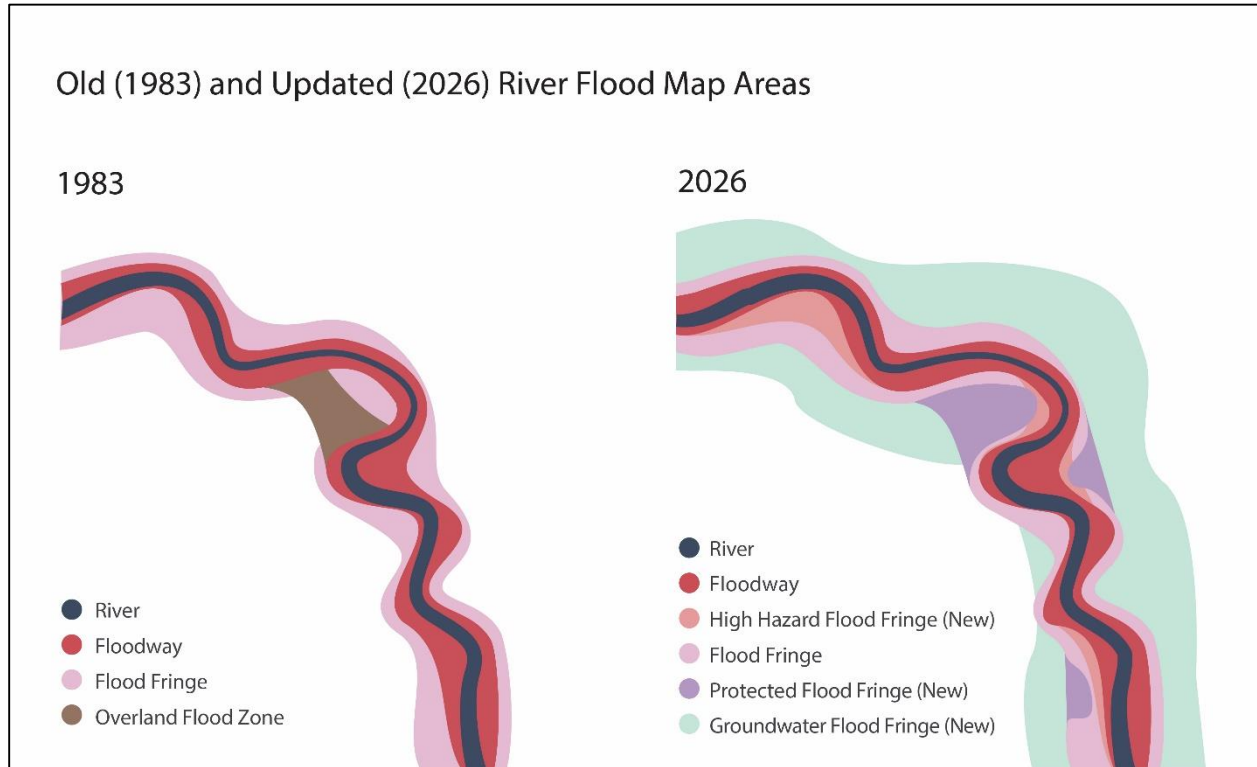


Summary of Changes to River Flood Areas

This attachment describes the proposed changes to Calgary's River Flood Map, and provides the definition for each area, what has changed between the old (1983) mapping and new (2026) mapping, and number of buildings within each hazard area.



River Flood Area (1:100)	1983 (Current) Flood Hazard Mapping	2026 River Flood Mapping
Floodway	<p>Definition: Provides the pathway for flood waters, generally characterized by:</p> <ul style="list-style-type: none"> o ≥ 1 m depth, and o ≥ 1 m/s velocity <p># Buildings: 71</p>	<p>Definition: The river channel and adjoining lands where the water is deepest and fastest, generally characterized by:</p> <ul style="list-style-type: none"> o ≥ 1 m depth, and o ≥ 1 m/s velocity <p>This is the highest- risk flood area and is generally unsuitable for development.</p> <p>Change: Effectively the same as 1983 mapping with slight differences, predominantly along the Elbow River reflecting the completion of the Springbank Reservoir.</p> <p># Buildings: 8</p>

<p>High Hazard Flood Fringe (HHFF)</p>	<p>Not included.</p>	<p>Definition: Areas within the flood fringe with deeper or faster moving water than the rest of the flood fringe, generally characterized by</p> <ul style="list-style-type: none"> • ≥ 1 m depth, and/or • ≥ 1 m velocity <p>Change: A new flood hazard area representing the second highest level of flood risk, characterized by deep and fastmoving floodwaters similar to the Floodway. HHFF areas were previously portions of the Flood Fringe. The HHFF area was introduced to identify significant flood risk in established communities without expanding the Floodway, allowing the Development Authority to apply community-appropriate regulations while maintaining public safety. In Calgary, the HHFF is identified primarily in Bowness, and to a lesser extent in Bridgeland and some industrial and park lands along the Bow River. # Buildings: 282</p>
<p>Flood Fringe</p>	<p>Definition: Typically, shallower and flows more slowly than in the floodway. # Buildings: 5195</p>	<p>Definition: Typically, shallower and flows more slowly than in the floodway Change: Boundaries have changed and area is reduced citywide due to reduced risk along the Elbow River and inclusion of Protected Flood Fringe. Building and development are permitted, subject to design requirements that reduce the risk of flood damage and risk to life safety. # Buildings: 337</p>
<p>Overland Flow</p>	<p>Definition: Areas that would be inundated by shallow overland floodwater. # Buildings: 879</p>	<p>Not included.</p>
<p>Protected Flood Fringe</p>	<p>Not included.</p>	<p>Definition: Areas where a flood barrier mitigates overland river flood risk to at least the 1:100 flood level, and that could be flooded if dedicated flood berms fail or during a flood larger than the barrier was designed for. Change: New area introduced by provincial mapping; buildings in this area previously in the Flood Fringe or Overland Flow. # Buildings: 1592</p>

Groundwater Flood Fringe	Not included.	Definition: Areas adjacent to a river or watercourse that are impacted by high groundwater during a 1:100 flood Change: New city-defined area. Some areas previously within higher risk flood hazard areas on the Elbow River (e.g. previous Floodway, Flood Fringe or Overland Flood Area), and others newly within this area. # Buildings: 8120 (<i>1500 of this total previously within Flood Fringe or Overland Flow Areas</i>)
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