



Project Description:

This data collection and near-field modelling project aimed to provide Eurobodalla Shire Council with data and information to assist the design or proposed upgrades to the Tomakin sewage treatment plant and ocean outfall. Using a calibrated and validated near-field numerical model, estimate the existing and future putative impacts associated with the disposal of treated wastewater to the marine environment. These results would feed into the decision making process for upgrading the sewage treatment process.

Work undertaken by WQ Data:

- Assist with data collection.
- Provide quality checks on the data.
- Validate, set up and run a near-field model to estimate the position and dilution of the discharges.
- Monte Carlo simulations of future scenarios under different upgrade configurations.

Project outcomes:

- A validated near-field model.
- Provision of model output, including an interpretation of results e.g. comparison with historical data, comparisons under peak (summer) and non-peak periods and their potential impacts.
- Technical report detailing plume movement and dilution, the likely concentrations of nutrients and bacteria and their compliance with national guidelines.

