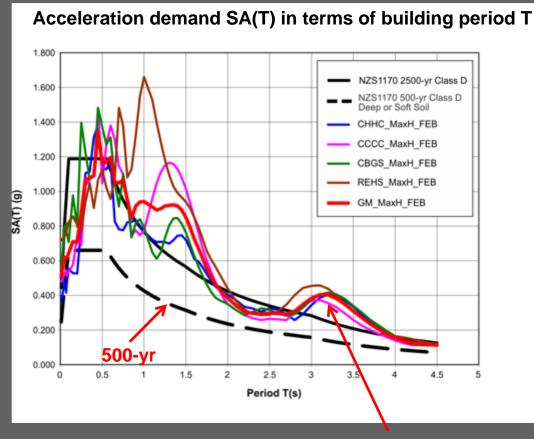
February spectra and NZS1170 design levels - four Geonet sites closest to CBD



500yr = Design-level for normal-use structures Z=0.22 **2500yr = Design-level for** post-disaster essential facilities RZ=1.8*0.22=0.40 Red curve = geometric mean for the four sites

Peak around 3s close to site period

- -several hundred metres of sediments over volcanic rocks
- -controls maximum displacement demands for long-period structures (next slide)

Royal Commission 18 October 2011

GNS Science and University of Canterbury