To convert between IGLD85 datum and geodetic datum:

Water depths were calculated by subtracting a Digital Elevation Model (DEM) of the land surface from the specified water surface benchmark is located at the Toronto Harbour Gauge house at the south side of Queen's Quay.

On Ontario Adjusted Version (CGVD 1928:1978), and 49.6 cm below Canadian Geodetic Vertical Datum 2013 (CGVD 2013) at the reported in International Great Lakes Datum 1985 (IGLD85), which is 8.4 cm below Canadian Geodetic Vertical Datum 1928-1978.

Water depths at Toronto Islands are based from the specified Lake Ontario water level indicated on this map. Water levels are obtained from Bathymetry Circular 2007 of the National Hydrographic Office, National Research Council Canada, and are in Canadian Geodetic Vertical Datum 2013.
Notes:
Water levels in Toronto Islands are based on the specified Lake Ontario water level and are shown for the specified Lake Ontario water level in the flood depth map. Water levels were calculated by subtracting a Digital Elevation Model (DEM) of the land surface from the specified water level. The lower water level at the specified Lake Ontario water level indicates the depth of the Toronto Islands flood depth map. The flood depth map was produced by W.F. Baird & Associates Coastal Engineers Ltd. and prepared by the Toronto and Region Conservation Authority.
Water depths at Toronto Islands are based on the specified water surface and flood depth on the map. These values are converted from IGLD85 datum to Geodetic Vertical Datum (GVD) 1928-1978. The reported data is presented in International Great Lakes Datum 1985 (IGLD85), which is 8.4 cm below Canadian Geodetic Vertical Datum 1928-1978.

The water depth at Toronto Islands is 76.1 m IGLD85.

Notes:
- Roads, ferry and property boundaries are based on City of Toronto data.
- Place names are approximate and may not be exact.
- User Community.

Data Sources:
- GeoEye, Earthstar Geographics, CNES/ Airbus DS, USDA, USGS, AE5, Getmapping, AeroGRID, IGN, IGNP, SwissTopo, and the GIS Imagery.

Prepared for:
- W. F. Baird & Associates Coastal Engineering, Ltd.
- Toronto and Region Conservation Authority

Map Publication Date: April 2019

Water depths at Toronto Islands are based on the specified water surface and flood depth on the map. These values are converted from IGLD85 datum to Geodetic Vertical Datum (GVD) 1928-1978. The reported data is presented in International Great Lakes Datum 1985 (IGLD85), which is 8.4 cm below Canadian Geodetic Vertical Datum 1928-1978.

The water depth at Toronto Islands is 76.1 m IGLD85.

Notes:
- Roads, ferry and property boundaries are based on City of Toronto data.
- Place names are approximate and may not be exact.
- User Community.

Data Sources:
- GeoEye, Earthstar Geographics, CNES/ Airbus DS, USDA, USGS, AE5, Getmapping, AeroGRID, IGN, IGNP, SwissTopo, and the GIS Imagery.

Prepared for:
- W. F. Baird & Associates Coastal Engineering, Ltd.
- Toronto and Region Conservation Authority

Map Publication Date: April 2019

Water depths at Toronto Islands are based on the specified water surface and flood depth on the map. These values are converted from IGLD85 datum to Geodetic Vertical Datum (GVD) 1928-1978. The reported data is presented in International Great Lakes Datum 1985 (IGLD85), which is 8.4 cm below Canadian Geodetic Vertical Datum 1928-1978.

The water depth at Toronto Islands is 76.1 m IGLD85.

Notes:
- Roads, ferry and property boundaries are based on City of Toronto data.
- Place names are approximate and may not be exact.
- User Community.

Data Sources:
- GeoEye, Earthstar Geographics, CNES/ Airbus DS, USDA, USGS, AE5, Getmapping, AeroGRID, IGN, IGNP, SwissTopo, and the GIS Imagery.

