

RJN Partnered with Mount Pleasant Waterworks to Proactively Identify Defects

Since the early 1990s, the wastewater collection system of the Mount Pleasant Waterworks (MPW) experienced significant expansion to accommodate growth. When wet-weather began to elevate flows and stress the system, the MPW decided to take action to increase the system's capacity and efficiency by identifying I/I and reducing the wet-weather flows. RJN Group, Inc. was contracted to perform an SSES to accomplish MPW's goal.



RJN completed the following services:

- Flow monitoring at 70 locations
- Flow isolation weir measurements at 167 locations
- Smoke testing of 936,207 linear feet of sewer
- Dye testing at 186 locations
- Manhole inspections at 4,335 locations
- 6,900 manhole location verifications with GPS
- Analysis and reporting
- Rehabilitation recommendations



The smoke testing and manhole inspection results helped to identify potential television inspection locations. Inflow was identified to be the most significant issue in the system and over \$3 million of needed manhole

repairs were identified, which contributed 6.42 mgd of inflow.

Through working with RJN, the MPW was able to obtain a detailed roadmap of system problems to direct their rehabilitation program.