

Asset Management Program Update

Linear Water and Wastewater Assets

September 15th 2026

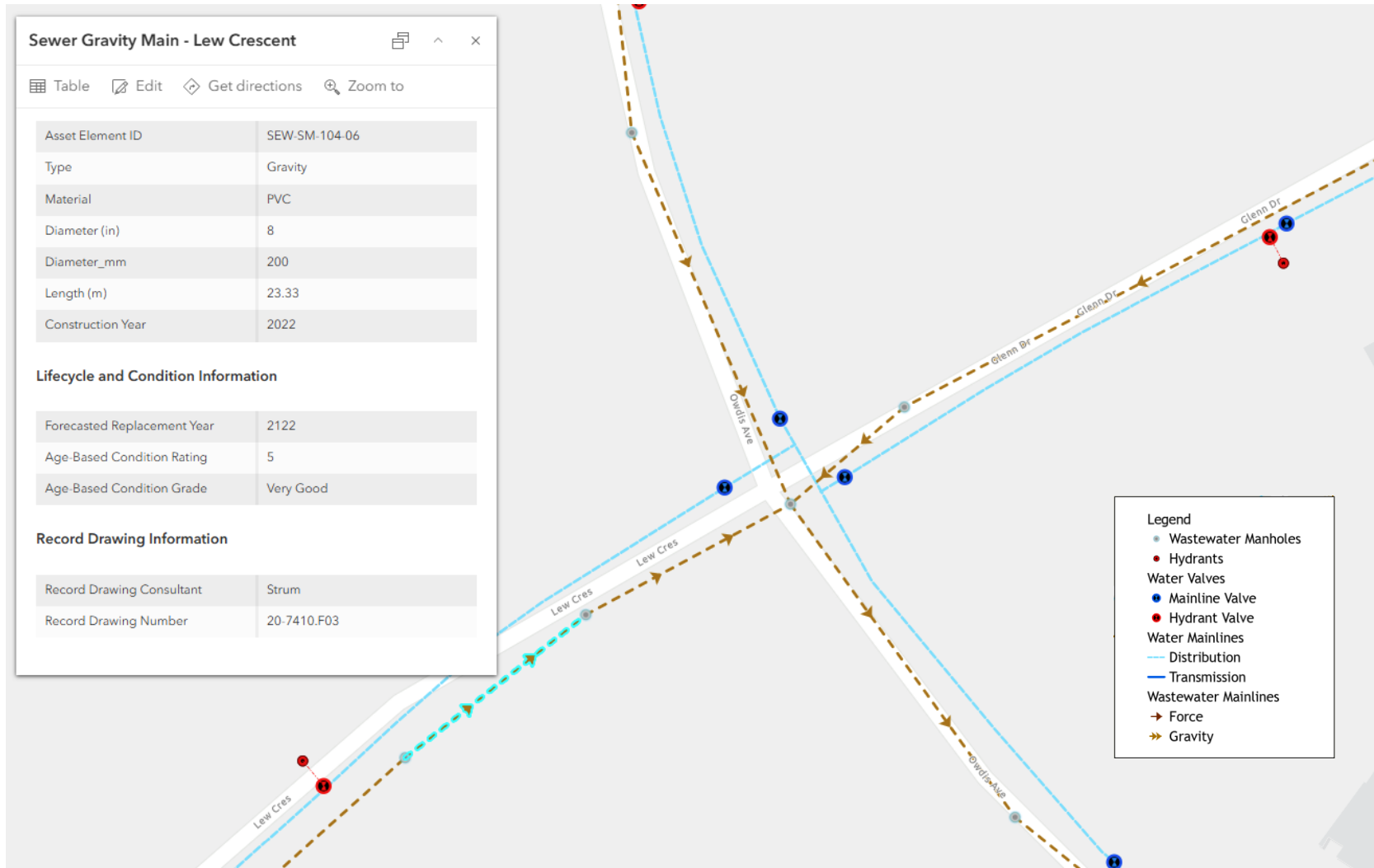