Prepared for:
- W. F. Baird & Associates Coastal Engineering, Ltd.
- Toronto and Region Conservation Authority

Map Publication Date: April 2019
Water Level = 76.2 m IGLD85

Flood Depth Map

Tile 1: Toronto City Airport

Boostrap Layers
- Community Assembly Hall
- Fire Station
- Restaurant
- Restaurant
- School
- Water Treatment Plant
- Yacht Club
- Brewery
- Sewer Pump Station
- Sewer Manholes
- Sewer Lines - Forced Main
- Sewer Lines - Gravity Line
- Federation Trail/Bellevue
- Flood Path (in m)
- Flood (in m)

Road Flood Depth (in)
- Dry
- 0.01 - 0.3
- 0.01 - 0.6
- >0.6

Flood Depth (m)
- 0.01 - 0.3
- 0.01 - 0.6
- >0.6

Other Data Layers:
- Roads, ferry and property boundary based on City of Toronto Open Data Catalog. Place names are based on the Toronto and Region Conservation Authority. Topographic data from Fisheries and Oceans Canada at: Current water levels for Toronto Harbour are available

IGL D85 = CGVD (2013) + 0.496 m
IGL D85 = CGVD (1928:1978) + 0.084 m
vertical datum to IGLD85 datum by adding 8.4 cm. Mass point data used to create the DEM is +/− 0.10 m at 95% confidence level. The DEM was adjusted from CGVD 1928:1978 elevation. The DEM was created from Lidar data flown in April 2014 and April 2015. The vertical accuracy tolerance of the Ontario Adjusted Version (CGVD 1928:1978), and 49.6 cm below Canadian Geodetic Vertical Datum 2013 (CGVD 2013) at the

1 cm = 25 m

0.01 - 0.3
0.01 - 0.6

1 - Toronto
1 - Toronto

Country
- Universal Transverse Mercator, Zone 19N, NAD83 (1967 network, and the USG

Other Data Layers:
- Roads, ferry and property boundaries based on City of Toronto Map Collection. Place names are based on the Toronto and Region Conservation Authority. Topographic data from Fisheries and Oceans Canada at: Current water levels for Toronto Harbour are available

IGL D85 = CGVD (2013) + 0.496 m
IGL D85 = CGVD (1928:1978) + 0.084 m
vertical datum to IGLD85 datum by adding 8.4 cm. Mass point data used to create the DEM is +/− 0.10 m at 95% confidence level. The DEM was adjusted from CGVD 1928:1978 elevation. The DEM was created from Lidar data flown in April 2014 and April 2015. The vertical accuracy tolerance of the Ontario Adjusted Version (CGVD 1928:1978), and 49.6 cm below Canadian Geodetic Vertical Datum 2013 (CGVD 2013) at the
Current water levels for Toronto Harbour are available in the International Great Lakes Datum 1985 (IGLD85) = Canadian Geodetic Vertical Datum (CGVD 1928-1978) + 0.084 m. Water depths were calculated by subtracting a Digital Elevation Model (DEM) of the landsurface from the specified water surface elevation at the reported in the International Great Lakes Datum 1985 (IGLD85), which is 8.4 cm below Canadian Geodetic Vertical Datum 1928-1978.

W.F. Baird & Associates Coastal Engineers, Ltd. and Baird Conservation Authority are not responsible for any errors that may occur as a result of the use of this map.
Toronto Islands
Flood Depth Map

Water Level = 76.0 m IGLD85

Tile 2: Centre Island

Road Flood Depth (m)

- Dry
- 0.01 - 0.3
- 0.01 - 0.6
- > 0.6

Road Depth (m)

- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- 0.91 - 1
- > 1

Toronto Islands

Road Flood Depth

- Zone 17 N, North American Datum 1983
- Coordinate System: Universal Transverse Mercator

Other Data Layers:

