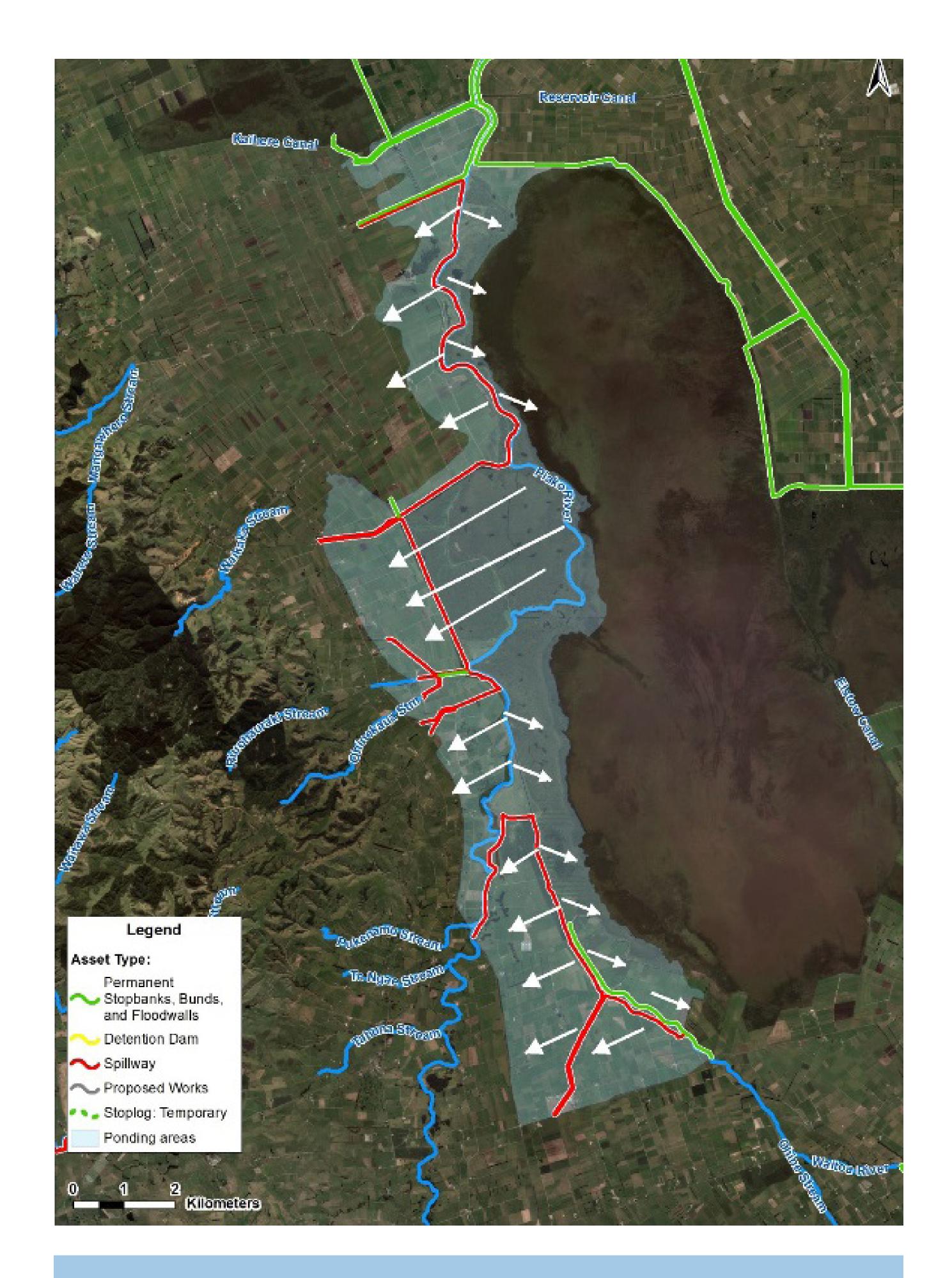
PONDING ZONES: HOW THEY WORK

The Piako River is stopbanked along both sides to convey upper catchment floodwater to the sea and to contain floodwaters.

Within the upper reaches of the stopbank system, adjacent to the Kopuatai peat dome, there are historic ponding zones.



The ponding zones store floodwater and smooth peak flood levels through the lower reaches of the river.

THE FOUR STAGES OF PONDING

PIAKO SCHEME UNDER THE

UNCONTROLLED PONDING

River water freely ponds on this area when channel flows cause a rise in water levels.

INITIAL PONDING ZONE

As the river continues to rise these areas will pond next.

FIRST EMERGENCY PONDING ZONE

When the Piako River is in flood and approaching the 10% (10 year) flow the first emergency ponding zone stopbanks overtop and floodwater accumulates within this zone.

SECOND EMERGENCY PONDING ZONE

MICROSCOPE

The hydraulic design of the Piako flood scheme is reviewed to make sure it's still doing what it was designed to do. The review takes two years.



Scheme reviewed every 10 years



Scheme review takes 2 years

27 rivers and tributaries surveyed

When the Piako River is in flood and approaching the 5% (20) year) flow, the second emergency ponding zone stopbanks overtop and water accumulates within this zone.



Review to be completed by December 2017

HE TAIAO MAURIORA HEALTHY ENVIRONMENT

HE ÖHANGA PAKARI STRONG ECONOMY

HE HAPORI HIHIRI VIBRANT COMMUNITIES

For more information call 0800 800 401

