



these old-growth trees must be removed, thereby depriving residential streets of shade and cooling, natural flood abatement, and an important aesthetic to a community; and

WHEREAS, an industry-tested, non-invasive technology, cured-in-place pipe (CIPP), exists as an alternative that can provide a valuable, cost-effective alternative to trenching and water main removal; and

WHEREAS, this technology relies on a simple process that generally involves inserting a tube of a woven material like polyester, fiberglass cloth, felt, or other materials that have been soaked in a resin compound, and inserted into the pipe. The resin is cured using a variety of methods, including UV light and steam, and forms a tight-fitting, seamless cover within the pipe; and

WHEREAS, other cities of significant population and density, including Chicago's sister city Toronto, have successfully implemented CIPP projects. Many cities in Illinois, including Evanston, Rockford, Arlington Heights, and Lombard, have successfully implemented tens of thousands of feet of successful CIPP projects; and

WHEREAS, the Illinois Environmental Protection Agency has, on many occasions and in many Illinois cities, issued the necessary permits for the implementation of CIPP projects; and

WHEREAS, the City of Chicago is a self-permitting city with regards to water main projects, possessing the necessary authority to approve the use of CIPP, and

WHEREAS, the City of Chicago's only existing pilot of CIP technology, a roughly 300' project, showed increased water quality at the only home tested as part of the project. The pilot CIPP water main remains in service today, and has not exhibited any adverse effects; and

WHEREAS, a larger pilot program would allow the City to fairly evaluate the merits of this technology in comparison to the current trenching and replacement techniques, and

**WHEREAS, the experiences of other municipalities demonstrate significant potential for savings with the use of CIPP; NOW THEREFORE,**

BE IT ORDERED, the City of Chicago, the Chicago Department of Water Management, the Chicago Department of Public Health, shall be ordered to commission or conduct a substantial pilot program, consisting of no less than 10,000 feet of CIPP-lined water main restoration. This program shall be to be fully evaluated to determine its feasibility on a city-wide scale and should scrutinize CIPP's durability, cost-effectiveness, water quality, and environmental, infrastructure, and traffic impacts. A detailed pilot program report shall be delivered to City Council no later than July 1, 2020; and

BE IT FURTHER ORDERED, that the Chicago Department of Water Management consult with the Bureau of Forestry to evaluate all water main replacement projects scheduled between July 24, 2019 and December 31, 2020, to ensure that no water main projects under consideration move forward that would remove any trees from the public way.

BRIAN HOPKINS Alderman 2nd Ward

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