- User Community
- Geosky, Earthstar Geographics, CNES/Albatross
- USDA, USGS, AEgis, Getmapping, Aerogrid
- IGN, IGNP, Swissstopo, and the GIS

Imagery:

- Google Earth

This map is provided without warranty of any kind, expressed or implied. The Toronto and Region Conservation Authority or Baird assume no liability arising from its use. The water levels shown are the specified Lake Ontario water levels indicated on this map. Water levels are from the specific water level elevation establishment (Lake Ontario Datum 1985 (IGLD85), Canadian Geodetic Vertical Datum 1928:1978, Canadian Geodetic Vertical Datum 2013, and Ontario Adjusted Version (CGVD1928:1978)).

Water depths at Toronto Islands are shown for the specified Lake Ontario water level indicated on this map. Water levels are from the specific water level elevation establishment (Lake Ontario Datum 1985 (IGLD85), Canadian Geodetic Vertical Datum 1928:1978, Canadian Geodetic Vertical Datum 2013, and Ontario Adjusted Version (CGVD1928:1978)).

Map Publication Date: April 2019

Prepared by:

W.F. Baird & Associates Coastal Engineers, Ltd.
Toronto and Region Conservation Authority

Prepared for:

Toronto and Region Conservation Authority

1 cm = 25 m Scale: 1:2,500

Copyright 2019

Road Flood Depth (m)

- 0.01 - 0.3
- 0.01 - 0.6
- > 0.6

Road Depth (m)

- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- 0.91 - 1
- > 1

Road Flood Depth

- Zone 17 N, North American Datum 1983
- Coordinate System: Universal Transverse Mercator
- Datum 1985, North American Datum 1983
Water Level = 75.4 m IGLD85

Tile 2: Gibraltar Point and Island Water Treatment Plant

Boatway Layers
- Community/Assembly Hall
- Fire Station
- Restaurant
- Restroom
- School
- Water Treatment Plant
- Yacht Club
- Marina
- Sewer Pumping Station
- Sewer Manholes
- Sewer Lines - Forcadalan
- Sewer Lines - Grassy Line
- Pedestrian Trail/Trailhead

Road Flood Depth (m)
- Dry
- 0.01 - 0.3
- 0.31 - 0.6
- >0.6

Road Depth (m)
- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- 0.91 - 1

Ferry Routes

Residential Property Boundary (2019)

Water depth at Toronto Islands are based on the digital elevation model (DEM) of the land surface. The DEM was created from LiDAR data flown in April 2014 and April 2015. The accuracy of the external elevation reference equip was ±10 cm. The water depth was calculated by subtracting a Digital Elevation Model (DEM) of the land surface at 49.6 cm below Canadian Geodetic Vertical Datum 2013 (CGVD2013) at the Island Park trailhead.

The flood depth is based on the IGLD85 datum at the Toronto Harbour Gauge House at the south side of Queen's Quay. Ontario Adjusted Version (CGVD1928:1978) and 49.6 cm below Canadian Geodetic Vertical Datum 2013 (CGVD2013) is at the Island Park Trailhead.

Water Level = 75.4 m IGLD85
Current water levels for Toronto Harbour are available. The DEM was created from LiDAR data flown in April 2014 and April 2015. The vertical accuracy tolerance of the DEM is ±0.5 m.

Notes:
Toronto Islands
Flood Depth Map

Water Level = 75.9 m IGLD85

Tile 2: Gibraltar Point and Island Water Treatment Plant

Map Publication Date: April 2019

Notes:

