

Tabled at Hearing - 26/02/2012

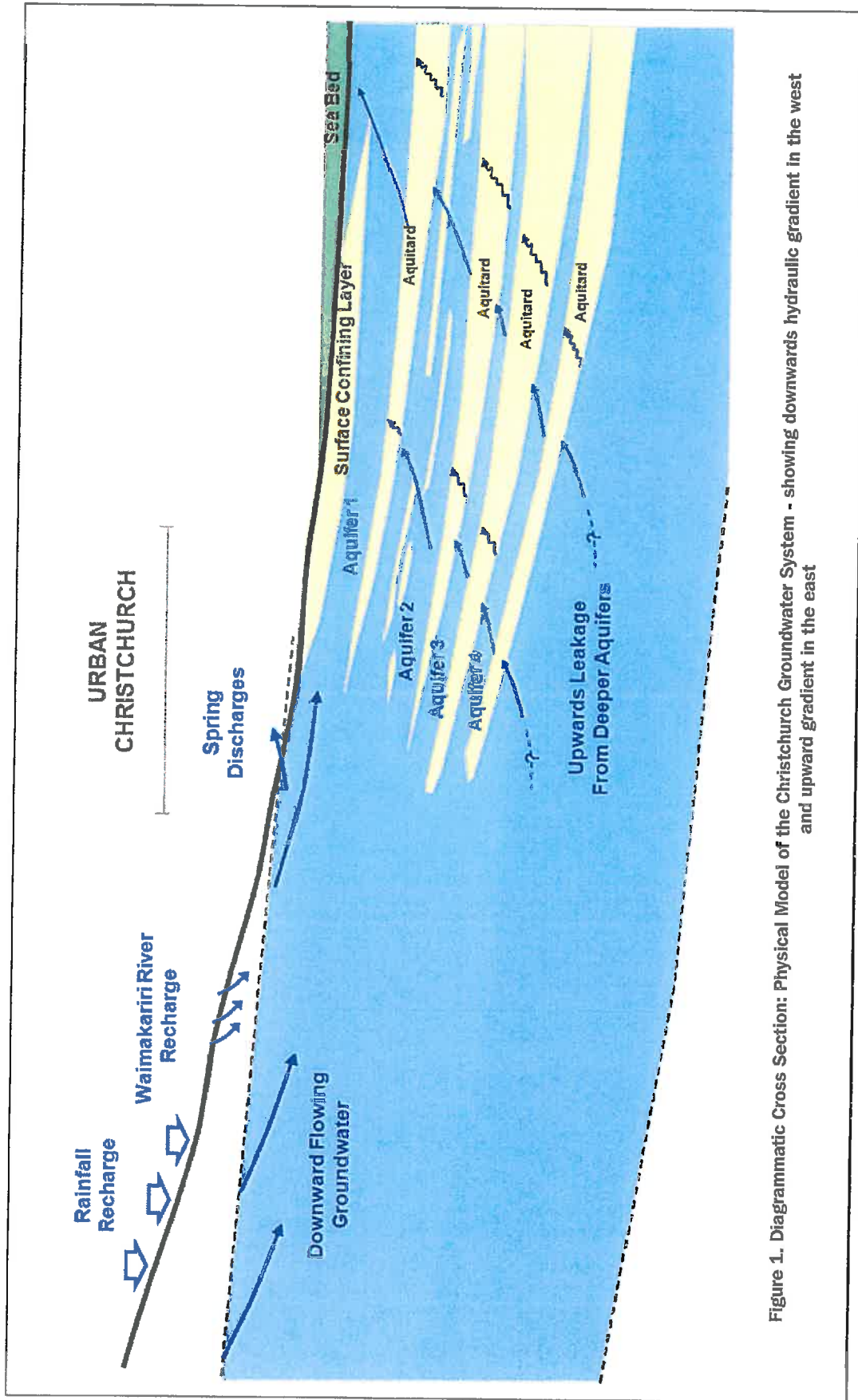


Figure 1. Diagrammatic Cross Section of the Christchurch Groundwater System - showing downwards hydraulic gradient in the west and upward gradient in the east

