

## Farm Nutrient Retention Trials - End of first year soil sampling - 29 August 2023

## Jeff and Helen Martin's Farm on Te Ranga Road,



## Task:

## Complete the following 12 monthly tests for the areas shown below:

- Assessment of nitrate, ammonium and Phosphorus levels in subsoil water, runoff water, and natural waterways.
- Assessment of soil for levels of P, K, Ca, Na, Mg, S, N, Fe, Cu, Mn, Zn, B, pH, CEC (cation exchange capacity), BS (base saturation), nitrate, ammonium, cobalt, dry matter, organic matter and pH.
- Determination of the soil CO<sub>2</sub> respiration
- Leaching testing for excess of Ammonium, Nitrate and Phosphate leach from the topsoil into the nearest water way.







Pipe takes a soil plug for leaching test – In the lab 100ml of clean rainwater is poured on top to monitor how long it takes to permeate the soil and how much is absorbed.



