## SOURCES OF DATA FOR THE HAWKESBURY-NEPEAN VALLEY INTERACTIVE FLOOD MAPPING TOOL

### JUNE 2020

<table>
<thead>
<tr>
<th>Area</th>
<th>Flood chance / size</th>
<th>Wallacia floodplain</th>
<th>Penrith/Emu Plains floodplain</th>
<th>Richmond/Windsor floodplain</th>
<th>South Creek Catchment floodplain</th>
<th>Eastern Creek Catchment floodplain</th>
<th>Lower Hawkesbury floodplain</th>
</tr>
</thead>
</table>
| **Wallacia** floodplain | Very high chance (small flood)  
(1 in 5 chance per year) | Very high chance (small flood)  
(1 in 5 chance per year) | Very high chance (small flood)  
(1 in 5 chance per year) | Very high chance (small flood)  
(1 in 5 chance per year) | Very high chance (small flood)  
(1 in 5 chance per year) | Very high chance (small flood)  
(1 in 5 chance per year) | Very high chance (small flood)  
(1 in 5 chance per year) |
|                | High chance  
(large flood)  
(1 in 20 chance per year) | High chance  
(large flood)  
(1 in 20 chance per year) | High chance  
(large flood)  
(1 in 20 chance per year) | High chance  
(large flood)  
(1 in 20 chance per year) | High chance  
(large flood)  
(1 in 20 chance per year) | High chance  
(large flood)  
(1 in 20 chance per year) | High chance  
(large flood)  
(1 in 20 chance per year) |
|                | Medium chance  
(very large flood)  
(1 in 100 chance per year) | Medium chance  
(very large flood)  
(1 in 100 chance per year) | Medium chance  
(very large flood)  
(1 in 100 chance per year) | Medium chance  
(very large flood)  
(1 in 100 chance per year) | Medium chance  
(very large flood)  
(1 in 100 chance per year) | Medium chance  
(very large flood)  
(1 in 100 chance per year) | Medium chance  
(very large flood)  
(1 in 100 chance per year) |
|                | Low chance  
(huge flood)  
(1 in 500 chance per year) | Low chance  
(huge flood)  
(1 in 500 chance per year) | Low chance  
(huge flood)  
(1 in 500 chance per year) | Low chance  
(huge flood)  
(1 in 500 chance per year) | Low chance  
(huge flood)  
(1 in 500 chance per year) | Low chance  
(huge flood)  
(1 in 500 chance per year) | Low chance  
(huge flood)  
(1 in 500 chance per year) |
|                | Extremely low chance  
(probable maximum flood) | Extremely low chance  
(probable maximum flood) | Extremely low chance  
(probable maximum flood) | Extremely low chance  
(probable maximum flood) | Extremely low chance  
(probable maximum flood) | Extremely low chance  
(probable maximum flood) | Extremely low chance  
(probable maximum flood) |

**Areas:**
- **Wallacia** floodplain: Nepean River between Bents Basin and Warragamba River junction
- **Penrith/Emu Plains** floodplain: Nepean River between Glenbrook Creek and Yarramundi Bridge
- **Richmond/Windsor** floodplain: Nepean River between Glenbrook Creek and Yarramundi Bridge
- **South Creek Catchment** floodplain: South Creek local catchment flooding for this flood likelihood
- **Eastern Creek Catchment** floodplain: South Creek local catchment flooding for this flood likelihood
- **Lower Hawkesbury floodplain:**

**Notes:**
1. Flood chance: Very high, high, medium, low, extremely low
2. Flood size: Small, large, very large, huge, probable maximum

**LiDAR Dated:**
- 2011 downstream of Wisemans Ferry
- 2017
Notes:
1 Displayed flood information for any areas not explicitly described in the table is derived from the Hawkesbury-Nepean Valley Regional Flood Study (2019).
2 Flooding at Wallacia is complex due to the joint probability of flooding from the Nepean and Warragamba Rivers. Following the recommendation of the Hawkesbury-Nepean Valley Regional Flood Study (2019), until further investigations are undertaken, the mapping presented here is based on the higher flood levels from either the Upper Nepean River Flood Study (1995) or the Regional Flood Study, where information for the same event is available from both studies.
3 For Penrith Lakes, no flood information is presented for this flood likelihood.
4 For Penrith Lakes, only a flood extent is presented for this flood likelihood, derived from the Nepean River Flood Study (2018).
5 Flood extents upstream of Elizabeth Drive are not presented.
6 The boundary between Hawkesbury River backwater flooding and local catchment flooding varies with flood likelihood – being further up South and Eastern creeks with rarer, larger Hawkesbury River floods.

References:

All this flood information is used with permission.