EAST HANTS

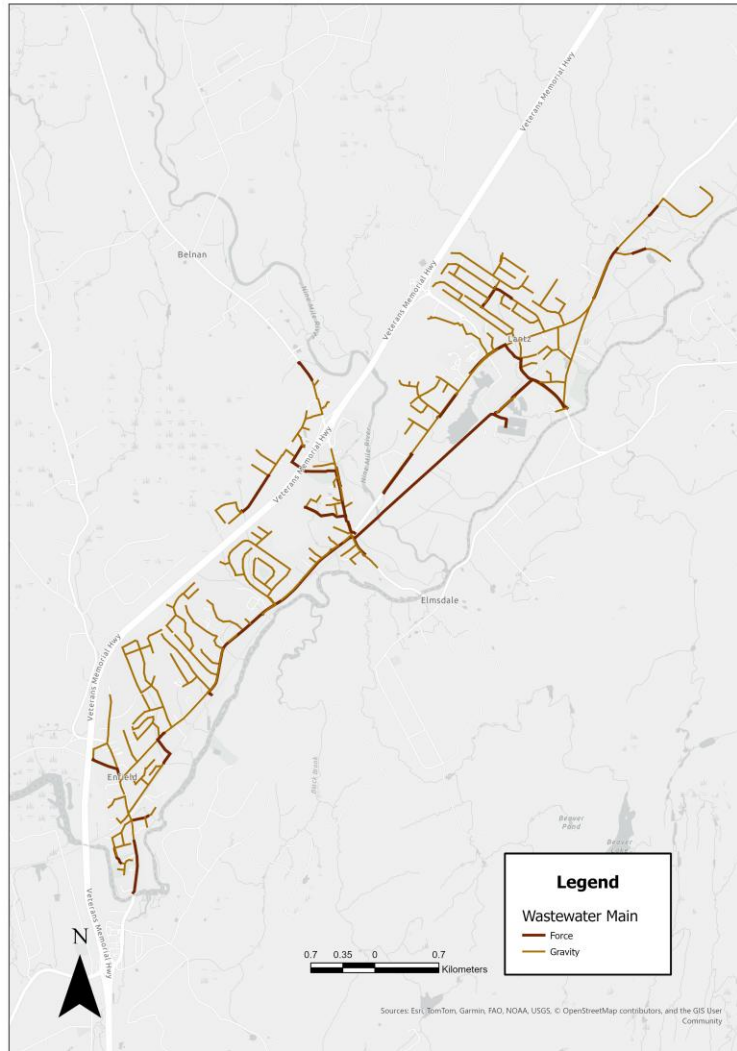
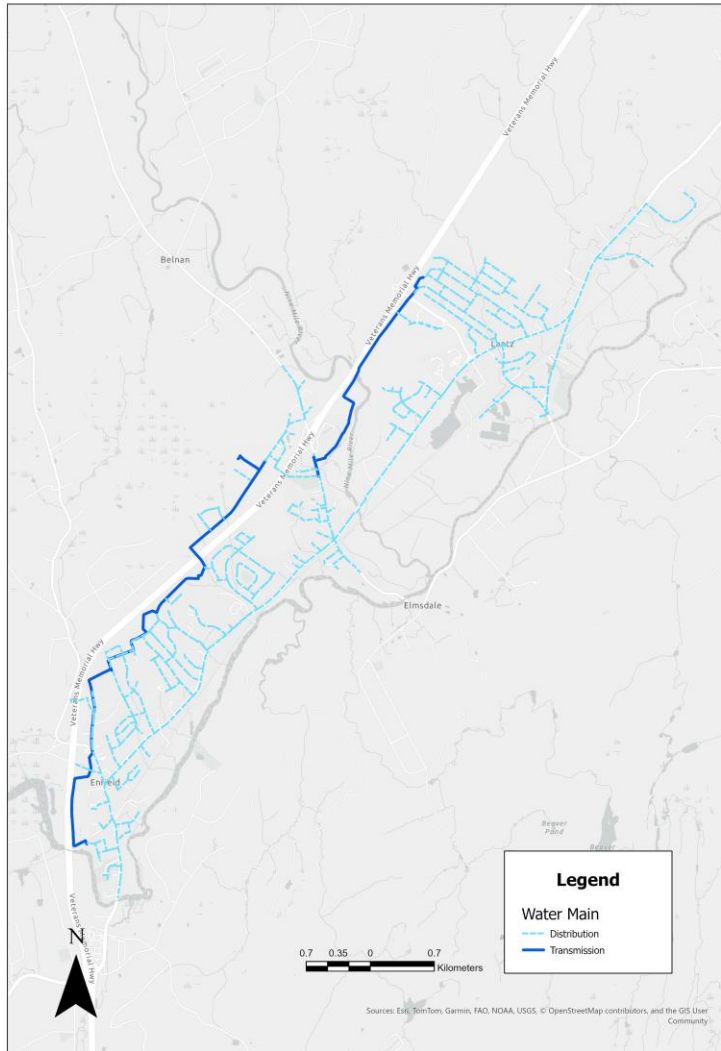
Background