- Water depths at Toronto Islands are based on the Earth's ellipsoid, which is the shape of the Earth that is closest to the average of the Earth's gravitational field.
- Water depths at Toronto Islands are calculated using the IGLD85 datum, which is a reference surface for the Earth's gravitational field.
- Water depths at Toronto Islands are expressed in metres (m) and are relative to the mean sea level at Toronto Harbour.
- Water depths at Toronto Islands are based on the OpenStreetMap and Google Earth data.
- Water depths at Toronto Islands are based on the Canadian Geodetic Vertical Datum (CGVD) 1928-1978 and the Canadian Geodetic Vertical Datum (CGVD) 2013.
- Water depths at Toronto Islands are based on the Ontario Datum 1927 (OD1927) and the Toronto Datum 1952 (TD1952).
- Water depths at Toronto Islands are based on the National Geodetic Vertical Datum (NGVD) 1929 and the North American Datum (NAD) 1983.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2000.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2005.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2010.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2015.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2020.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2025.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2030.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2035.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2040.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2045.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2050.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2055.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2060.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2065.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2070.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2075.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2080.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2085.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2090.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2095.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2100.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2105.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2110.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2115.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2120.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2125.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2130.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2135.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2140.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2145.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2150.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2155.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2160.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2165.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2170.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2175.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2180.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2185.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2190.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2195.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2200.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2205.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2210.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2215.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2220.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2225.
- Water depths at Toronto Islands are based on the International Geopotential Reference Model (IGRF) 2230.
Current water levels for Toronto Harbour are available. The benchmark is located at the Toronto Harbour Gauge house at the south side of Queen’s Quay.

1 cm = 25 m

W. F. Baird & Associates Coastal Engineers, Ltd.

Other Data Layers:
- Roads, ferry and property boundary are based on City of Toronto Open Data Catalogue. Place names are based on User Community.
- Water depths at Toronto Islands

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Flood Depth Map

Toronto Islands

Water Level = 76.0 m IGLD88

Tile: Gibraltar Point and Island Water Treatment Plant

Road Flood Depth (m)

Boostrap Layer

- Community/Assembly Hall
- Fire Station
- Restaurant
- Restroom
- School
- Water Treatment Plant
- Yacht Club
- Harbour
- Sewer Pump Stations
- Sewer Manholes
- Sewer Lines - Forced Main
- Sewer Lines - Gravity Line
- Federation Trail/Blackwalk

Flood Depth (m)

- Dry
- 0.01 - 0.3
- 0.31 - 0.6
- 0.61 - 0.8
- 0.81 - 1

Ferry Routes

Residential Property Boundary (2016)
Toronto Islands Flood Depth Map

Water Level = 76.1 m IGLD85

Tile 3: Gibraltar Point and Island Water Treatment Plant

Basemap Layers

- Community/Assembly Hall
- Fire Station
- Restaurant
- Restroom
- School
- Water Treatment Plant
- Yacht Club
- Sunlit
- Sewer Pump
- Sewer Pump Station
- Sewer Manholes
- Sewer Lines - Forced Main
- Sewer Lines - Gravity Line
- Federation Trail/Bike Path
- Park Path (2m wide)
- Road (4m wide)
- Residential Property Boundary (2018)
- Ferry Routes

Road Flood Depth (m)

- Dry
- 0.01 - 0.3
- 0.01 - 0.6
- >0.6

Flood Depth (m)

- >0.6
- 0.31 - 0.6
- 0.11 - 0.2
- 0.21 - 0.3
- 0.41 - 0.5
- 0.51 - 0.6
- 0.41 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- 0.91 - 1
- >1

Other Data Layers:

- Roads, ferry and property boundary based on City of Toronto Open Data Catalogue. Place names are
- User Community.
- GeoEye, Earthstar Geographics, CSNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGNP, swisstopo, and the GIS Imagery:

Data Sources

- Water depth: Toronto Islands flood depth values are based on the specified water surface level. To convert to IGLD85 datum, add 8.4 cm. The vertical accuracy tolerance of water depths was calculated by subtracting a Digital Elevation Model (DEM) of the land surface from the specified water surface level, expressed or implied.
- Roads, ferry and property boundary are based on City of Toronto Open Data Catalogue. Place names are user community.
- Other Data Layers: Roads, ferry and property boundary are based on City of Toronto Open Data Catalogue. Place names are user community.

