

From: "Johnston, Sadhu" <Sadhu.Johnston@vancouver.ca>

To: "Direct to Mayor and Council - DL"

CC: "City Manager's Correspondence Group - DL"
"Nelms, Cheryl" <Cheryl.Nelms@vancouver.ca>

Date: 1/16/2020 4:52:40 PM

Subject: Memo - Metro Vancouver Shutdown of First Narrows Crossing Water Main

Attachments: Memo - Metro Vancouver Isolation Test January 2020.pdf

Dear Mayor and Council,

Please see the attached memo from Cheryl Nelms. A short summary of the memo is as follows:

- Metro Vancouver will be conducting maintenance work on their water main valves starting Monday January the 20th.
- The work is expected to be completed by the end of February.
- Water is normally received at the City from Metro from 2 locations: First Narrows and Second Narrows. During the work, First Narrows will periodically be shut down and the City will be supplied solely from Second Narrows.
- Metro does not foresee any major issues with water distribution.

If you have any questions, please feel free to contact Cheryl Nelms, Acting General Manager, Engineering at 604-873-7348 or cheryl.nelms@vancouver.ca.

Best,
Sadhu

Sadhu Aufochs Johnston | City Manager
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Pronouns: he, him, his



The City of Vancouver acknowledges that it is situated on the unceded traditional territories of the Musqueam, Squamish, and Tsleil-Waututh peoples.

MEMORANDUM

January 16, 2020

TO: Mayor and Council

CC: Sadhu Johnston, City Manager
Paul Mochrie, Deputy City Manager
Lynda Graves, Administration Services Manager, City Manager's Office
Rena Kendall-Craden, Civic Engagement and Communications Director
Katrina Leckovic, City Clerk
Neil Monckton, Chief of Staff, Mayor's Office
Alvin Singh, Communications Director, Mayor's Office
Anita Zaenker, Chief of Staff, Mayor's Office
Margaret Wittgens, Acting Deputy General Manager, Engineering Services
Darrell Reid, Fire Chief and General Manager, VF&RS and Emergency Management
Malcolm Bromley, General Manager, Park Board

FROM: Cheryl Nelms
Acting General Manager, Engineering Services

SUBJECT: Metro Vancouver Shutdown of First Narrows Crossing Water Main

Metro Vancouver is planning a maintenance shutdown of the water main at the First Narrows crossing. This shutdown is planned to take place Monday January 20 at 5:00 am, and conclude at the end of February. The purpose of this shutdown is to replace two shutoff valves in support of the future construction of a water main that will take place in the next few years. The City is working closely with Metro Vancouver during this time to ensure Vancouver residents continue to receive good service. Metro Vancouver has provided a detailed issues brief describing the purpose of the isolation test (Appendix A). Metro Vancouver does not anticipate any impact to water supply or quality during the test.

Please contact me directly if you require any further information.



Cheryl Nelms, P.Eng., PhD
Acting General Manager, Engineering Services

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First Narrows Crossing North Shaft Isolation Valve Chamber Maintenance

Upcoming Work in January, February 2020

BACKGROUNDER

January 6, 2020

Metro Vancouver has started planned asset renewal in the First Narrows Crossing north valve chamber.

The First Narrows Crossing, located just east of the Lions Gate Bridge, is one of three major supply corridors connecting Metro Vancouver's source water reservoirs to the communities within the region. The north valve chamber contains underground infrastructure that controls the flow of water through this crossing and some of the equipment in the chamber has reached the end of its useful lifespan and must be replaced.

To ensure crew safety and to accommodate equipment installation without impact to water delivery, work is taking place during sequential winter seasons when regional water demand is lowest. The first phase of maintenance was completed in early 2019, and the second phase will be scheduled in early 2020 and again in the next low demand season (late 2020/early 2021).

For certain portions of the work, Metro Vancouver will need to temporarily stop the flow of water through the First Narrows Crossing. Two separate two-week isolations of the First Narrow Crossing will be scheduled between January 20, 2020 and the end of February 2020. During these isolation periods, water supply will be maintained through an alternate route in Metro Vancouver's transmission system, and no noticeable effects on water pressure or quality are expected.

In 2019, Metro Vancouver, member jurisdictions and agencies successfully conducted a First Narrows Crossing isolation test which confirmed reliable water delivery without noticeable impacts to water pressure or quality during isolation of the crossing.

The asset renewal work is being done in close collaboration between Metro Vancouver, City of Vancouver, University Endowment Lands, District of West Vancouver, District of North Vancouver, Squamish Nation and Vancouver Coastal Health. Potential risks have been minimized and mitigation measures are in place.

Contact information:

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