

**CITY OF WAUKESHA
 CMOM COLLECTION SYSTEM PROGRESS REPORT
 FEBRUARY 20, 2020**

ACTIVITY	2019 ACCOMPLISHMENTS
SYSTEM INSPECTION / MAINTENANCE	
Gravity Sewers	
Sewer Televising	About 92% of system completed. Will complete entire City in 2020.
Sewer Flushing	4 crews flush entire City annually
Sewer Rehabilitation / Replacement	<p>Replaced/lined mainline sewer and/or laterals in ROW for:</p> <ul style="list-style-type: none"> - Sunset Dr Lining - S West Ave to Sentry - Dunbar Ave / Bethesda Ct / Prospect Ct - Summit Ave - Eastside Beltline ROW (Arcadian to Main) - E Main St - Hine Ave - Greenmeadow Interceptor Sewer <p>Total mainline replacement/lining: 17,626 LF Total lateral replacement/lining in ROW: 4,752 LF</p> <p>Total mainline replacement/lining since 2011: 148,006 LF (28.0 miles) Total lateral replacement/lining in ROW since 2011: 28,538 LF (5.4 miles)</p>
Manholes	
Inspections	98% of system completed. Finish work in 2020.
Manhole Rehabilitation	171 total manholes rehabilitated: <ul style="list-style-type: none"> - 18 cover replacements - 60 chimney replacements - 114 complete MH linings - 22 complete MH replacements - 19 invert rehabilitations
Chimney Seal Installation	Installed 99 seals

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Force Mains	
Ferrous Force Main Replacement	Replaced 2986 feet of Coral Dr & West Ave force mains 2011: 53,824 LF (11.4 miles) remaining 2019: 27,044 LF (5.1 miles) remaining
Inspections	Inspected all air relief valves
Pump Stations	
Pump Station Inspection	Weekly inspections completed
Pump Station Rehabilitation	- Completed Milky Way, Springbrook, and Pearl St.
Pump Station Elimination	- Finished construction of \$17M Greenmeadow / Woodfield interceptor sewer which eliminated both the Greenmeadow and Woodfield pump stations. (Eliminated 9500 feet of ferrous force main) - Finished design of west-side pump station consolidation which was investigated back in 2015. Consolidation would eliminate, Coneview, Summit, and Fiddlers Creek PS.
Pump Station Wet Well Cleaning	Performed cleaning at all stations
Pump Station Maintenance	- Replaced pumps, guide rails, and other items - Oil changes and annual maintenance; wear parts
CAPACITY	
Peak Flow Reduction	For 2019, the average monthly difference in Clean Water Plant (CWP) influent versus Water Utility pumping was 5.476 MGD. This is higher than the historical (2005-2010) monthly difference of 3.390 MGD by 2.086 MGD. The precipitation for the year was 9.17 inches below the historical annual total. This marks the fourth consecutive year of above average precipitation.

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ACTIVITY	2019 ACCOMPLISHMENTS
TRAINING	
Confined space entry	Completed entry practice training
Manhole & Sewer Assessment	Televising sewer crews to refresher training
POLICY ISSUES	
Codes / Standards	
Update municipal codes to comply with CMOM goals	Published updated development handbook and construction specifications and implemented for 2020 development and construction projects.
Source Control	
Odor control	Continue to see reduction in complaints. None logged.
TRACKING	
Sewer flushing	Created new application in asset management software (VUEWorks) to electronically track sewer flushing progress and allow crews to input defects encountered