- Since the last update, the AM Program has shifted its primary focus to water and wastewater assets. Building a reliable asset inventory of water and wastewater pipes with verified core attributes was a goal of the 2025-26 workplan, and was also a recommendation coming out of the Servicing Capacity Study.
- **Through Summer 2025 to early 2026:**
 - Over 5000 high-accuracy GPS points of water and wastewater ground-level infrastructure (water valves, wastewater manholes) were collected with the help of an AM Summer student.
 - Review of all as-built record drawings for Municipal water and wastewater construction to confirm size, material, and year, and identified flow direction for wastewater pipe. Work with water and wastewater operations staff to field verify where necessary.
 - Research and jurisdictional scanning on pipe unit costs and materials lifespans.

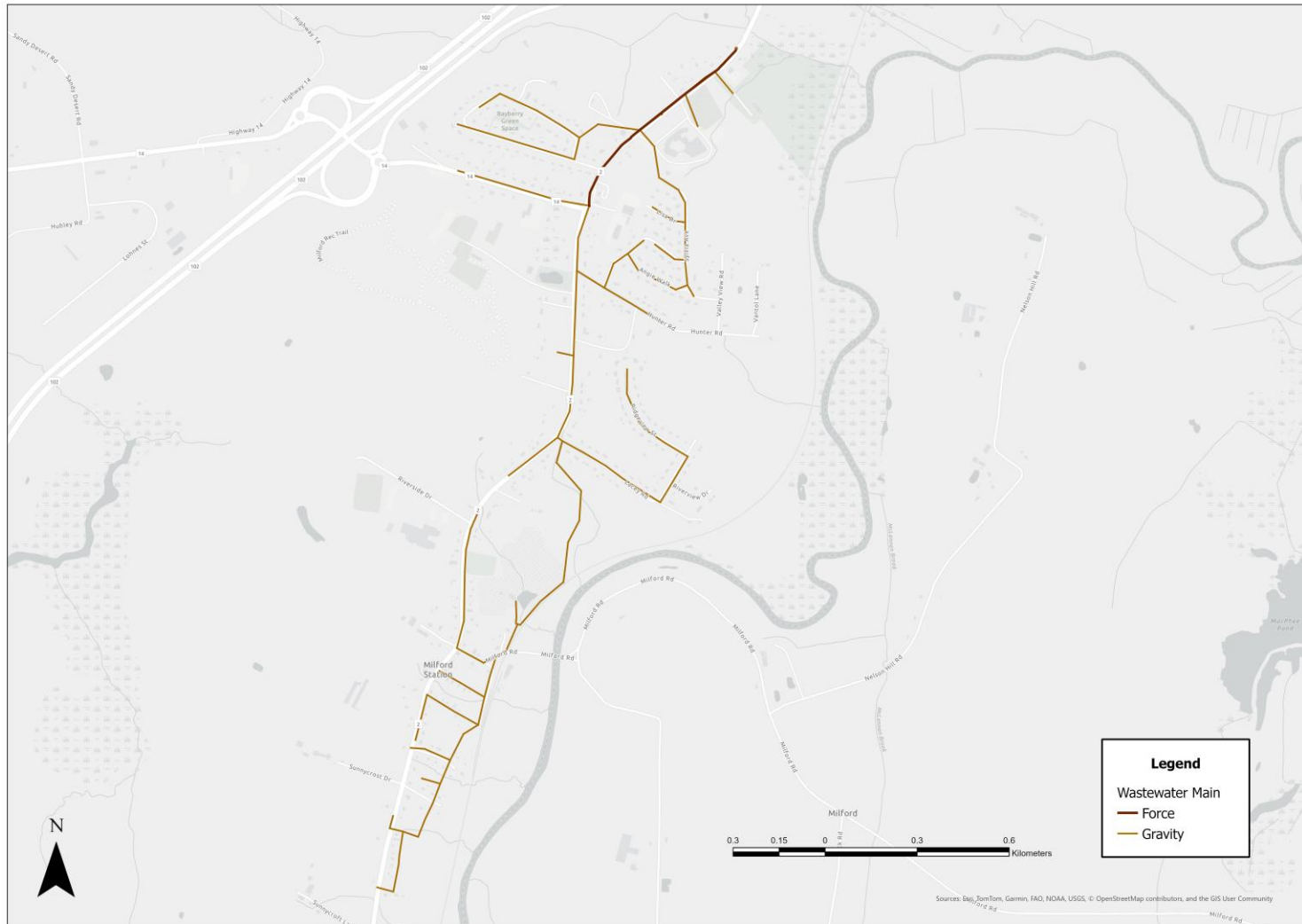
Background



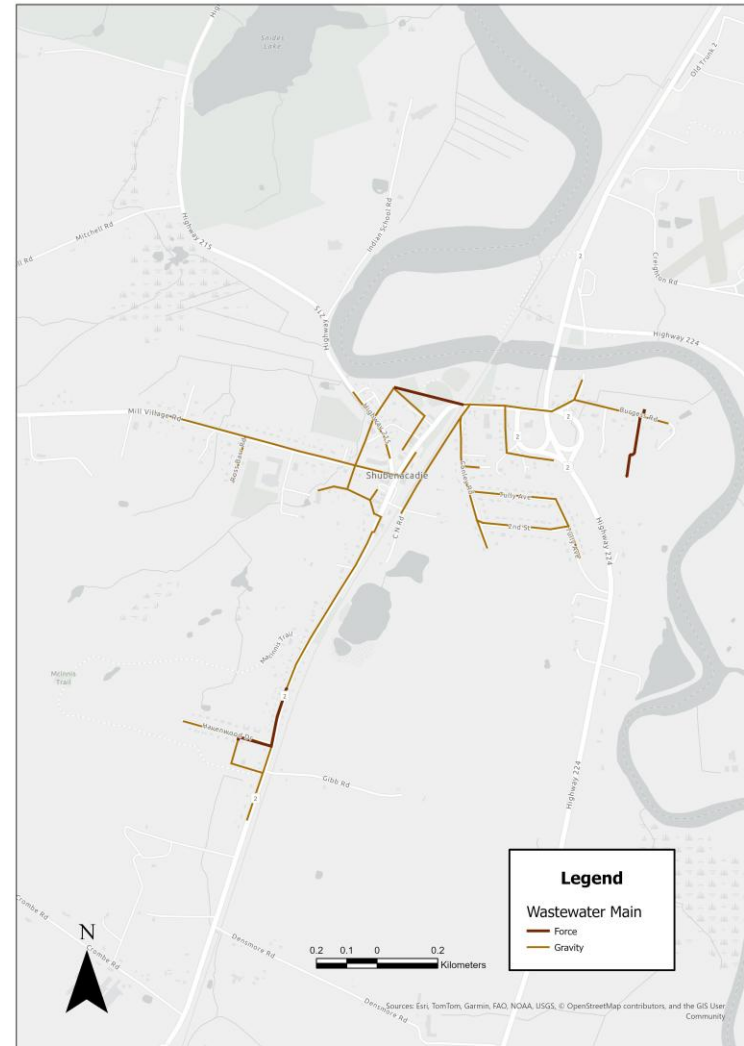
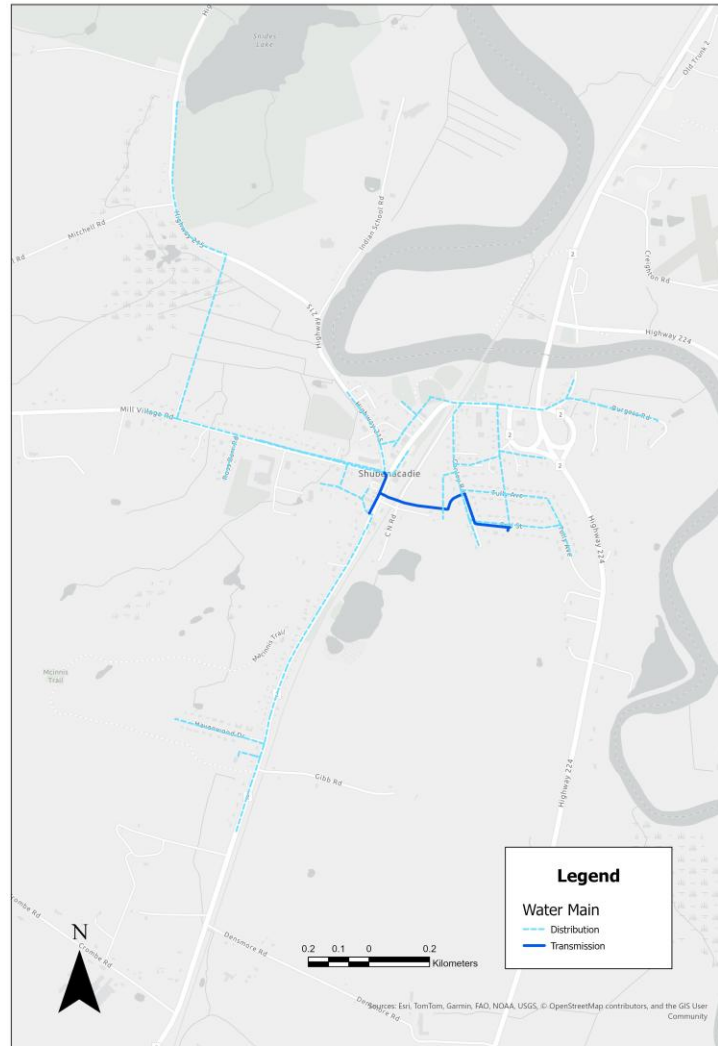
Water and Wastewater Main in the Regional System



