




Biological diversity in NZ aquifers


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Field	Count
No. bores	374
No. field samples	5,294
No. hydro-chem tests	25,448
No. eDNA runs for 16S	711
No. eDNA runs for 18S	711
No. eDNA runs for ITS	711

 Alluvial gravel




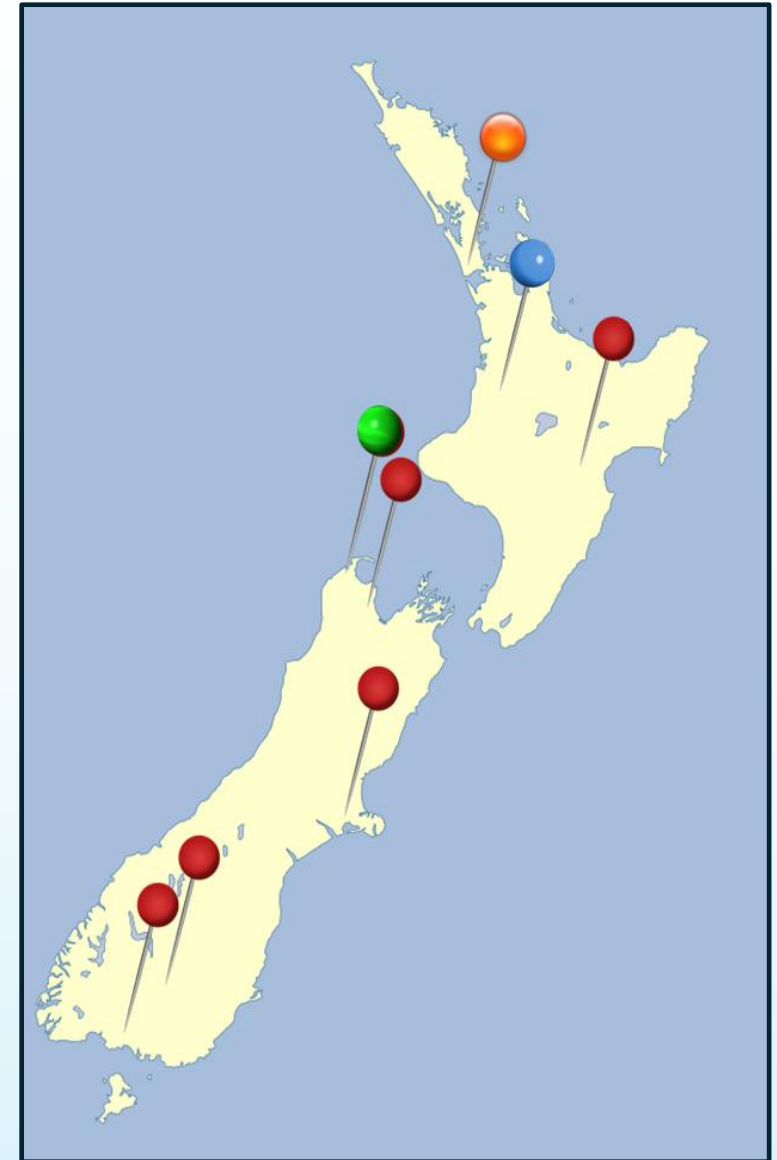
 Marble



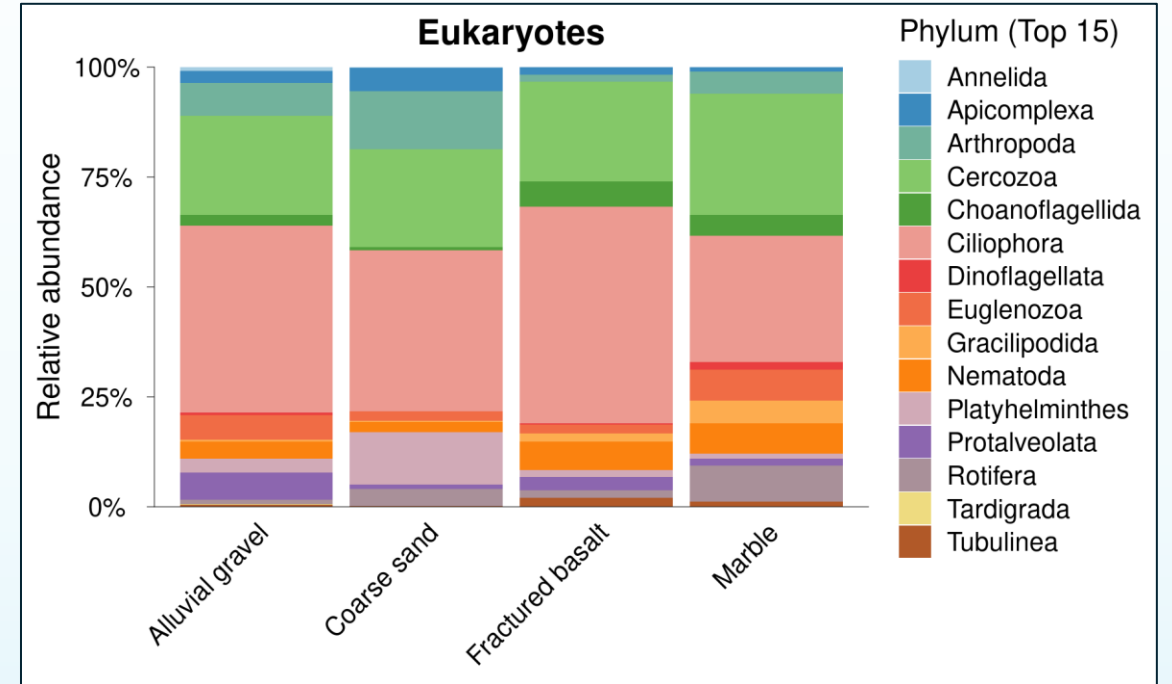
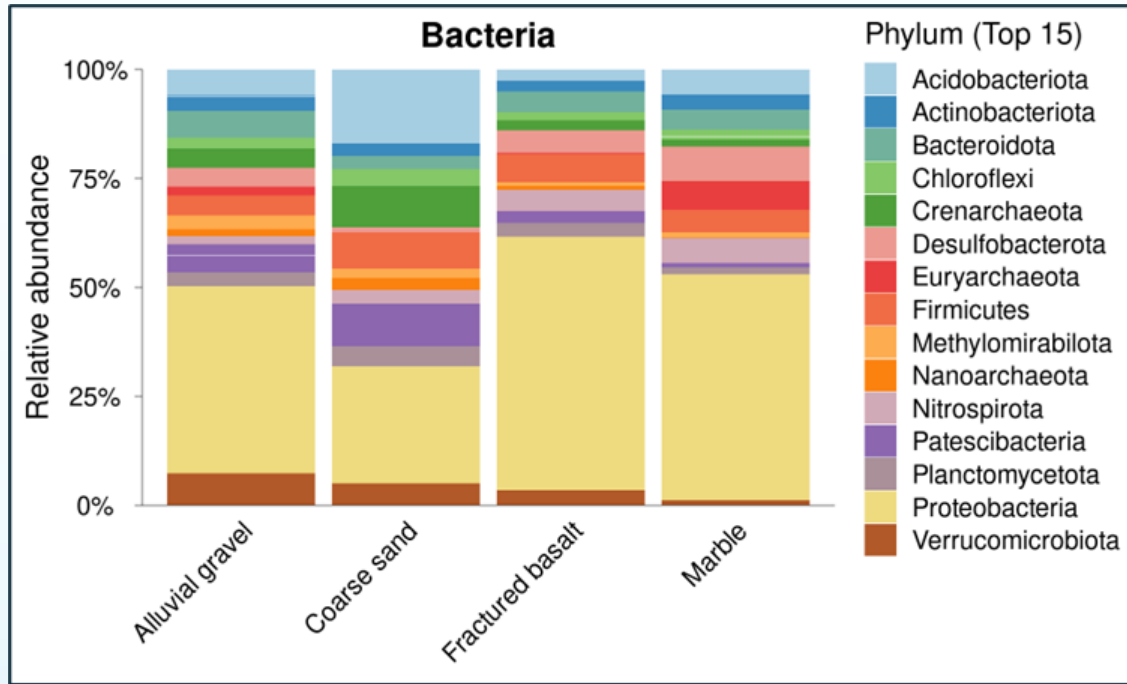
 Coarse sand



