Abstract

LINK TO PAPER
Prioritize Capital Improvement Projects
Track: Water, Wastewater, and Stormwater
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Long Beach Water Department (LBWD) provides water and wastewater services in the 5th largest city in California. Its potable water system contains 912 miles of mains with more than 121,000 services. LBWD is replacing its aging infrastructure at an affordable and responsible pace. It has a capital improvement program (CIP), and replaces 85,000-100,000 feet of potable water mains a year. Prioritizing CIP projects and replacing water mains just in time present a challenge. Mainbreaks data for the past 12 years have been grouped by pipe material, diameter, age, job number, etc. Mainbreaks intensity was calculated and sorted in a descending order. Then pipe segments in more critical need of replacement were selected. The GIS application supports decision making in CIP planning, budgeting, and operations.

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