

**From:** Don Paterson [mailto:nat.opc@xtra.co.nz] **Sent:** Wednesday, 12 June 2013 12:44 p.m. **To:** 'Julian Fitter' **Cc:** 'Pim de Monchy' **Subject:** RE: Kaituna Rediversion

Hi Julian

I would welcome an opportunity to discuss with you aspects of my proposal that you suspect that you could not support. I also wonder where you are meeting on the 18<sup>th</sup> and at what time please?

I do wish to protect NZ Dotterills and their habitat. As you know they prefer to live above the high tide mark on an un-vegetated beach and so if the unnaturally enlarged toe of the spit that is becoming all the more vegetated is eventually flushed back out to sea during a winter when the NZ Dotterills are not nesting, then the spit that will reform will suit them perfectly. Leaving water exiting at Te Tumu and through Papahikahawai Channel as well as to the south of Papahikahawai Island will continue to keep NZ Dotterills even more isolated on the spit than they currently are.

The modelling had already been done by nature in the past before a breakout was contained by the mole at Te Tumu. I believe that returning Maketu Estuary to the example that had already been modelled in the past is certainly less than complex because the river had and will do the work again for us as it previously had. If we do eventually return the galaxius spawn to Maketu Estuary by stopping salt water intrusion at Te Tumu in Stage 6 described below, then Maketu ecosystems will inevitably blossom again.

There had previously been significant flows through Papahikahawai Channel that had only had a stabilizing influence on the spit. There is historical photographic evidence of this. Except for breakouts at Te Tumu and migration of the mouth back to Maketu as previously witnessed, and as can be seen by the decreasing height of the spit towards Maketu, the spit was always stable because of a Papahikahawai Channel flow and until Fords Twin Cuts was constructed to destabilize it. No more effective design could have been created to destabilize the spit and infill the estuary than Fords Twin Cuts and so I wonder if the original intention of it had been to reclaim the estuary.

Kindest regards

Don Paterson  
CLM; President HbT. SRF; SNTR

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