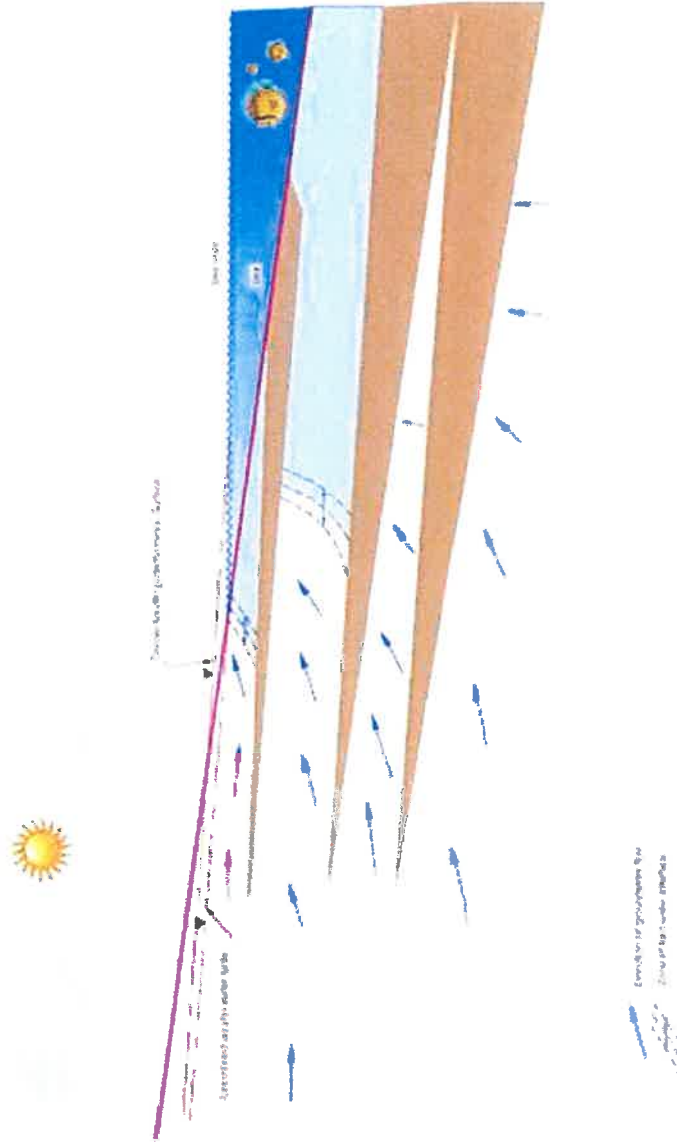


Figure 2: Schematic Diagram of Sea Water Interface

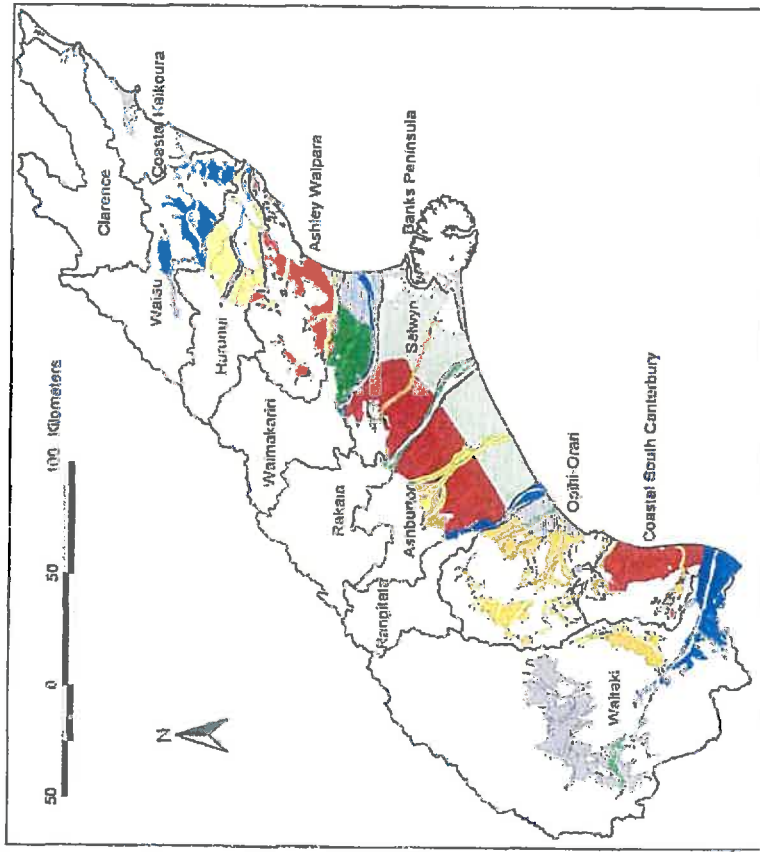


Figure 3: Summary Map of Supply and Demand Situation in Canterbury (Source: Stage 1 Canterbury Strategic Water Study)

Legend

Striped blue - Demand can be reliably met from groundwater.

