INFO:
Location: Raglan, New Zealand
Client: Callaghan Innovation R&D Grant
Project Date: 2017

SCOPE OF WORK:
- Development of dedicated hydrological model
- Numerical hydrodynamic modelling
- Development of daily nowcasting procedure
- Publication as interactive online resource

PROJECT DESCRIPTION:
As part of a Callaghan Innovation R&D grant, a combined hydrodynamic-hydrological modelling procedure was developed to produce up to date predictions of velocity, salinity and water level within Whaingaroa Harbour. Daily model runs produce hourly model outputs which are published as an interactive online resource, with the user able to view a colour-coded map of a chosen constituent at a chosen hour of the day. The model has also been extended to predict concentrations of riverine pathogens within the estuary.