

Is mechanical aeration a strategy to alleviate soil compaction and decrease P and SS losses from irrigated and rain-fed cattle grazed pastures?

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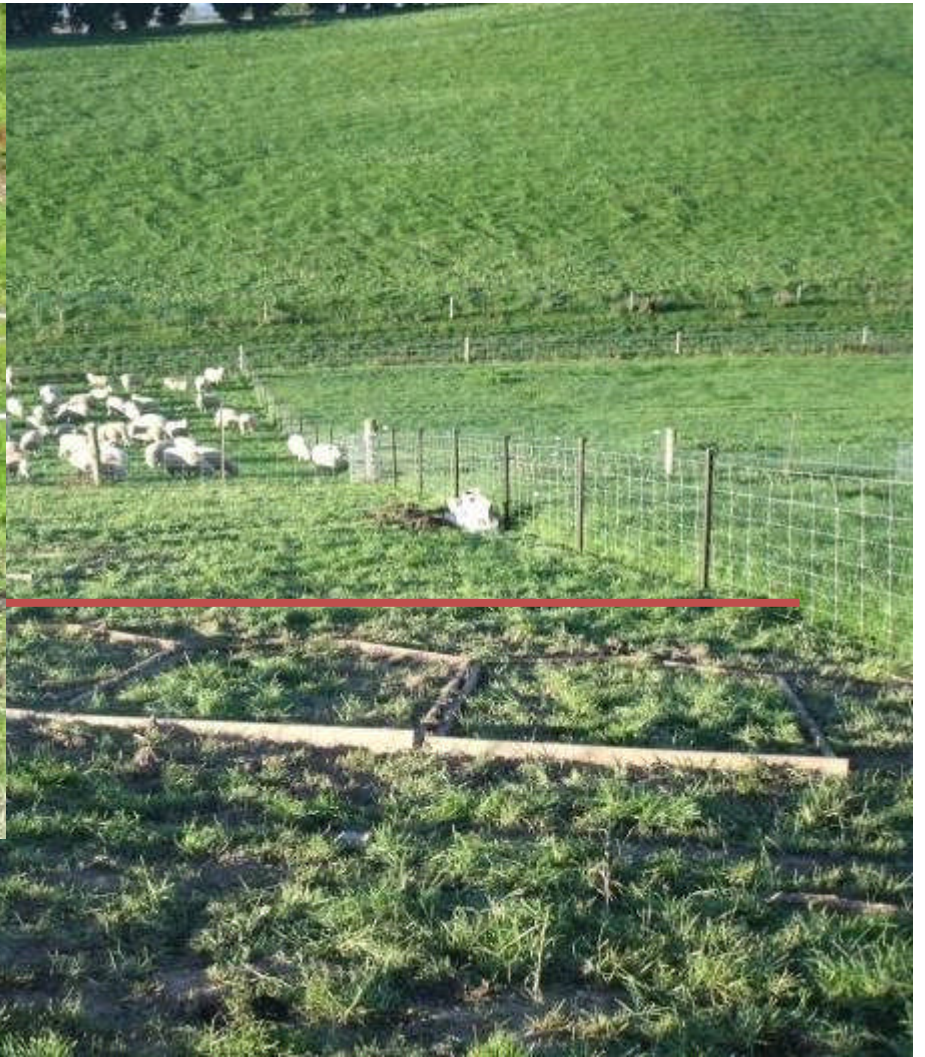
Auckland Council
Te Kaunihera o Tāmaki Makaurau



