

**From:** **"Mochrie, Paul" <Paul.Mochrie@vancouver.ca>**

**To:** **"Direct to Mayor and Council - DL"**

**Date:** 7/18/2023 5:00:04 PM

**Subject:** Memo - Metro Vancouver Water Main Project – Stanley Park Water Supply Tunnel Capilano

**Attachments:** Memo – Metro Vancouver Water Main Project – Stanley Park Water Supply Tunnel Capilano Water Main.pdf

---

Dear Mayor and Council,

Please see the attached memo from Lon LaClaire providing information on the Metro Vancouver Water Main Project, Stanley Park Water Supply Tunnel, Capilano No. 5 Water Main (CA5):

- Metro Vancouver plans on constructing a 1.4 km long water supply tunnel and water main (Capilano No. 5) under Stanley Park to meet growing demand for drinking water and increase seismic resilience of the water system.
- The new water main will replace an existing water main built in the 1930s, (Capilano No. 4) which has had a number of major leaks in 2016 and 2023 and has reached the end of its service life.
- The project is nearing the end of the detailed design phase and construction is expected to begin in late 2024 with a 5 year construction duration.
- Metro Vancouver requires the consent of the Park Board and the City to construct the new water main in Stanley Park.
- Land use agreements, rights-of-way and other associated agreements are being brought forward to the Park Board and City Council for consideration.

If you have any questions, please feel free to contact Lon LaClaire at 604-873-7336 or [lon.laclaire@vancouver.ca](mailto:lon.laclaire@vancouver.ca).

Best,  
Paul

**Paul Mochrie (he/him)**  
City Manager  
City of Vancouver  
[paul.mochrie@vancouver.ca](mailto:paul.mochrie@vancouver.ca)



The City of Vancouver acknowledges that it is situated on the unceded traditional territories of the xʷməθkʷəy̓əm (Musqueam), Skwxwú7mesh (Squamish), and səlilwətał (Tsleil-Waututh) Nations.

## MEMORANDUM

July 18, 2023

TO: Mayor and Council

CC: Paul Mochrie, City Manager  
Armin Amrolia, Deputy City Manager  
Karen Levitt, Deputy City Manager  
Maria Pontikis, Chief Communications Officer, CEC  
Rosemary Hagiwara, Acting City Clerk  
Teresa Jong, Administration Services Manager, City Manager's Office  
Mellisa Morphy, Director of Policy, Mayor's Office  
Trevor Ford, Interim Chief of Staff, Mayor's Office

FROM: Lon LaClaire  
General Manager, Engineering Services

SUBJECT: Metro Vancouver Water Main Project – Stanley Park Water Supply Tunnel  
Capilano No. 5 Water Main

RTS #: N/A

---

The purpose of this memo is to provide Council background on an upcoming Metro Vancouver Water Main Project that will be constructed through Stanley Park and requests to Park Board and Council on this project.

The City of Vancouver purchases treated drinking water from Metro Vancouver, through the Greater Vancouver Water District (GVWD). GVWD is responsible for managing drinking water reservoirs and watersheds, water treatment and transmission of treated drinking water to member jurisdictions. Vancouver owns, operates and maintains the infrastructure to distribute water to residents, businesses and customers within the City to support drinking water needs and fire protection.

To meet growing demand for drinking water across the region and increase seismic resilience of the water system, the GVWD plans on constructing a 1.4 km long water supply tunnel, which will be 30 to 50 m under Stanley Park, for a 2.6 m diameter water main, to be called Capilano No. 5 Water Main (CA5). The new water main will replace an existing water main built in the 1930s, known as Capilano No. 4 Water Main (CA4), which has had a number of major leaks in 2016 and 2023 impacting Stanley Park and has reached the end of its service life. In addition to

the water supply tunnel and water main, the project also includes two valve chambers that control the flow of water through the water main at key connection points.

To excavate the tunnel, install the water main, and build the valve chambers of CA5, GVWD's contractor will construct three vertical tunnels or shafts in Stanley Park, which will be known as the Burrard Inlet Shaft Site, the Centre Shaft Site (main construction site), and the Chilco Street Shaft Site (Appendix A). All three shaft construction sites will be restored at the conclusion of the project with the valve chambers having permanent surface level encumbrances in Stanley Park to provide access to the water main for maintenance and operation.

In order to facilitate the project within Stanley Park and the City of Vancouver, GVWD's project team has been working closely with Vancouver Park Board and Vancouver Engineering staff, and has conducted engagement with First Nations, residents and businesses that may be impacted by construction. Coordination and engagement will continue through the construction phase, and Metro Vancouver's community liaison will be available to address any public questions or concerns.

The project is nearing the end of the detailed design phase and construction is expected to begin in late 2024 with a 5 year construction duration (see below).



GVWD recognizes the construction of this major drinking water infrastructure project may affect residents, business and parks users. As with all construction projects, a number of industry standard and project specific mitigation measures will be implanted by GVWD's contractor to manage potential project impacts.

GVWD requires the consent of the Park Board and the City to construct CA5 in Stanley Park and on City lands since the project is within land that is under the care and custody of the Park Board or owned by the City. Land use agreements, rights-of-way, compensation package and other associated agreements are being brought forward to the Park Board and City Council for consideration in relation to this project.

If you have any questions, please contact me directly.

Lon LaClaire, M.Eng., P.Eng.  
General Manager, Engineering Services

604.873.7336 | [lon.laclaire@vancouver.ca](mailto:lon.laclaire@vancouver.ca)

**APPENDIX A**



Stanley Park Water Supply Tunnel - Key Project Locations (Source: Metro Vancouver/GVWD)