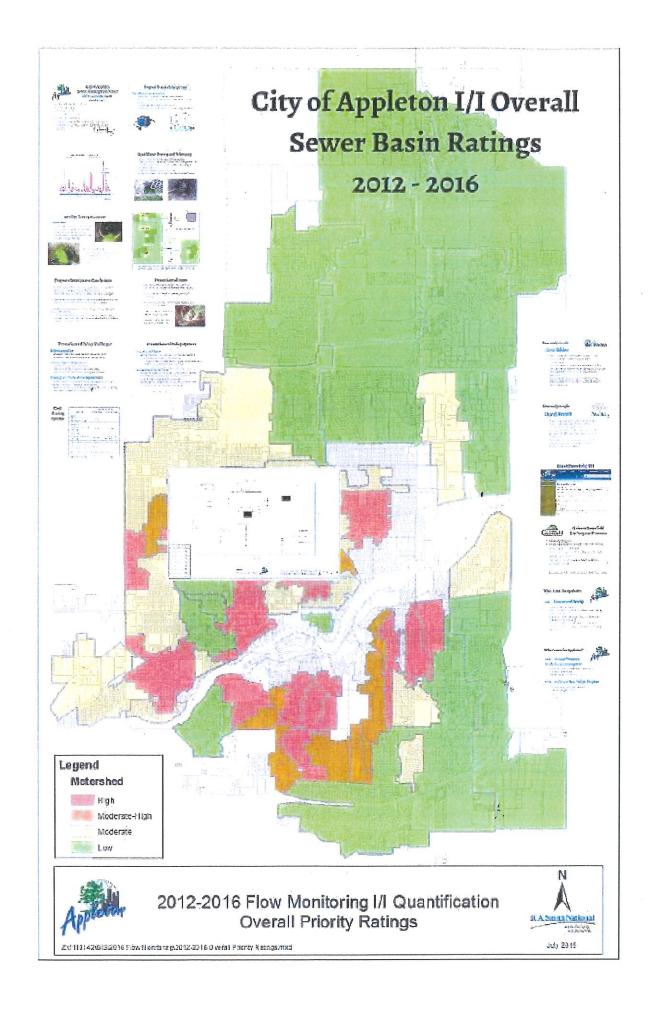
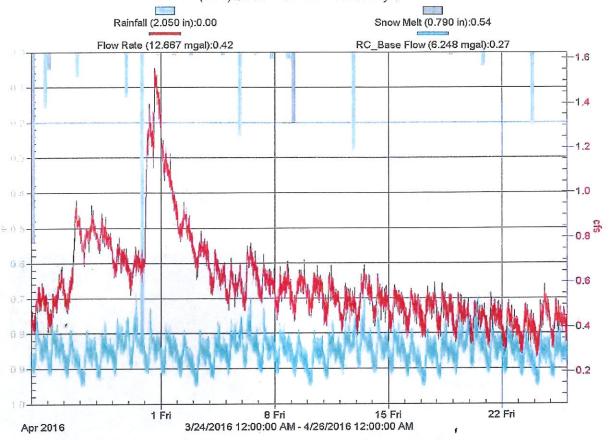
# City of Appleton Sanitary Lateral Replacement Program

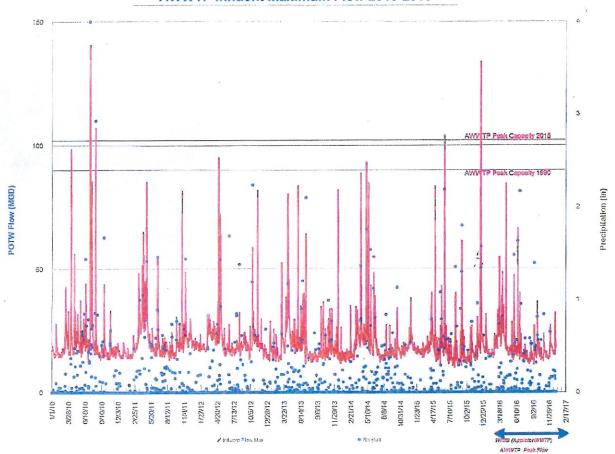
**Proposed Pilot Project Carpenter Street - 2018** 



### 2016 Appleton Flow Monitoring (M-60) Lutz Dr - 24in - March Storm Analysis







## Dyed Water Testing and Televising

- Selected areas with high I/I based on flow analysis
- Simulated rainfall; flooded storm sewers with dyed green water
- Televised sanitary sewers; recorded green water leakage into the sewer system
- · Determined leakage source and severity
- · Documented defects by type, location and estimated flow rate





### 2016 Dye Testing Summary

#### Mainline Sewers

- 14,316 If of sewer tested in October 2016
- 56 sanitary sewer leaks documented
- Estimated total flow rate of 67 gpm
- Found and documented collapsed pipe section (Promptly repaired)

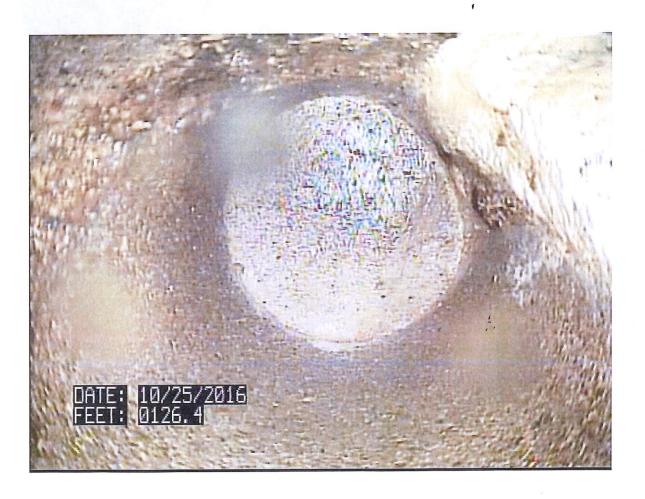




#### Private Sewer Laterals

- 61 leaking private sewer laterals documented
- Estimated total flow rate of 220 gpm





### **Private Lateral Issues**

- Clearwater infiltration and inflow from laterals is substantial and growing; the problem will not go away
- Total private lateral length is often equal to total City sewer length

Private laterals are rarely maintained or replaced unless

blocked and backing up

 "Time and Money" - requires a program, not just a project

 Common challenge for many neighboring and peer cities



### Sanitary Lateral Replacement Program - Talking Points

### **Update on Community Discussions**

- Every community doing it a little differently
- Some bids (lead services) coming in too high so communities not awarding bids
- Village of Kewaskum sanitary lateral program very similar to what we are proposing (except they are charging back 100% to property owners)

#### **Estimated Program Cost**

	City Share	Property Owner Share
Current Program (50/50 cost share in street only) (No private lateral replacement)	\$1,449	\$1,449
Proposed Program - full replacement (Owner volunteers to have private side replaced)	\$2,590	\$990
Proposed Program - street portion only (Owner does not agree to have private side replaced)	\$0	\$2,880

### **Program Schedule**

- 2017
  - Property owner education/ feedback (for the one pilot program street we are recommending Carpenter Street which has 40 laterals)
  - o Finalize pilot program based on feedback
  - Update Assessment Policy and Municipal Code accordingly
- 2018
  - Property owner commitment letters signed
  - Televise sanitary laterals accordingly
- 2019
  - Bid contract based on commitments (pipe bursting) and non-commitments (open-cut)
  - o Review Pilot Program and modify accordingly
- 2020
  - o Full Sanitary Lateral Replacement Program Implemented