Wastewater Main in Milford

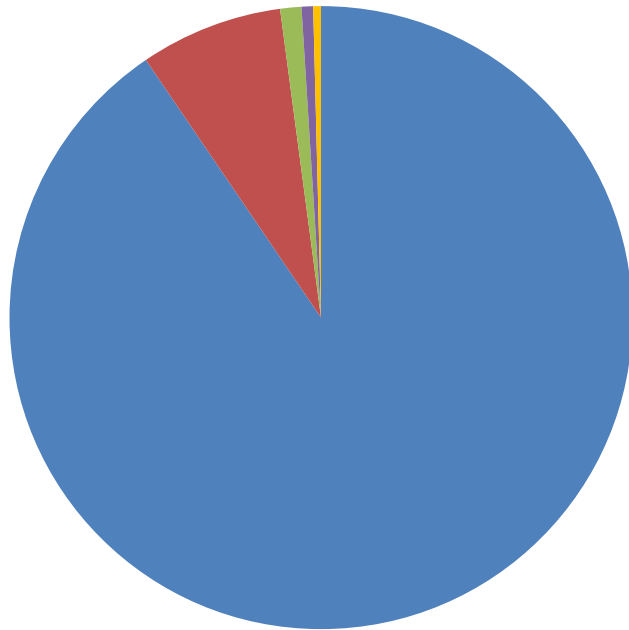


Water and Wastewater Main in Shubenacadie



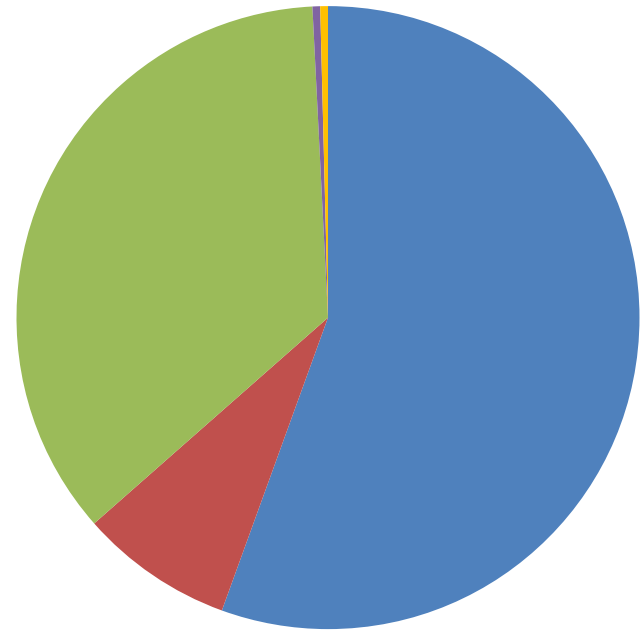
Discussion - Pipe Materials Breakdown

Water Pipe Material Breakdown



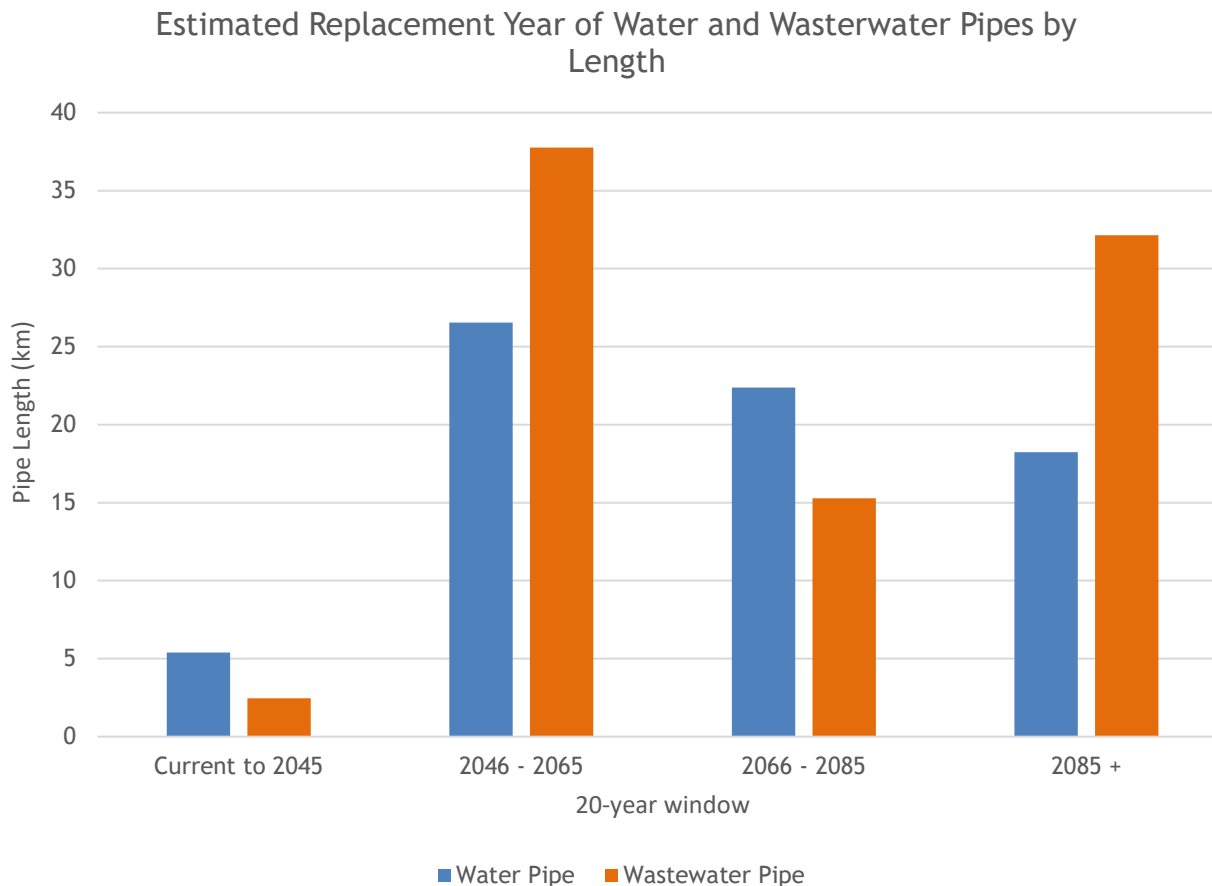
■ PVC ■ Asbestos Cement ■ HDPE ■ Copper ■ Ductile Iron

Wastewater Pipe Material Breakdown



■ PVC ■ Asbestos Cement ■ Concrete ■ Cast Iron ■ Ductile Iron

Discussion - Estimated Replacement Year



Estimated Replacement Year is determined by the known construction year of the pipe, and the industry standard lifespan estimate for each material and type of pipe.

