

**CITY OF WAUKESHA
 CMOM COLLECTION SYSTEM PROGRESS REPORT
 FEBRUARY 18, 2021**

ACTIVITY	2020 ACCOMPLISHMENTS
SYSTEM INSPECTION / MAINTENANCE	
Gravity Sewers	
Sewer Televising	Completed televising of all 251 miles of sewer in City over approx. 10 years. Continue televising going forward.
Sewer Flushing	3 crews flush entire City annually
System Investigation	Sewer televising crew investigated sewers/laterals with elevated water flows. Significant leaks detected in several laterals. Letters sent to owners and repairs were made.
Sewer Rehabilitation / Replacement	<p>Replaced/lined mainline sewer and/or laterals in ROW for:</p> <ul style="list-style-type: none"> - Pebble Valley area lining - Sunset Dr / Heyer Area lining - Barstow St / Riverfront St - S Hartwell Ave / Oxford Rd - E Roberta Ave / Tenny Ave - Harrison Ave / Frame Ave / Wabash Ave - Asphalt resurfacing <p>Total mainline replacement/lining: 22,955 LF Total lateral replacement/lining in ROW: 10,668 LF</p> <p>Total mainline replacement/lining since 2011: 170,961 LF (32.4 miles) Total lateral replacement/lining in ROW since 2011: 39,206 LF (7.4 miles)</p>
Force Mains	
Ferrous Force Main Replacement	<p>Work underway for lining of Coneview & Pebble Valley forcemains in 2021.</p> <p>2011: 53,824 LF (11.4 miles) remaining 2020: 27,044 LF (5.1 miles) remaining</p>

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Manholes	
Inspections	City crews located manholes that were identified as buried/missing during 2019 inspections
Manhole Rehabilitation	253 total manholes rehabilitated: <ul style="list-style-type: none"> - 24 cover replacements - 207 chimney replacements - 1 cone replacement - 13 grout manhole - 71 complete MH linings - 5 complete MH replacements - 78 invert rehabilitations
Chimney Seal Installation	Installed 202 seals
Pump Stations	
Pump Station Inspection	Weekly inspections completed
Pump Station Rehabilitation	- Work underway on Madison St as part of West Side Consolidation
Pump Station Elimination	<ul style="list-style-type: none"> - Began construction of west-side pump station consolidation which was investigated back in 2015. Consolidation would eliminate, Coneview, Summit, and Fiddlers Creek PS. - Sent out RFP for South Side Pump Station Consolidation Project. Project could potentially eliminate up to 5 stations.
Pump Station Wet Well Cleaning	Performed cleaning at all stations
Pump Station Maintenance	<ul style="list-style-type: none"> - Replaced pumps, guide rails, and other items - Oil changes and annual maintenance; wear parts

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CAPACITY	
Peak Flow Reduction	<p>For 2020, the average monthly difference in Clean Water Plant (CWP) influent versus Water Utility pumping was 4.118 MGD. This is higher than the historical (2005-2010) monthly average difference of 3.390 MGD by 0.728 MGD. This is the smallest increase above the historical monthly average since 2016. This may be attributable to the extensive sewer lining work conducted in the Pebble Valley area recognized as contributing a significant level of I/I to the system.</p> <p>The precipitation for the year was 0.17 inches below the historical annual total. This marks the first time in five years that the precipitation fell below the historical average precipitation.</p>
COMMUNICATIONS	
CMOM Plan	Completed complete update of plan based on system changes/updates
TRAINING	
Confined space entry	Completed entry practice training
Manhole & Sewer Assessment	Televising sewer crews and supervisors to refresher training
EQUIPMENT	
New equipment	<ul style="list-style-type: none"> - New replacement sewer flusher truck - Ordered replacement vacuum truck for delivery in 2021
POLICY ISSUES	
Source Control	
Odor control	Continue to see reduction in complaints. None logged.

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TRACKING	
Sewer flushing	Continued work with new application in asset management software (VUEWorks) to electronically track sewer flushing progress and allow crews to input defects encountered