

# Abstract

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### **GIS Data Consolidation for OWASA's Water Main Prioritization**

**Track:** Water, Wastewater, and Stormwater

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The Orange Water and Sewer Authority, in Orange County, North Carolina, is proactively prioritizing mains in its 360-mile water system that may need to be replaced or rehabilitated (R&R). This paper describes the first phase of this project to create a dynamic water main R&R prioritization model: data gap analysis and weighted service level criteria factors. Baseline data was collected and input into OWASA's geodatabase. Earth Tech assisted by populating specific fields such as date of installation, water quality concerns, number of breaks/leaks, and hydraulic performance. The final product will be a Microsoft Access/ ArcGIS model with detailed documentation.

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