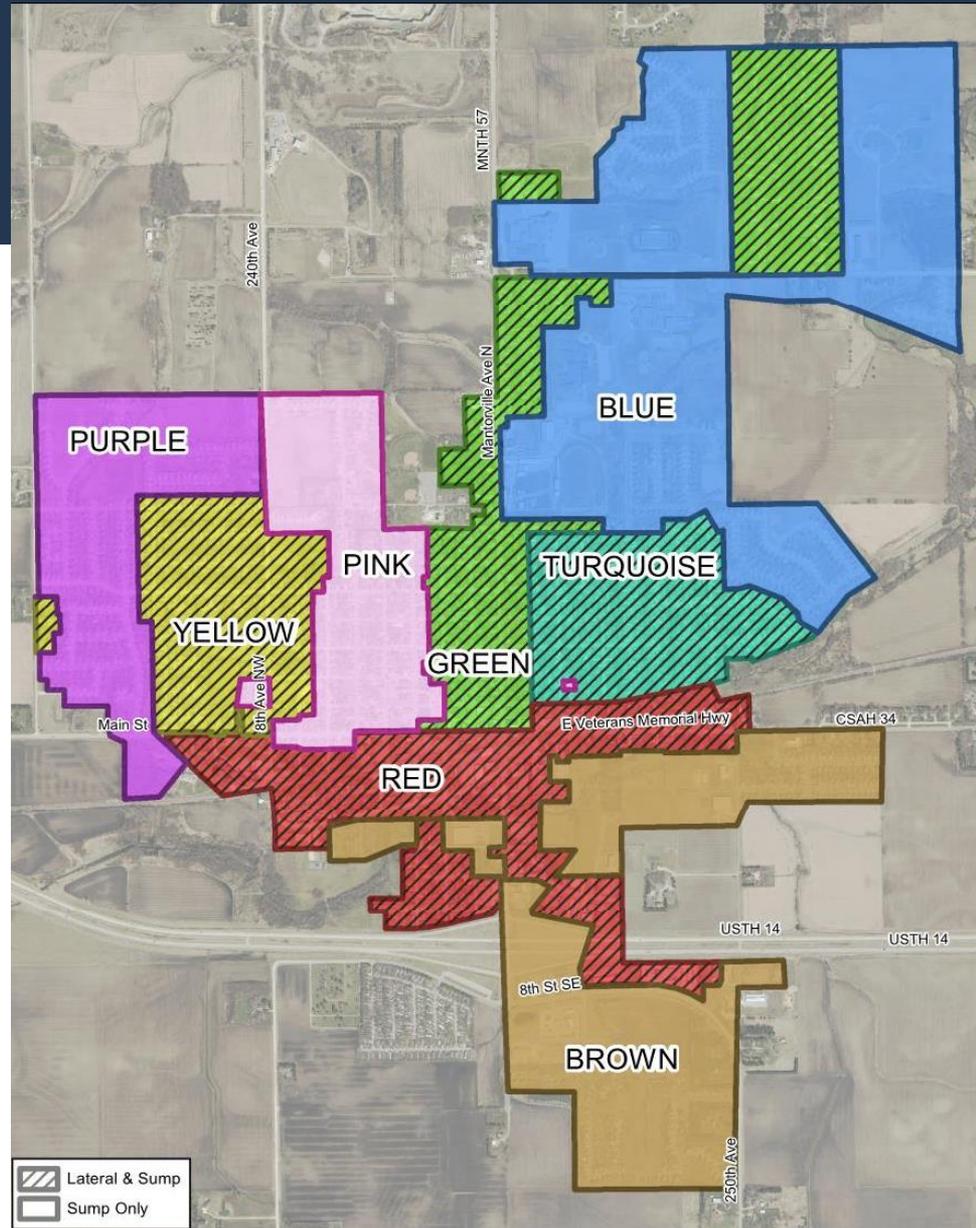
Inspection Type?