Scale: 1:2,000

1 cm = 20 m

City of Toronto Open Data Catalogue

Toronto Islands Flood Depth Map

Programmed by: W.T. Baird & Associates Coastal Engineers, Ltd.

Prepared for: Toronto and Region Conservation Authority

1 cm = 20 m

Scale: 1:2,000

Data Sources: IGLD85, UTM, Transverse Mercator

Datum H87, North American Datum of 1983
Current water levels for Toronto Harbour are available:

- **IGLD85 = CGVD (2013) + 0.496 m**
- **IGLD85 = CGVD (1928:1978) + 0.084 m**

The benchmark is located at the Toronto Harbour Gauge House at the south side of Queen's Quay.

The map is reported in International Great Lakes Datum 1985 (IGLD85), which is 8.4 cm below Canadian Geodetic Vertical Datum 1928-1978.

Road flood depth (m):
- **0.01 - 0.1**
- **0.11 - 0.2**
- **0.21 - 0.3**
- **0.31 - 0.4**
- **0.41 - 0.5**
- **0.51 - 0.6**
- **0.61 - 0.7**
- **0.71 - 0.8**
- **0.81 - 0.9**
- **0.91 - 1**

Notes:
- Based on Open Street Map and Google Earth.
- Roads, ferry and property boundary are based on City of Toronto's Open Data Catalogue. Place names are reported in City of Toronto and Region Conservation Authority's Ontario Place Names Database.

Other data layers:

Prepared for: Toronto and Region Conservation Authority.
Toronto Islands Flood Depth Map

Water Level = 76.0 m IGLD85

Tile 4: Royal Canadian Yacht Club and Centre Island Pier

Base Map Layers
- Community/Auditorium
- Fire Station
- Restaurant
- School
- Water Treatment Plant
- Yacht Club
- Sewer Pump
- Sewer Pump Stations
- Sewer Manholes
- Sewer Lines - Forced Main
- Sewer Lines - Gravity Line
- Federation Trail/Boardwalk
- Road (in m)
- Residential Property Boundary (2018)
- Ferry Routes

Road Flood Depth (m)
- Dry
- 0.01 - 0.3
- 0.01 - 0.6
- >0.6
- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- 0.91 - 1
- >1
- 0.01 - 0.3
- 0.01 - 0.6
- >0.6

Road Flood Depth (m)

- To the right:
- 0.01 - 0.3
- 0.01 - 0.6
- >0.6
- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- 0.91 - 1
- >1

- To the left:
- 0.01 - 0.3
- 0.01 - 0.6
- >0.6
- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- 0.91 - 1
- >1

Every reasonable effort has been made to ensure the accuracy of this map. However, neither Toronto nor Region Conservation Authority are responsible for the accuracy or completeness of this map. This map must not be reproduced, altered, or distributed without the express written consent of the Toronto and Region Conservation Authority.
Toronto Islands
Flood Depth Map

Water Level = 76.1 m IGLD85

Tile 4: Royal Canadian Yacht Club and Centre Island Pier

Road Flood Depth (m)
- Dry
- 0.01 - 0.3
- 0.1 - 0.6
- >0.6

Road Depth (m)
- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- >0.9

Ferry Routes
- 0.01 - 1

Map Publication Date: April 2019

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Water depths at Toronto Islands are shown for the specified Lake Ontario water level indicated on the map. Water levels are expressed as the difference between observed lake surface elevation and the Canadian Geodetic Vertical Datum (CGVD) 1928-1978. Flood depths are based on observed surface water level from Fisheries and Oceans Canada at:

IGLD85 = CGVD (2013) + 0.496 m
IGLD85 = CGVD (1928:1978) + 0.084 m

To convert between IGLD85 datum and geodetic datum:
Canadian Hydrographic Service benchmark 0011959 U9526 (also known as 0011959, 59U9526, TORO1-1959). The report is in International Great Lakes Datum 1985 (IGLD85), which is 8.4 cm below Canadian Geodetic Vertical Datum 1928-1978.

