

Watercare Services Limited

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4 August 2020

Mr Nicolas Lee

Via email: fyi-request-13419-257f567e@requests.fyi.org.nz

Dear Mr Lee

RE: Official Information Request – List and summary of modelling work done for the Manukau Harbour

Watercare received from Auckland Council your request for a summary of modelling work done for the Manukau Harbour.

Hydrodynamic modelling work on the Manukau Harbour commissioned by Watercare include extensive work done in the 1980s and early 1990s as part of the Wastewater 2000 consultation, aiming to upgrade the Mangere wastewater treatment plant. One of the main ones was *Delft Hydraulics 1993: Manukau Harbour dispersion modelling, Auckland, New Zealand*. This was focused on modelling the treated wastewater discharge and understand the best location for it.

Since then, localised modelling has been done for the Waiuku wastewater treatment plant project in 2016:

DHI 2016: Clarks Beach WWTP Options Study Hydrodynamic Modelling

DHI 2018: Waiuku Wastewater Treatment Plant Outfall modelling

Significant work is underway with NIWA, started in 2016 to produce hydrodynamic and water quality models for the whole of the Manukau Harbour. This work is still in progress.

The DHI 2016 and 2018 reports are attached. The 1993 one is too large to be emailed, happy to share it via another means if there is interest.

Yours sincerely



David Hawkins
Chief Corporate Affairs Officer
Watercare Services Limited