- All buildings at minimum will receive a sump inspection.
- Buildings built before 2000 will also receive a lateral inspection.
- No Lateral inspections if building was part of recent Construction Projects

Inspection Type



Interactive map
available at
KassonSump.com



Installation Examples: Sump Pumps

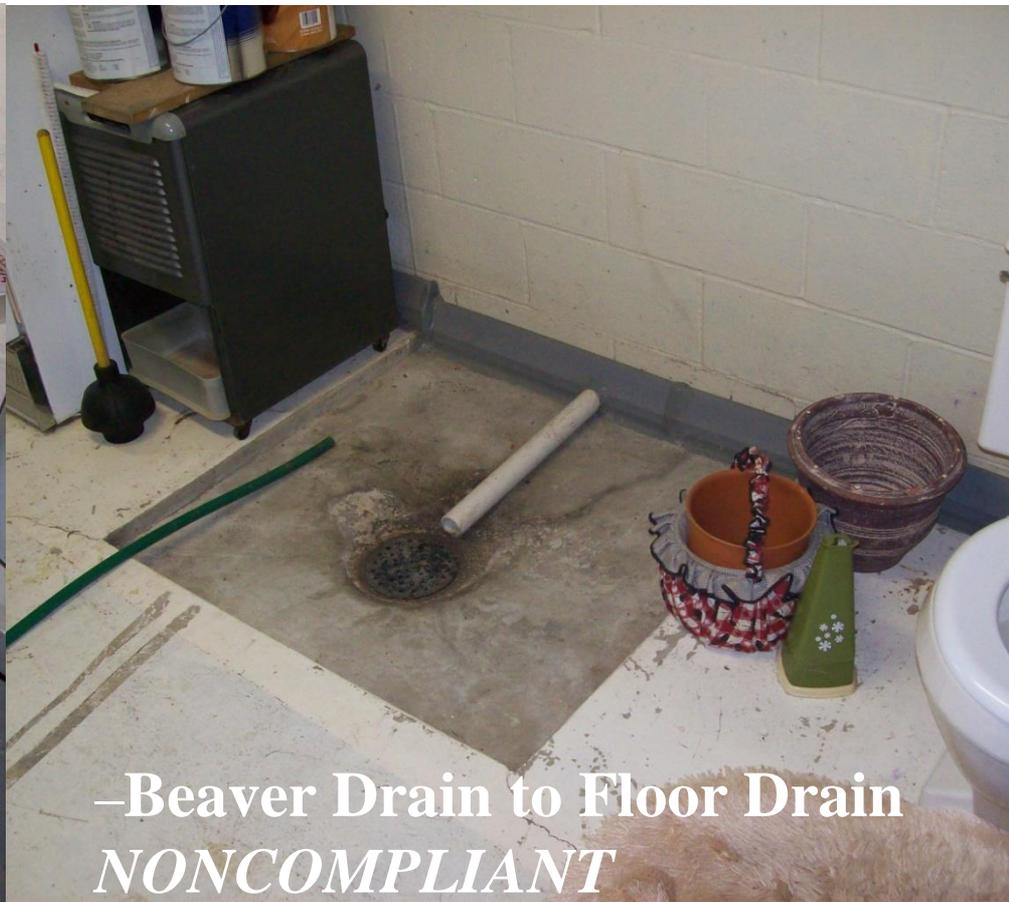


-Rigid Pipe to Outside
COMPLIANT



-Flex Hose to Drain
NONCOMPLIANT

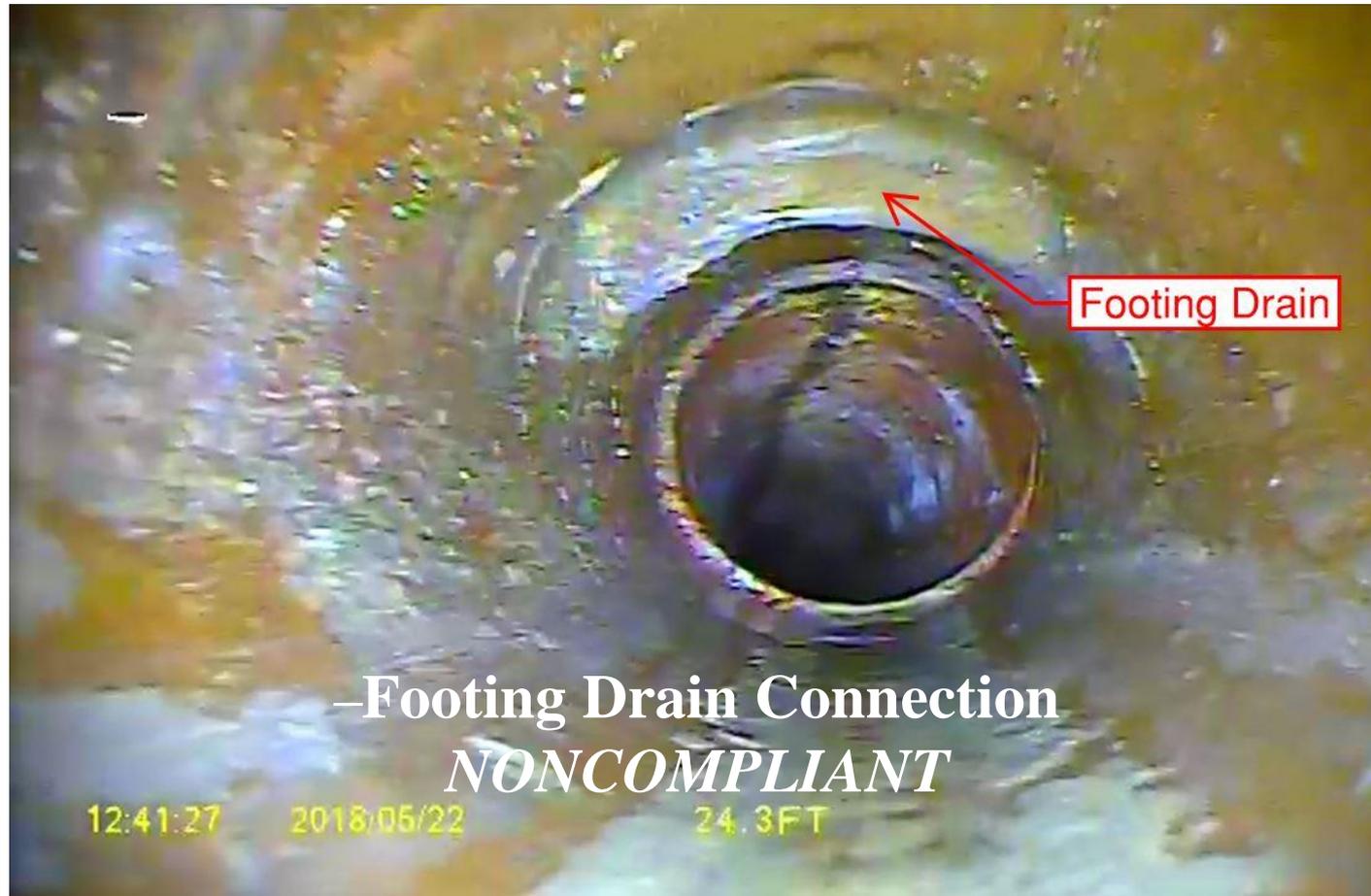
Installation Examples: Beaver Drains



Installation Examples: Beaver Drain / Tile



Installation Examples: Footing Drain Connection



Inspection Form

Inspector _____
 Plumbing License Number _____
Updated 9/20/20

**City of Kasson
 Sump Pump and Lateral Inspection Report**

A. Initial Inspection

1. Owner and Address:
 - a. Owner Name(s): _____
 - b. Address: _____
 - c. Occupants Name (If different): _____
 - d. Owner Address (s): (If different) _____
2. Date of Initial Inspection: _____
3. Date of construction and Building Type? Building built in year _____ (ex. 1959)
 Note residential, apt., commercial, industrial: _____
4. History of backups or flooding? Note date, source, and actions taken: _____
5. Does building have:
 - a. Yes No Exterior grading sloping towards the building?
 - b. Yes No Roof drains that go into the ground?
 - c. Yes No Basement?
 - d. Yes No Seepage collection (beaver) system?
 - e. Yes No Sump pit?
 - f. Yes No Lateral Inspection Conducted?
6. If building has a **roof drain** that goes into the ground, which of the following apply?
 - a. It is properly constructed to discharge to open air or storm system.
 - b. It is improperly constructed to discharge into the sanitary sewer system.
 - c. Discharge location not determined.
7. If there is a **seepage collection (beaver) system**, which of the following apply?
 - a. It is properly constructed to discharge into a sump pit
 - b. It is improperly constructed to discharge into the sanitary sewer system.
 - c. Discharge location not determined.