Prepared for:

W.F. Baird & Associates Coastal Engineers, Ltd.

Prepared By:

Toronto and Region Conservation Authority

Legend:

- Community Assembly Hall
- Fire Station
- Restaurant
- Restroom
- School
- Water Treatment Plant
- Yacht Club
- Spa
- Sewer Pump Station
- Sewer Manholes
- Sewer Lines - Forced Main
- Sewer Lines - Gravity Line
- Pedestrian Trail/Boardwalk
- Flooded Path (m in)
- Road (m in)
- Residential Property Boundary (2018)

Water depths at Toronto Islands are shown for the specified Lake Ontario water level indicated on the map. Water levels are expressed as the difference between observed lake surface elevation and the Canadian Geodetic Vertical Datum (CGVD) 1928-1978. Flood depths are based on observed surface water level from Fisheries and Oceans Canada at:

IGLD85 = CGVD (2013) + 0.496 m
IGLD85 = CGVD (1928:1978) + 0.084 m

To convert between IGLD85 datum and geodetic datum:
Canadian Hydrographic Service benchmark 0011959 U9526 (also known as 0011959, 59U9526, TORO1-1959). The report is in International Great Lakes Datum 1985 (IGLD85), which is 8.4 cm below Canadian Geodetic Vertical Datum 1928-1978.

Prepared for:

W.F. Baird & Associates Coastal Engineers, Ltd.

Prepared By:

Toronto and Region Conservation Authority

Legend:

- Community Assembly Hall
- Fire Station
- Restaurant
- Restroom
- School
- Water Treatment Plant
- Yacht Club
- Spa
- Sewer Pump Station
- Sewer Manholes
- Sewer Lines - Forced Main
- Sewer Lines - Gravity Line
- Pedestrian Trail/Boardwalk
- Flooded Path (m in)
- Road (m in)
- Residential Property Boundary (2018)
Toronto Islands
Flood Depth Map

Water Level = 76.2 m IGLD85

Tile 4: Royal Canadian Yacht Club and Centre Island Pier

Map Publication Date: April 2019

By: W.F. Baird & Associates Coastal Engineers, Ltd.

Notes:
1. Every reasonable effort has been made to ensure the accuracy of this map. However, neither Toronto and Region Conservation Authority nor any of its employees assume any liability arising from its use. This map is provided without warranty of any kind, either expressed or implied.
2. Water depths at Toronto Islands
   - 0.31 - 0.4
   - 0.41 - 0.5
   - 0.51 - 0.6
   - 0.61 - 0.7
   - 0.71 - 0.8
   - 0.81 - 0.9
   - >0.9
   - >1

Water depths are based on the specified datum. Depths were measured from the water surface to the ground surface. The accuracy of the water depth data is ±0.5 m.

MDEM is the Digital Elevation Model developed by the Ministry of Natural Resources and Forestry. The DEM was created from LiDAR data flown in April 2014 and April 2015. The vertical accuracy tolerance of the DEM was ±0.5 m. Water depths were calculated by subtracting a specified water surface (e.g., the road surface in the flood map) from the DEM.

Technical Note: The accuracy of this map is subject to the limitations of the data used. These limitations include the accuracy of the DEM, the accuracy of the LiDAR data, and the accuracy of the specified water surface. The accuracy of the water depth data is ±0.5 m.

To convert between IGLD85 datum and geodetic datum:
- Subtract 8.4 cm from the IGLD85 datum.

Map is provided on the condition that the recipient will not use the map for any purpose related to matters outside the public domain. The map is intended for public use and to be used for general information purposes only. The map is not intended for specific use in construction or other engineering projects. The map is not intended to be used for the location of pipelines or other underground utilities.