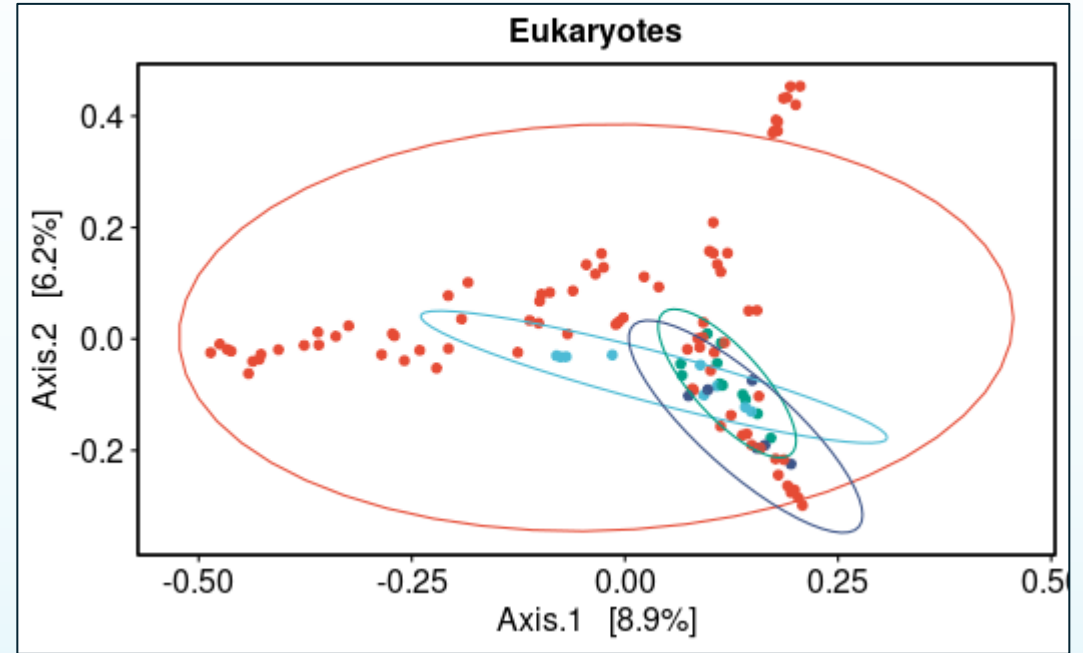
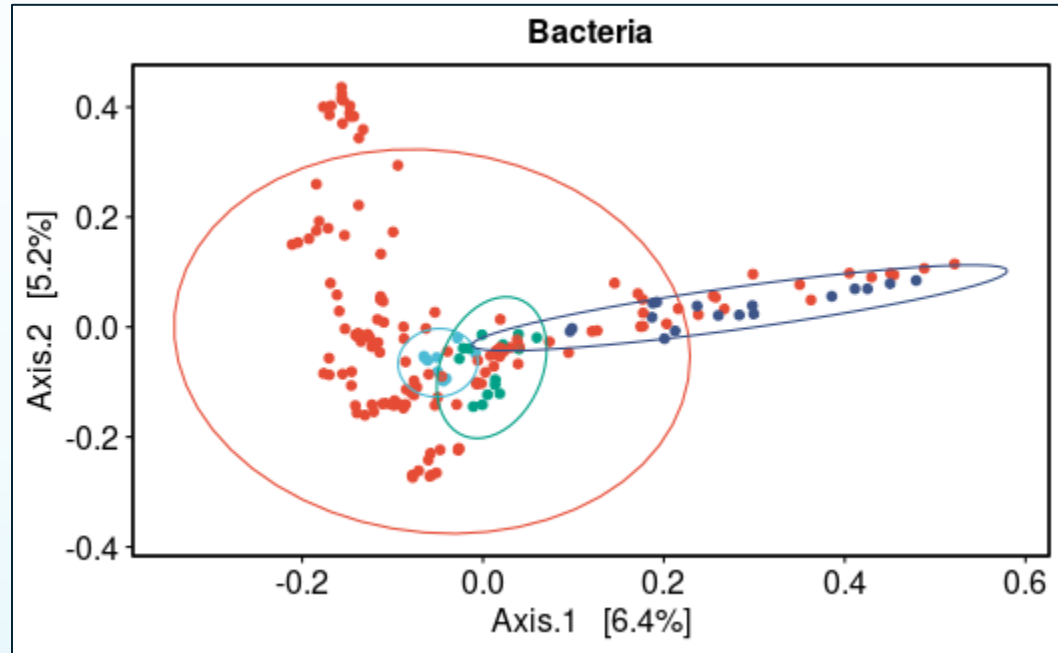
 Fractured basalt



Abundance plots



Beta diversity plots



● Alluvial gravel ● Coarse sand ● Fractured basalt ● Marble

Conclusions

- eDNA can be used to assess the biodiversity of NZ aquifers but...
- Other factors such as hydro-chemistry, lithology, land use practices & environmental influences must be included into assessments
- More information: MfE report



GROUNDWATER ECOSYSTEMS PRELIMINARY BIODIVERSITY OF UNCOMMON AQUIFERS: FRACTURED BASALT AND COARSE SAND

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*Groundwater ecosystems preliminary biodiversity of
Fractured Basalt and Coarse Sand | MfE*

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