

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MAY 14, 2012
FROM:	JOHN BRAAM, P. Eng. ACTING EXECUTIVE DIRECTOR, PLANNING, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	WHITE OAK ROAD WATERMAIN REPAIR EMERGENCY WORK

RECOMMENDATION

That, on the recommendation of the Acting Executive Director, Planning, Environmental & Engineering Services & City Engineer, the following report on an emergency watermain repair on White Oak Road **BE RECEIVED** for information.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
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No previous reports

BACKGROUND

Purpose:

Provide information on the emergency watermain repair undertaken on White Oak Road at Highway 401.

Discussion:

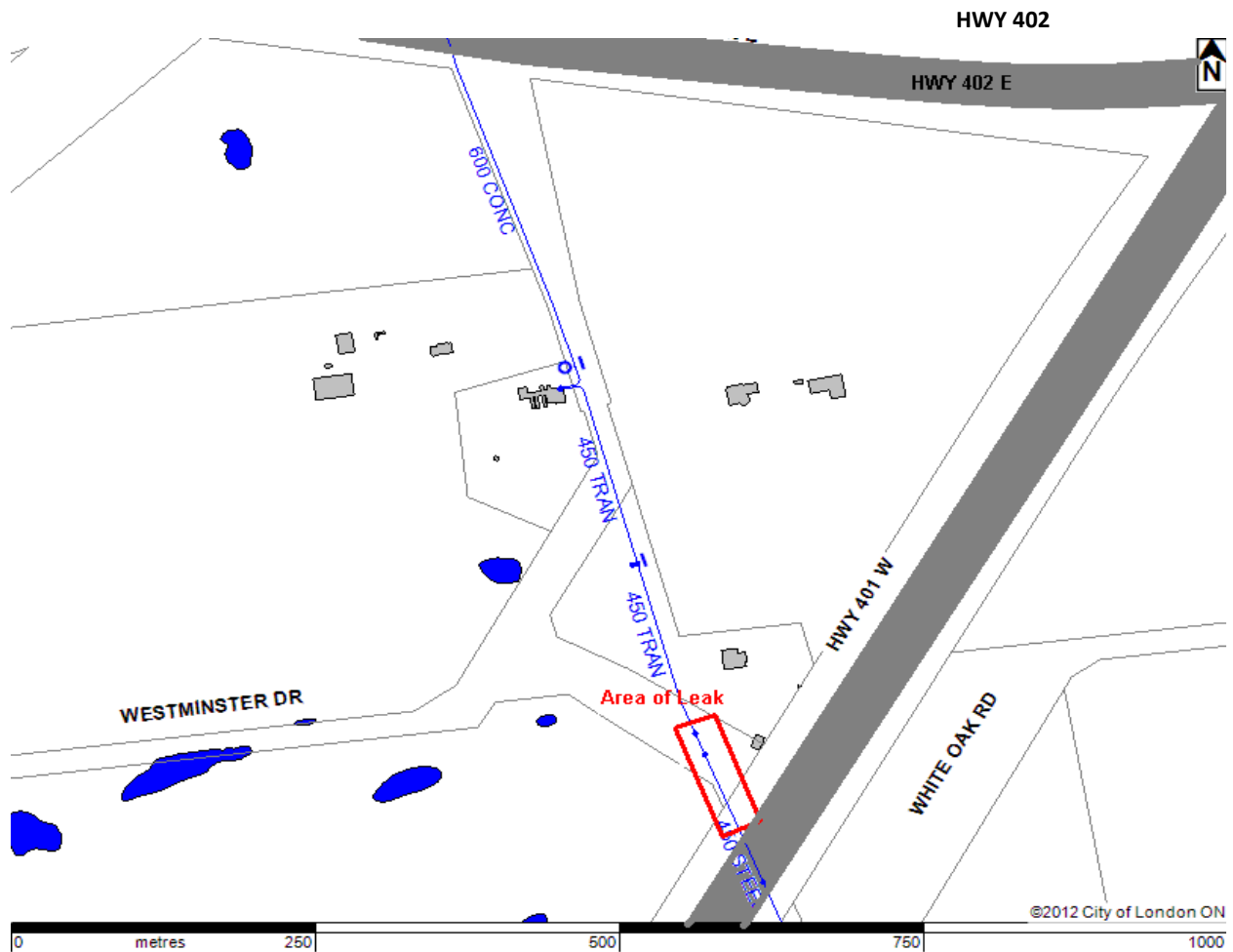
City Water staff have been undertaking innovative investigations of a few watermains in the City utilizing acoustic monitoring devices to assess the structural condition of the watermains and listen for leaks at the same time. Investigations were carried out on Dundas Street, King Street, Trowbridge Avenue and White Oak Road. The limited scope of investigation considered different pipe materials of difference ages and of different known condition as an initial pilot to determine the effectiveness of this very cost-effective, non-intrusive technology.

At the time of writing this report, the formal report from the inspection company, Echologics from Toronto, was not available; but they verbally identified that they had identified a significant leak at the north end of the 450 mm diameter pipe which crosses under Highway 401 at White Oak Road/Westminster Drive. The source and exact location of the leak has not been confirmed and additional exploratory work is required to assess the location of the leak and determine the most appropriate repair method.

We have requested quotations from Ferpal Contracting to line this section of the pipe, across the full width of the intersecting roadways. Ferpal are currently undertaking the annual structural lining program elsewhere in the City. It is anticipated that the repair cost will be better quantified at the time of the Committee meeting on May 14, 2012.

A previously budgetted project (EW3626) was established to address renewal or even replacement of this watermain as a result of water quality concerns in 2007. With the interest in development opportunities in the southeast corner of the City and the interest in industrial development particularly of the 401/402 triangle, it was decided to suspend this project until future needs could be better defined.

There will not be any additional annual operating costs as a result of this emergency repair.



Conclusions:

A recent condition assessment investigation on White Oak Road identified the watermain close to Highway 401 was leaking. Water Operations staff in conjunction with Water Engineering anticipate undertaking an emergency repair to ensure the integrity of the watermain and protect the highway from a potential failure.

Acknowledgements:

This report was prepared within the Water Service Area with input from Shaun Chen EIT, Water Engineering and Water Operations staff.

PREPARED BY:	RECOMMENDED BY:
ROLAND WELKER, P. ENG. DIVISION MANAGER WATER ENGINEERING	JOHN BRAAM, P.ENG. ACTING EXECUTIVE DIRECTOR, PLANNING, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER

May 9, 2012

RW/jb