



Notes

1. For important limitations, please see *Hydraulic Modelling and Mapping in BC's Lower Mainland – Final Report* prepared for Fraser Basin Council by Northwest Hydraulic Consultants Ltd. (2019).
2. This map is intended to illustrate the potential extent and depth of coastal flooding across the Lower Mainland and is based on coastal flood levels developed in previous studies. It is not to be used for designating floodplains, establishing flood construction levels, designing dikes or other structures.
3. The map is based on a simplistic approach, extending the selected still-water ocean level (tide + storm surge) horizontally across coastal lands until higher ground levels are reached. Localized wind and wave effects, uplift and subsidence were not considered. The absence of diking was assumed. No coastal modelling was carried out. Where previous detailed mapping is available, it should be given priority for use.
4. The Digital Elevation Model was based on 2016 Lidar acquired by EMBC, 2012 Lidar acquired by Lions Bay and Squamish DEM data developed by the District of Squamish and Natural Resources Canada (year unknown).
5. Flood depths do not include a freeboard allowance.
6. NHC's **Disclaimer**, see *Hydraulic Modelling and Mapping in BC's Lower Mainland – Final Report* (2019), also applies to this map.



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SCALE - 1:90,000
0 2 4 KM

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Engineer ECW GIS MSN Reviewer MCM

Job Number 3003429 Date 21-MAY-2019

LOWER FRASER RIVER 2D FLOOD MODEL

COASTAL FLOOD SCENARIO MAP
0.2% AEP COASTAL STORM SURGE
WITH 0 M SLR
MAXIMUM DEPTH

Depth (m)

0 - 0.1

most buildings are dry; underground infrastructure may be flooded

0.1 - 0.3

most buildings are dry; walking in moving water or driving is potentially dangerous; underground infrastructure may be flooded

0.3 - 0.5

most buildings are dry; walking in moving or still water or driving is dangerous; underground infrastructure may be flooded

0.5 - 1.0

water on ground floor; underground infrastructure flooded; electricity failed; vehicles are commonly carried off roadways

1.0 - 2.0

ground floor flooded; residents and workers evacuate

2.0 - 3.0

ground floor flooded; first floor covered by water; residents and workers evacuate

> 3.0

first floor and often higher levels covered by water; residents and workers evacuate

— First Nation Reserve Boundary

— Municipal Boundary

— River, Lake, Ocean or Other Waterbody

Basemap from Esri and Natural Resources Canada