Discussion - Other Considerations

- Material
- Type
- Construction Date

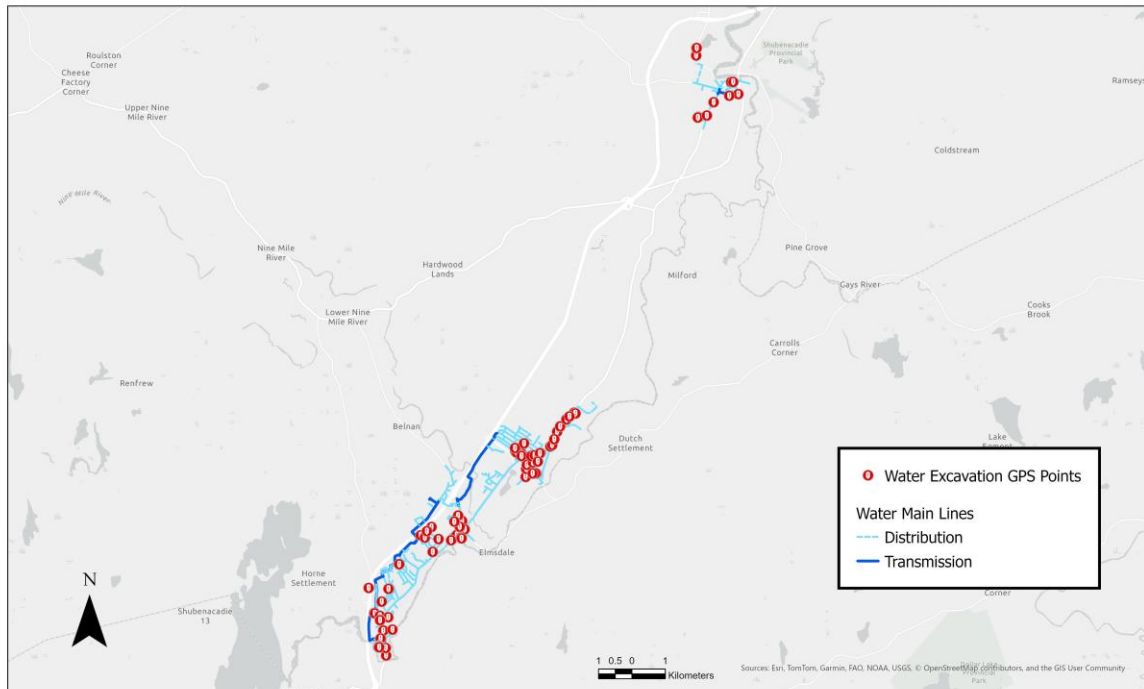
Age-based
replacement
considerations

- Operational Performance/Repair History
- Observed Condition (example: CCTV footage)
- System Capacity Considerations
- Proximity to other infrastructure
- Climate Change impacts
- Socio-demographic considerations

Potential local risk
factor examples

Operationalizing Water and Wastewater Asset Data

Water Excavation GPS Points



- Operations staff are using high-accuracy point data to more quickly and easily locate infrastructure in the field.
- Staff are also collecting GPS data at locations where main and service line repairs are occurring.

Asset Data Accessibility in the Field



In addition to finding data and collecting new GPS points, accurate and centralized spatial asset inventories are allowing the Water and Wastewater operations team attach mobile inspections and maintenance forms directly to individual assets.

Next Steps

- Continuing to enhance operations capabilities and using the collected data to help decision-making.
- Inventories for vertical water and wastewater assets is in progress; Treatment facilities, water towers, lift stations using the same core Asset Management principles and applying them to a more complex asset.
- Continuing Asset Management software information gathering.
- Continuous asset onboarding and data maintenance to all service areas in the Asset Management Program.



Recommended Motion

- ***That the Corporate and Residential Services Committee recommends to Council that they receive and file the Asset Management Program Update - Linear Water and Wastewater report dated August 17, 2026***