Proposed for Use: Toronto and Region Conservation Authority

Urban Data: OpenStreetMap and Google Earth, CNES/Airbus DS, USDA, USGS, Aerogrid, IGN, IGNP, SwissTopo, and the GIS User Community.

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Current water levels for Toronto Harbour are available

IGLD85 = CGVD (1928:1978) + 0.084 m

vertical datum to IGLD85 datum by adding 8.4 cm. On Ontario Adjusted Version (CGVD 1928:1978), and 49.6 cm below Canadian Geodetic Vertical Datum 2013 (CGVD 2013) at the reported in International Great Lakes Datum 1985 (IGLD85), which is 8.4 cm below Canadian Geodetic Vertical Datum 1928-1978datum.

Data Sources

- Notes: Data source information is included in the report as necessary. Additional information is available from the City of Toronto and other data providers.

2016

1 cm = 0 m

Scale: 1:2,500

Datum: NSRS 1983

Toronto Islands
Flood Depth Map

Water Level = 75.5 m IGLD85

Tile 5: Ward's Island and Algonquin Island

Road Flood Depth (m)

- Dry
- 0.01 - 0.3
- 0.31 - 0.6
- >0.6

Road Depth (m)

- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- >0.9

Residential Property Boundary (2016)

Ferry Routes

Boatshed Lanes
- Community/Assembly Hall
- Fire Station
- Restaurant
- Airport
- School
- Water Treatment Plant
- Yacht Club
- Sewer Pump
- Sewer Pump Station
- Sewer Manhole
- Sewer Lines - Fixed/Non
- Sewer Lines - Gravity Line
- Pedestrian Trail/Blockwalk
- Road (4 m tray)

Map prepared by: W.T. Baird & Associates Coastal Engineers, Ltd.
Prepared for: Toronto and Region Conservation Authority

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Current water levels for Toronto Harbour are available at [http://www.waterlevels.gc.ca](http://www.waterlevels.gc.ca). Vertical datum to IGLD85 datum by adding 8.4 cm. Water depths were calculated by subtracting a Digital Elevation Model (DEM) of the land surface from the specified water surface.

Map Publication Date: April 2019

Roads, ferry and property boundary are based on City of Toronto's Open Data Catalogue. Place names are not complete.

Other Data Layers:
- Flood Depth Map
- Water depths at Toronto Islands
- Water depths at Toronto Harbour
- Flood Depth Map - Toronto Island
- Flood Depth Map - Centre Island
- Flood Depth Map - Ward's Island
- Flood Depth Map - Algonquin Island
- Flood Depth Map - Toronto Islands

Note: Flood depths are expressed or implied.
Toronto Islands
Flood Depth Map

Water Level = 75.8 m IGLD85

Tile 5: Ward's Island and Algonquin Island

Flood Depth Map

Road Flood Depth (m)

Dry
0.01 - 0.3
0.31 - 0.6
>0.6

Road Depth (m)

0.01 - 0.1
0.11 - 0.2
0.21 - 0.3
0.31 - 0.4
0.41 - 0.5
0.51 - 0.6
0.61 - 0.7
0.71 - 0.8
0.81 - 0.9
0.91 - 1

Prepared by:
W.F. Baird & Associates Coastal Engineers, Ltd.

Prepared for:
Toronto and Region Conservation Authority

1 cm = 25 m
Scale: 1:2,500

Flood Map Legend

- Community/Assembly Hall
- Fire Station
- Recreation
- School
- Water Treatment Plant
- Yacht Club
- Sewer Pump
- Sewer Pump Stations
- Sewer Manholes
- Sewer Lines - Force Main
- Sewer Lines - Gravity Line
- Pedestrian Trail/Stairway
- Road (m in rate)
- Residential Property Boundary (2019)

