

-----Original Message-----

From: Don Paterson [mailto:nat.opc@xtra.co.nz]

Sent: Friday, 14 June 2013 8:23 p.m.

To: 'Pim de Monchy'

Subject: FW: 1919 Estuary

Hi Pim

I had thought that might be the case.

Further to our most recent telephone conversation please note that Maketu Estuary spit had been stable with approximately parallel sides near to the toe of the spit and with considerable height due to the age and stability of the spit, before Fords Twin Cuts had been constructed. See attached photos. You can see from the photo titled Estuary.jpg (93 KB) that once Papahikahawai Channel flow had been stopped then Fords Twin Cuts flow had caused a flood tide delta to form because of erosion of the toe of the spit. This has happened repeatedly since then and the lower Maketu Estuary has been made to fill with sand.

Please note that Maketu Estuary spit has been eroded from behind and Maketu Estuary has been in-filled with sand from the spit since Fords Twin Cuts was constructed in isolation from a Papahikahawai Channel flow. Most recently since diversion reoccurred through Fords Twin Cuts and without the maritime marsh that had used to be in the middle of Maketu Estuary directing flow trajectory away from the spit, and as I had predicted in the Appeal Court that would happen, the back of the spit has been even more significantly eroded, narrowed, overtopped and the lower Maketu Estuary has in-filled with sand. We are not now looking at a "bath tub" but more at a braided river course through sandy shallows and that course is affected by trajectory.

The attached 1919 diagram does not show significant flow through Papahikahawai Channel but it does show extensive maritime marsh in the centre of Maketu Estuary having the effect of directing flow from the south of Papahikahawai Island away from the spit and towards the entrance. The attached photograph also show original Kaituna River flow through Maketu Estuary being directed away from the spit and towards the mouth of Maketu Estuary.

Te Tumu is not the best exit point for the Kaituna River. If we are going to spend yet more time and public money on Maketu Estuary restoration then please let us do it in a way that can be most beneficial in the long term for all users and so without having to perform on-going capital works. The

perfect scenario had been modelled in the past except for breakouts at Te Tumu. I have proposed the most cost effective and easily achievable solution to this as modelling should show.

In closing I quote GP Ford saying the same thing in 1920 that I am saying to you today:

27 AUG 1920 - SIR, THE KAITUNA DRAINAGE SCHEME

We are in receipt of the following letter from Mr G. P. Ford with reference to the above proposal

SIR.—ON READING YOUR VALUED PAPER OF AUGUST 13TH RE DRAINAGE SCHEME APPROVED FOR KAITUNA RIVER, IT VERY MUCH STRIKES ME THAT DUE CONSIDERATION WAS NOT GIVEN TO NATURE'S LAWS, WHICH THEY DEMAND, AND WILL ENFORCE,

1. THE OUTLET WOULD ENTER THE SEA AT THE MOST EXPOSED PART OF THE COAST, BETWEEN MAKETU AND THE MOUNT, AND CERTAINLY WHERE THE BIGGEST WAVES OPERATE IN ROUGH WEATHER. THIS MEANS THAT WHEN WE HAVE FLOODS, THERE WOULD BE AT LEAST DOUBLE THE HEIGHT OF SEA BAR THROWN UP THAN THERE IS NOW WHEN THE RIVER RUNS OUT PARTLY UNDER THE PROTECTION OF MAKETU HEAD, THE BIGGEST SEAS ALWAYS COMING FROM THAT DIRECTION. THIS NATURALLY MEANS A CORRESPONDING LENGTH AND HEIGHT OF FLOOD.

2.

Suppose the proposed cutting keeps open in fine weather, our present outlet would naturally fill up,

Most of the river banks, and a good deal of the swamp, are submerged at least once a month. (This does more good than harm while the water is fresh, but if a portion of the water went out at the proposed new cutting, all below, and probably half a mile above, would be submerged with salt, thus causing extermination of flax, etc. For proof of this see the useless' waste land between the present mouth and Maketu, which used to be covered with good flax. The tides would rise in the river to the same height as before.

The river is like a drain with the mouth partly blocked, though the sea bar may be perfect as it was at the last flood. This cutting would probably

carry the river to nature's receiving station, i.e. the lagoon at Maketu, when it will be ready at low tide to go 'over the old bar at Maketu, which can never be a very bad bar as long as Maketu Hill remains where it is. Thanking you in anticipation for allowing me to take up so much of yours-valuable. space. -I am, etc., G.P.Ford.

Please note GP Ford's understanding in 1920 that the bar height at the mouth of the Kaituna River is due to wave action. Please also note my previous comment to your team that if the bar height was being significantly reduce through the tidal cycle then the lower Kaituna River would drop by 2 meters at low tide and it does not. Therefore you could get more water out of the lower Kaituna River via the original course through Maketu Estuary than you can through Te Tumu. The top of the flood can still exit at Te Tumu to keep that exit open and ready for a major flood event.

Kindest regards

Don Paterson
CLM; President HbT. SRF; SNTR

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-----Original Message-----

From: Pim de Monchy [mailto:Pim.deMonchy@envbop.govt.nz]
Sent: Thursday, 13 June 2013 11:13 a.m.
To: Don Paterson (nat.opc@xtra.co.nz)
Subject: Trustee

Dear Don

I have spoken with my manager about your kind suggestion of me becoming a trustee on your proposed wetlands trust. However, as you noted, there is a risk that this role could be perceived as a conflict of interest, especially if the trust applies to Regional Council at some stage in the future for funding. On that basis I will decline your offer for now.

Best of luck with the trust and achieving its objectives.

Kind regards

Pim

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