

## **Summary of Engineering and Planning (E&P) Subcommittee April 1, 2021 Meeting for April 2021 MWPAAC General Meeting**

### **Asset Management – Condition Monitoring Program (Joint Topic with Rates and Finance Subcommittee)**

As part of the continuing presentations on Asset Management, WTD presented the types of technologies that they use to predict the current condition of equipment and when maintenance, repairs, and replacement will likely be needed. These technologies include analysis of oil, fuel oil, vibration, heat (using thermal imaging), ultrasound, and electronic data capture and analysis (e-logs). The data is stored in WTD's Computerized Maintenance Management System (CMMS), together with the work order history and frequency, to forecast replacement timing and cost. WTD seeks to complete at least 90% of predictive maintenance task, and reviews the completion rate weekly. Three reliability engineers work with the Assistant Operations Manager to analyze whether equipment is wearing out more slowly than anticipated, what is causing the most frequent failures, and how to best coordinate feedback between Operations and Maintenance. By forecasting maintenance needs for the next 6 year period and beyond, this program can help smooth out expenditures that impact sewer rates.

### **Infiltration/Inflow (I/I) Control Program – E&P Recommendations on Regional Best Management Practices**

E&P Subcommittee discussed the following 4 Best Management Practices that would be implemented voluntarily by the local agencies to reduce existing I/I in side sewers:

1. Prohibit unauthorized connections – revise or modify city codes (Districts to work with their local Cities)
2. Notify customers (e.g., letter or door hanger) about roots in side sewers (observed during CCTV of mainlines)
3. Provide customers with side sewer maintenance information (e.g., bill stuffers)
4. Provide customers with information about unauthorized connections (e.g., bill stuffers)

E&P will present these BMPs at the April 28 meeting, together with a letter to the WTD Director requesting that WTD prepare materials to assist local utilities with implementation of these measures.

#### **Questions?**

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