

# Nutrient Modelling & Management

## Nutrient Modelling in Freshwater Farm Plans

OverseerFM is the most used nutrient modelling tool across New Zealand, used for years by landowners to improve nutrient usage on farms. Over recent years, Regional Councils have used Overseer FM to inform regulations for freshwater quality and on-farm activities.

OverseerFM allows us to understand nutrient (nitrogen and phosphorus) movement across the farm and how on-farm activities can influence overall nutrient leaching. This is done by modelling varying farm system scenarios before and after an on-farm activity, for example fertiliser/effluent application, to determine nutrient leaching losses.



## How can Lowe Environmental Impact (LEI) help you?

Our team of professionals have years of experience working with nutrient modelling for a wide range of scenarios, including:

- **Farm Environmental Management Plans** and **Nutrient Management Plans** for permitted and consented activities.
- **Nutrient budgeting** to consider appropriate fertiliser and nutrient distribution around the farm.
- **Land conversion** to demonstrate the potential changes in nutrient losses when considering alternative farm systems.
- **Management changes** to show how modification to farm management may influence nutrient losses.
- **Resource consent nutrient budgets** for dairy effluent, compost, biosolids and wastewater consent applications.

## Who is Lowe Environmental Impact (LEI)?

Our Certified Nutrient Management Advisers (CNMA) can prepare OverseerFM modelling and interpret the results in a way that makes sense. This modelling is required for all Freshwater Farm Plans (FWFPs), and many types of consent applications which LEI can assist you with.