8. If there is a **sump pit**, which of the following apply?
 - a. Pump is properly plumbed to discharge outside the basement through rigid piping.
 - b. Pump is improperly plumbed to discharge into the sanitary sewer system.
 - c. Pump has the capability of discharging into the sanitary sewer system (ex. flex hose).
 - d. There is a pit with no pump. Plumbing is checked as (a) (b) or (c) if present.
 - e. Discharge location not determined.
9. If **lateral inspection** is conducted, which of the following apply?
 - a. No Suspect Foundation Drain Found
 - b. Suspect Foundation Drain Found
 - c. Suspect Foundation Drain not determined. (Note Why in Comments)
10. If lateral inspection is conducted, fill in information below.
 - a. General Information
 - i. Pipe Diameter (inches) _____
 - ii. Pipe Material (VCP, PVC, DIP, RCP, CMP, CIP, Obg, other) _____
 - iii. CCTV Start Location (i.e. Sewer main, Toilet, Sewer stack, etc) _____
 - iv. CCTV Start Distance from Foundation Wall
 (i.e. Along the alignment of the pipe, how far is the foundation from point of insertion? ft) _____
 - b. Observations (Note footage (ft) of each instance)
 - i. Roots _____
 - ii. Mineral/Unknown Deposits _____
 - iii. Chipped/Cracked Pipes _____
 - iv. Offset Joints _____
 - v. Sags/Deflections _____
 - vi. **Suspect Foundation Drains** _____

11. Other comments (exterior drains, uncapped cleanouts, inactive sump pit, suspect foundation drain etc):

12. Photos taken of Interior Sumps and Collection System, and Building Exterior? Yes No
13. Lateral Inspection Video Submitted on USB-drive (required for lateral inspection)? Yes No
 Video is required to show the point of insertion into the sanitary sewer to 20-feet past the repair (if reinspection) or foundation (initial inspection). Address only needs to be displayed at the beginning of the video. Footage needs to be displayed on the screen at all times. Failure to comply with these requirements or provide a clear video for City review will void the inspection.