Striped green - Demand can be reliably met from groundwater with the proviso that there is some plains irrigation which enhances recharge.

Blue - Demand can be reliably met from run of river supply.

Green - Unreliable run of river. Supply/demand ratio in worst irrigation season >1 . Minimal storage needed.

Yellow - Supply/demand ratio in worse case year >1 . Moderate storage needed. Require river flows outside irrigation season to fully replenish storage.

Orange - Average annual supply/demand rate > 1 . Storage possible but less likely. Large storage required which would not fully replenish every year.

Red - Average annual supply demand ratio < 1 . No amount of storage replenished from within the zone can provide for the demand.

Grey - There is insufficient data to compare with demand.

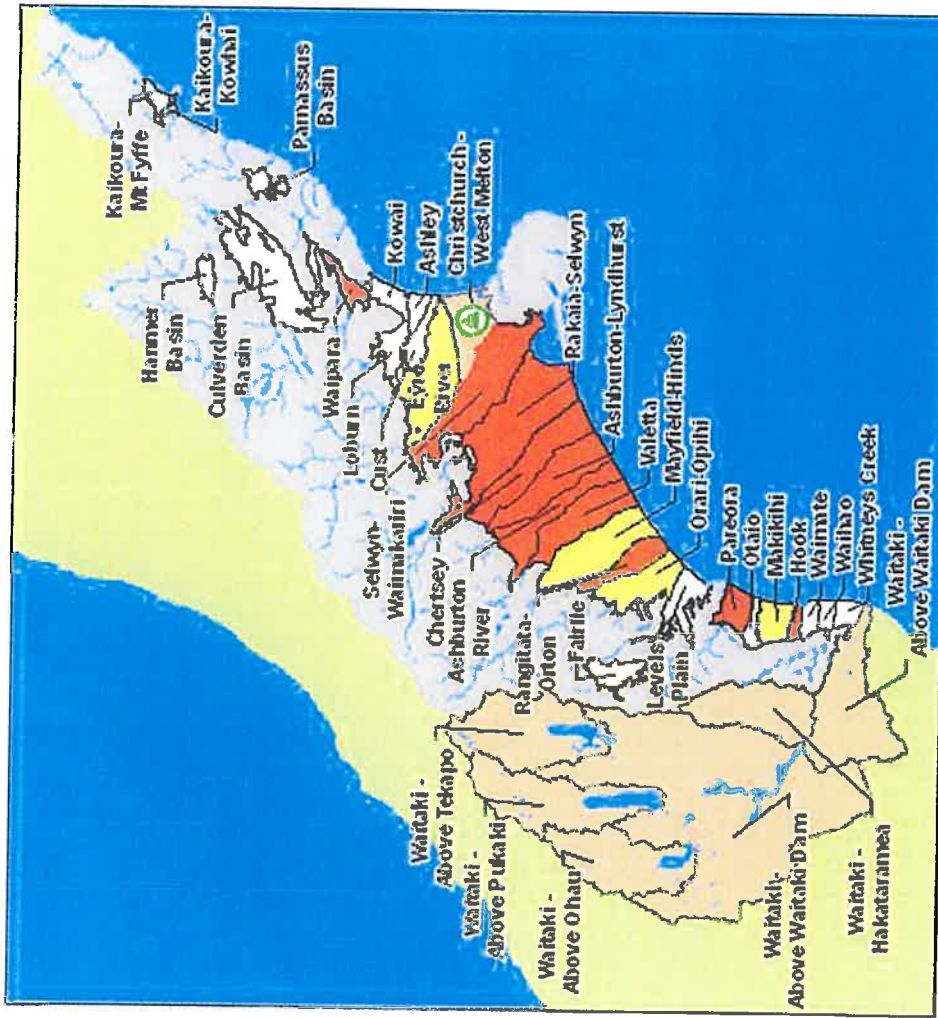


Figure 4: Groundwater allocation zones (grey shading shows area outside of zones)

