

## Trends in soil quality for sites monitored 4 times from 2000 to 2015

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Monitoring of soil properties provides important information on the overall health of the soil and any potential impacts of land use. Several regional councils have been monitoring soil quality since 2000 following the “500 soils project” and the national guidelines “Land and Soil Monitoring: A guide for SoE and regional council reporting” to report on the life supporting capacity of soil and to determine whether current practices will meet the foreseeable needs of future generations.

Many soil quality sites have been monitored four times during this period. Measurements include soil pH in water, total C, total N, Olsen P, anaerobically mineralisable N (AMN), bulk density and soil macroporosity at a tension of -10kPa. Data from the Auckland, Waikato and Wellington regions are collated and trends presented. Land use and Soil Order impacts, will be discussed. The usefulness of the different indicators will be briefly examined along with how these results sit in relation to the Environmental Monitoring and Reporting (EMAR) process. An approach to addressing land use change when dealing with trend analyses will also be provided