

**CITY OF WAUKESHA  
 CMOM COLLECTION SYSTEM PROGRESS REPORT  
 FEBRUARY 17, 2022**

ACTIVITY	2021 ACCOMPLISHMENTS
<b>SYSTEM INSPECTION / MAINTENANCE</b>	
<b>Gravity Sewers</b>	
Sewer Televising	None completed. Moved to 2022.
Sewer Flushing	3 crews flush entire City annually
System Investigation	Began a pilot project with a consultant to assist in the process of determining the amount of I/I present in a given manhole. This would allow the quick determination of I/I sources so they might be eliminated.
Sewer Rehabilitation / Replacement	<p>Replaced/lined mainline sewer and/or laterals in ROW for:</p> <ul style="list-style-type: none"> <li>- Lawndale Ave / Fairmont St / Caldwell St</li> <li>- N &amp; S Prairie Ave / Sentry Dr / W Sunset Dr</li> <li>- Perkins Ave</li> <li>- Oxford Rd &amp; Downing Dr / Algoma Terr &amp; Rawlins Dr / Badger Dr</li> <li>- Asphalt resurfacing</li> </ul> <p>Total mainline replacement/lining: 11,971 LF            Total lateral replacement/lining in ROW: 3,466 LF</p> <p>Total mainline replacement/lining since 2011: 182,932 LF (34.7 miles)</p> <p>Total lateral replacement/lining in ROW since 2011: 42,672 LF (8.1 miles)</p>
<b>Force Mains</b>	
Ferrous Force Main Replacement	<p>Replaced 3900 feet of Pebble Valley and 2500 feet of Coneview force mains</p> <p>2011: 53,824 LF (11.4 miles) remaining            2020: 18,585 LF (3.5 miles) remaining</p>

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<b>Manholes</b>	
Inspections	Selected consultant for a four-year inspection of all manholes beginning in 2022
Manhole Rehabilitation	287 total manholes rehabilitated: - 9 cover replacements - 235 chimney replacements - 1 grout manhole - 38 complete MH linings - 11 complete MH replacements - 63 invert rehabilitations
Chimney Seal Installation	Installed 252 seals
<b>Pump Stations</b>	
Pump Station Inspection	Weekly inspections completed
Pump Station Rehabilitation	<ul style="list-style-type: none"> <li>- Completed Madison St as part of West Side Pump Station Consolidation</li> <li>- Replaced Frame Park</li> <li>- Continued upgrade of Pebble Valley</li> </ul>
Pump Station Elimination	<ul style="list-style-type: none"> <li>- Completed construction of West Side Pump Station Consolidation Project. Completed decommissioning of Coneview, Summit, and Fiddlers Creek stations</li> <li>- Determined alternative for South Side Pump Station Consolidation Project and moved into design phase. Project will eliminate Sunset Dr &amp; Burr Oak pump stations.</li> </ul>
Pump Station Wet Well Cleaning	Performed cleaning at all stations
Pump Station Maintenance	<ul style="list-style-type: none"> <li>- Replaced pumps, guide rails, and other items</li> <li>- Oil changes and annual maintenance; wear parts</li> </ul>

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<b>CAPACITY</b>	
Peak Flow Reduction	<p>For 2021, the average monthly difference in Clean Water Plant (CWP) influent versus Water Utility pumping was 1.383 MGD. This is lower than the historical (2005-2010) monthly average difference of 3.390 MGD by 2.007 MGD. This marks the first time since yearly comparisons began in 2010 where the average monthly difference was lower than the historical monthly average difference for each month of the year. The plant inflow recorded also includes approximately 25 million gallons of contaminated groundwater from the Lake Michigan return flow piping project discharged into the plant in May, June, and July.</p> <p>We continue to see lower pumping times at our Pebble Valley pump station which we attribute to the extensive sewer lining work conducted in the Pebble Valley area in 2020. This area was recognized as contributing a significant level of I/I to the system in our Sanitary Sewer Master Plan. In 2021, the sewer along the Fox River and on Sentry Dr was lined and many leaks were found, including a major leak near the plant entrance.</p> <p>The precipitation for the year was 4.74 inches below the historical annual total. This marks the second time in five years that the precipitation fell below the historical average precipitation.</p>
<b>TRAINING</b>	
Confined space entry	Completed entry practice training
<b>EQUIPMENT</b>	
New equipment	<ul style="list-style-type: none"> <li>- 2 new portable pump boxes</li> <li>- New portable manhole/wetwell barricade system for fall protection</li> <li>- New portable BOD meter</li> <li>- New portable chloride meter</li> </ul>

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ACTIVITY	2021 ACCOMPLISHMENTS
<b>POLICY ISSUES</b>	
<b>Codes / Standards</b>	
Update municipal codes to comply with CMOM goals	Updated development handbook and construction specifications for 2022 development and construction projects
<b>Source Control</b>	
Odor control	Continue to see reduction in complaints. None logged.
<b>TRACKING</b>	
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