 File name _____
14. If 6b, 7b, 8b, 8c, 8d or 9b was checked, a Violation Notice was given to the Occupant or Owner directing them to correct the violation by (date): _____

PASS _____ **FAIL** _____ **City Follow-Up** _____

↑
N

DIAGRAM: roof drains into ground, exterior drains, improper grading, sump pits and pumps, sump pump discharges, beaver systems, sanitary grinder pumps, footing drain connections, etc....

B. Subsequent Inspection

1. Date of subsequent inspection: _____
2. Inspection conducted by _____
3. Does the building now comply with the applicable Ordinance for the City of Kasson?
 Yes No

I hereby verify that the City Representative has inspected the above-described sump pump, lateral (if applicable) and the information set forth above is true and correct to the best of my knowledge.

Occupant/Owner

Date _____

I hereby verify that the City Representative has inspected the above-described sump pump lateral (if applicable) and the information set forth above is true and correct to the best of my knowledge.

City Representative
 Licensed Plumbers: sign with license #.

Date _____

Approximate Inspection Timeline

Item	Date
Public Information Meeting Sump Pump Inspections Only Blue Sector Pink Sector Purple Sector Brown Sector	Sept 30th & Oct. 1st, 2020 October 2020 Mid October 2020 November 2020 Winter 2020-21
Sump Pump and Lateral Inspections Only Inspection Red, Yellow, Green & Turquoise Sectors	Spring 2021 to Fall 2021
All Inspections Completed	Spring 2022

Next Steps

1. Read Information on Website
2. Wait for scheduling letter to arrive.
 - (90 days to schedule)
3. Then contact us by phone or login to website to schedule the appointment.
4. Correct Noncompliant Connections (if applicable)
 - 90 days for Sump Pump
 - 365 days for Footing Drain

Contact and Project Information

- Contact/ Project information
 - Scheduling Website: KassonSump.com
 - Call toll- free: (855) 440-4005

 - Bryan Kaemingk, P.E. 507-288-3923

Questions?

