

**Brisbane City Council - Flood Commission of Inquiry**  
**Terms Relevant to Hydraulic Engineering**

***Annual Exceedance Probability (AEP)***

The chance of a flood of a given size being equalled or exceeded in any one year, usually expressed as a percentage. For example, if a specified peak flood discharge has an AEP of 1%, this means that there is a 1% chance (i.e. a 1 in 100 chance) of that peak discharge being equalled or exceeded in any one year.

***Average Recurrence Interval (ARI)***

The long-term (over several thousand years), average number of years between the occurrence of a flood as big as (or larger than) the selected event. For example, floods with a discharge as great as (or greater than) the 100 year ARI design flood will occur on average once every 100 years. ARI is another way of expressing the likelihood of occurrence of a flood event.

***Defined Flood Event (DFE)***

The flood event adopted for the management of development on the Brisbane River floodplain. State Planning Policy 1/03 states that the 1% Annual Exceedance Probability (AEP) flood equivalent to 100 year Average Recurrence Interval (ARI) is the Queensland Government's position on what is an appropriate flood event for the DFE. For the Brisbane River, Council has adopted a DFE greater than the current estimate of the 100 year ARI flood. This was most recently confirmed by Council in 2003.

***Defined Flood Level (DFL)***

The flood level associated with the Defined Flood Event.

***Q100***

This term is used interchangeably with 100 year ARI flood, 100 year flood, 1% AEP flood or 1 in 100 year flood.

***Temporary Local Planning Instrument 01/11 - Brisbane Interim Flood Response (TLPI)***

The TLPI is a statutory instrument made by Brisbane City Council and approved by the Minister under the *Sustainable Planning Act 2009*. TLPI 01/11 adopts an interim residential flood level (IRFL) for City Plan 2000 as the basis for development assessment, which is described as the higher of:

- the Brisbane River - January 2011 Event; or

**QFCI**

Date:

26 | 10 | 11

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886

- the DFL based on the Brisbane River flood event using a flood height profile of 3.7 metres AHD at the Brisbane City Gauge.