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Date: 11/22/2018 5:35:58 PM

Subject: Memo - COV King Tides Preparations

Attachments: ENG - Streets - Memo to Mayor and Council - COV King Tides Update - Nov.....pdf

Dear Mayor and Council,

Please see attached a memo from Jerry Dobrovolny regarding this year's COV king tides preparations. A short summary of the memo is as follows:

- King tides are extreme high tide events that happen twice per and could dramatically increase the risk of flooding in Vancouver.
- The next king tide event is expected to occur on November 27 and 28, 2019.
- Engineering Services and Park Board staff are protecting and preparing neighbourhoods for potential flooding; sandbag berms will be utilized, as well as on-site condition monitoring.
- From November 19-23, City staff will create a sandbag berm along the lowest-lying areas near Locarno Beach; this berm will remain in place until February 2019, when the high tides are expected to recede.
- The Locarno Beach sandbag berm will not prevent the nearby park from flooding, but is designed to avoid flooding on and the closure of Marine Drive.

If you have any questions, please feel free to contact Taryn Scollard, Director of Streets, at 604.873.7789 or taryn.scollard@vancouver.ca.

Thank you,
Paul

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MEMORANDUM

November 21, 2018

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
Malcolm Bromley, General Manager, Park Board
Shauna Wilton, Deputy General Manager, Park Board
Taryn Scollard, Director of Streets

FROM: Jerry Dobrovolny, General Manager, Engineering Services

SUBJECT: COV Preparations for King Tides

The purpose of this memo is to inform Mayor and Council of the preparations being undertaken regarding this year's king tides.

King tides are extreme high tide events that happen twice per year, but are typically more dramatic in the winter. If there are heavy rains and high winds during the king tide phase, the risk of flooding increases.

Vancouver will see king tides this storm season on the following dates:

- November 27 - 28, 2018
- December 24 - 29, 2018
- January 21 - 26, 2019
- February 21, 2019

As in recent years and in anticipation of high tides throughout the winter, Engineering Services staff, in coordination with Park Board staff, have taken a proactive approach to protect and prepare neighbourhoods from potential flooding. Staff will monitor the weather and the impacts of rising water.

What's Happening

From November 19-23, City staff will create a sandbag berm along the lowest-lying areas near Locarno Beach. The berm is expected to remain in place until February, when the high tides should recede.

Engineering survey staff completed a detailed survey of spot elevations along Marine Drive from Tolmie Street to Discovery Street. This survey identified that it is not necessary to sandbag the

entire length (about 500 meters) from Tolmie to Discovery. The lowest-lying area is centered on the foot of Sasamat Street, and can be protected to 6.0 meters chart datum by sandbagging approximately 150 meters in the vicinity of Sasamat Street. We chose this target elevation to protect against the highest predicted tides of the year, plus a similar storm surge that we have experienced over the last few years.

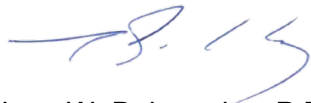
This sandbag berm will close off the end of Sasamat Street, but ample parking is available along Marine Drive for this time of year. The sidewalk will remain accessible with at least three feet of open width. A short berm will also be installed across the path entering the park at the intersection of Marine and Trimble.

It is important to note that this sandbagging plan will not protect the park from tidal flooding, but is designed to avoid flooding across Marine Drive and prevent the closure of Marine Drive.

Additional sandbags will be stockpiled on site as a precautionary measure in case berm repairs are required or surcharging catch basins must be temporarily plugged. During the high tides, Operations and Park Board staff will monitor conditions on-site and determine if any other responses (such as blocking catch basins or sandbagging around the Park Board concession stand) are necessary.

Should you require further information, please contact Taryn Scollard, Director of Streets, at 604.873.7789 or taryn.scollard@vancouver.ca.

Sincerely,



Jerry W. Dobrovolny, P.Eng., MBA
General Manager, Engineering Services

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