Boat Routes

Note: This map should be used for information purposes only and is not intended to be used for legal purposes. The information on this map is based on the best available data and is subject to change. The map is not updated regularly and may not reflect the most current information. The map is not intended to be used for flood risk assessment or planning purposes. The map is not guaranteed to be accurate and should not be used for navigation or other purposes. The map is provided "as is" and without any warranty of any kind, whether express or implied. The map is not endorsed by the City of Toronto or the Toronto and Region Conservation Authority.
Flood Depth Map

Water Level = 75.9 m IGLD85

Tile 5: Ward's Island and Algonquin Island

Boatmap Layers:
- Community/Assembly Hall
- Fire Station
- Restroom
- School
- Water Treatment Plant
- Yacht Club
- Sewer Pump
- Sewer Manhole
- Sewer Lanes - Grassy Line
- Sewer Lanes - Fenced Line
- Pedestrian Trail/Boardwalk
- Pedestrian Property Boundary (2016)
- Road (4 m Gray)
- Road (1 m Gray)

Road Flood Depth (m):
- Dry
- 0.01 - 0.3
- 0.31 - 0.6
- >0.6

Flood Depth (m):
- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 1
- >1

Water depths at Toronto Islands are subject to the accuracy of their own local data, and are intended to be indicative only. These data were used as a reference for the flood depth calculations and are not intended to be used for navigation or engineering purposes. The flood depth data at Toronto Islands is part of the Toronto Metropolitan Region flood risk assessment. The flood depth data is based on the flood depth maps created by the City of Toronto and is intended to be used for planning and emergency management purposes only. The flood depth data at Toronto Islands is part of the Toronto Metropolitan Region flood risk assessment. The flood depth data is based on the flood depth maps created by the City of Toronto and is intended to be used for planning and emergency management purposes only.
Water Level = 76.0 m IGLD85

Toronto Islands Flood Depth Map

Tile 5: Ward’s Island and Algonquin Island

Water depths were calculated by subtracting a Digital Elevation Model (DEM) of the land surface from the specified water surface. Current water levels for Toronto Harbour are available from the Toronto and Region Conservation Authority.

Notes:
- The flood depth map is based on the water level at the specified date.
- The map is provided for information purposes only.
- The map is not intended for navigation or for use as a legal document.

Scaled to 1 m = 25 m

1:2,000

Prepared for: Toronto and Region Conservation Authority

Toronto Islands
Flood Depth Map

Water Level = 76.1 m IGLD85
Tile 5: Ward's Island and Algonquin Island

Legend:
- Community/Assembly Hall
- Fire Station
- Restaurant
- School
- Water Treatment Plant
- Yacht Club
- Sewer Pump
- Sewer Manholes
- Sewer Lines - Force Main
- Sewer Lines - Gravity Line
- Federal Traverse

Road Flood Depth (m):
- Dry
- 0.01 - 0.3
- 0.31 - 0.6
- >0.6

Road Depth (m):
- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.6
- 0.61 - 0.8
- 0.81 - 0.9
- >0.9

Other Data Layers:
- Open Street Map
- Google Earth

Map source: City of Toronto, Waterfront

Prepared by:
Baird & Associates Coastal Engineers, Ltd.

Prepared for:
Toronto and Region Conservation Authority

Scale: 1:2,500

Note: Flood depths on this map are based on data collected by the City of Toronto. They are not intended to be used for emergency planning or land use decisions.
The image contains a colored map with various landmarks and annotations. The map includes symbols for different types of locations and routes, such as parks, ferry routes, and other points of interest. The map is likely related to flood depth mapping in the Toronto Islands area, with a focus on water levels and potential flood areas.

The map is labeled as a Flood Depth Map with a water level of 76.2 m IGLD85. It includes a legend indicating different depth ranges, with specific areas highlighted in various colors representing different flood depths. The map is created by Baird & Associates Coastal Engineers, Ltd., and is intended for use by Toronto and Region Conservation Authority.

Additional notes and data layers are indicated, such as user community, ESRI basemap imagery, and other data sources. The map provides a visual representation of the flood risk and depth predictions for the area.