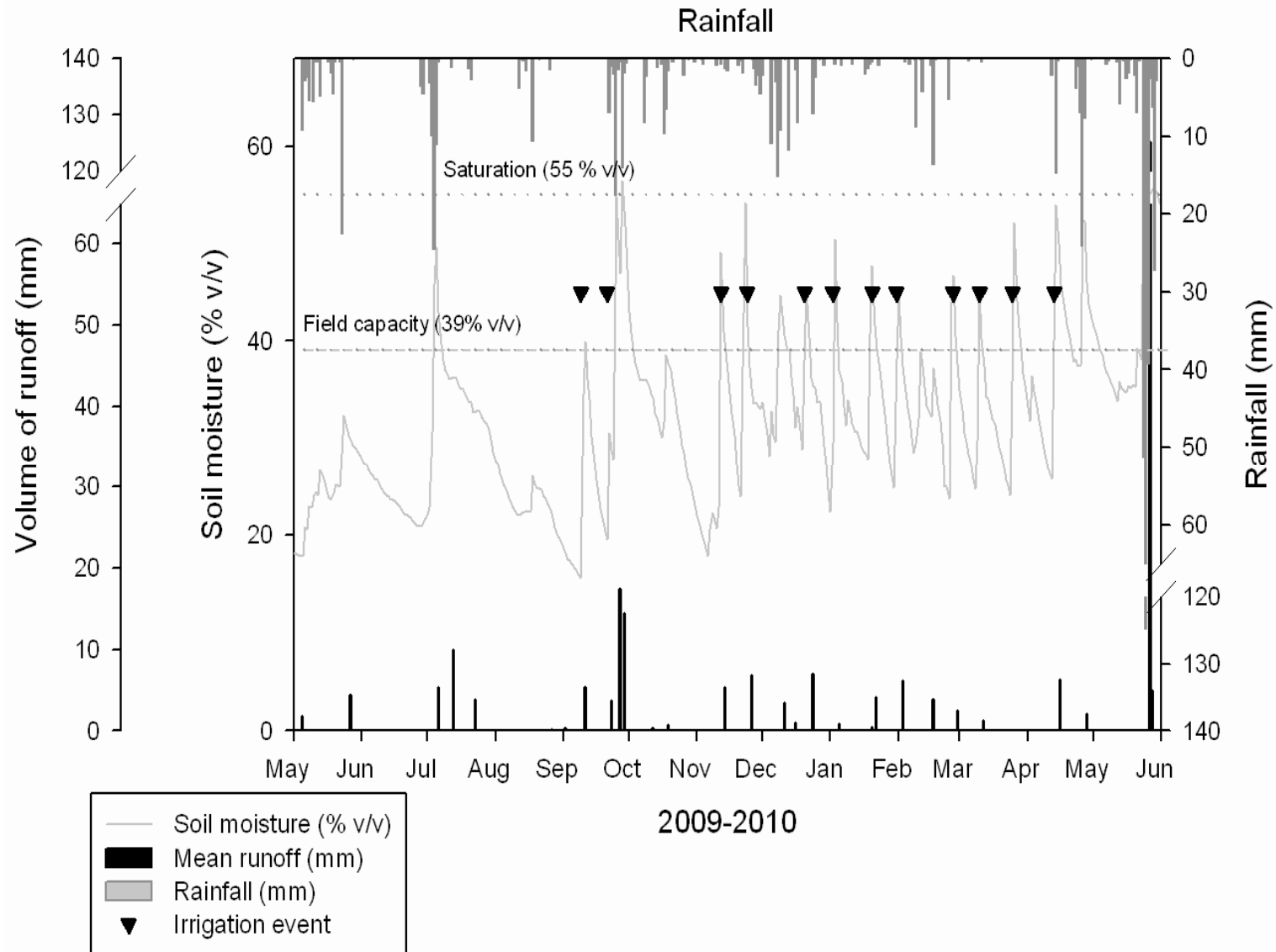


Eutrophication

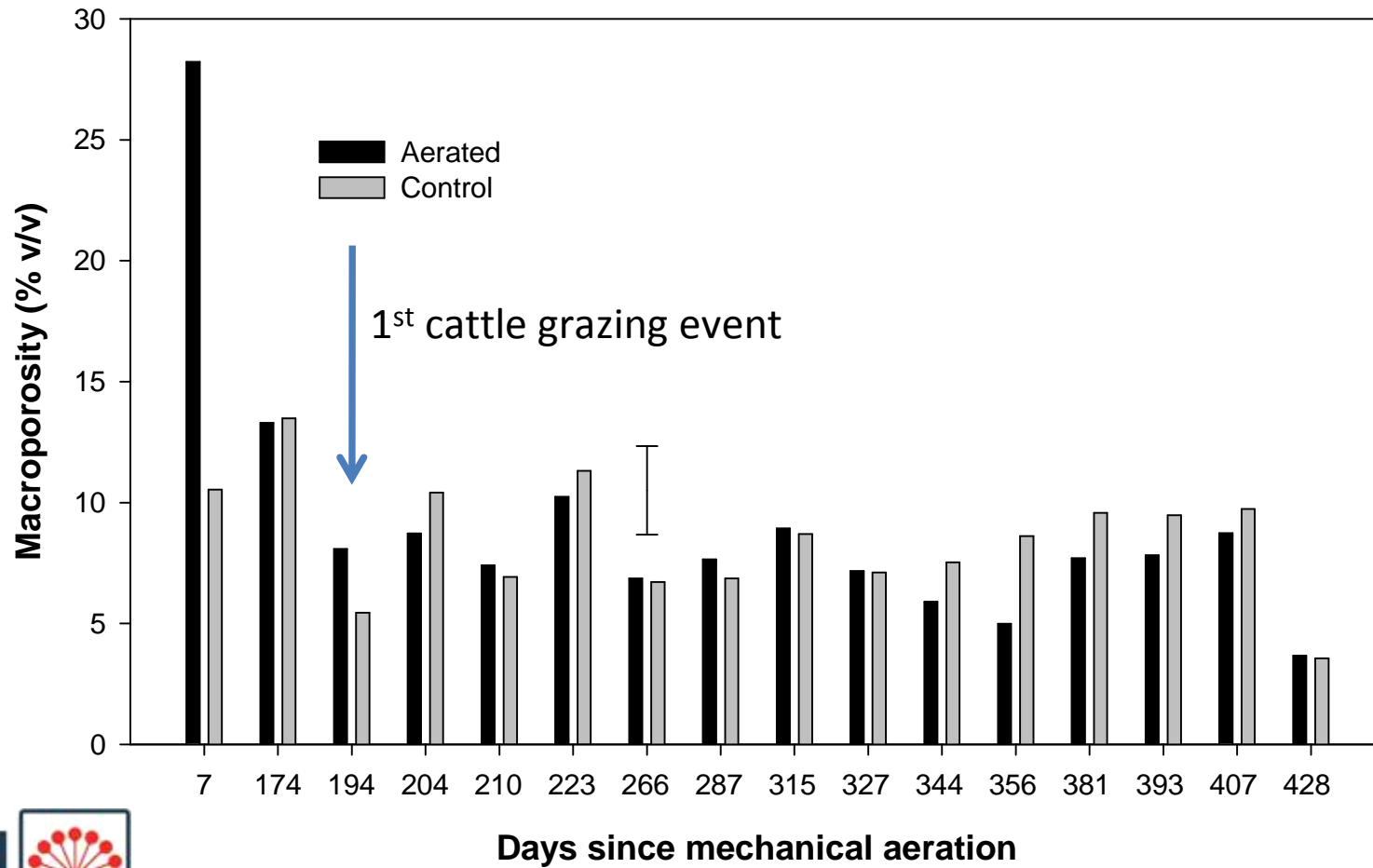




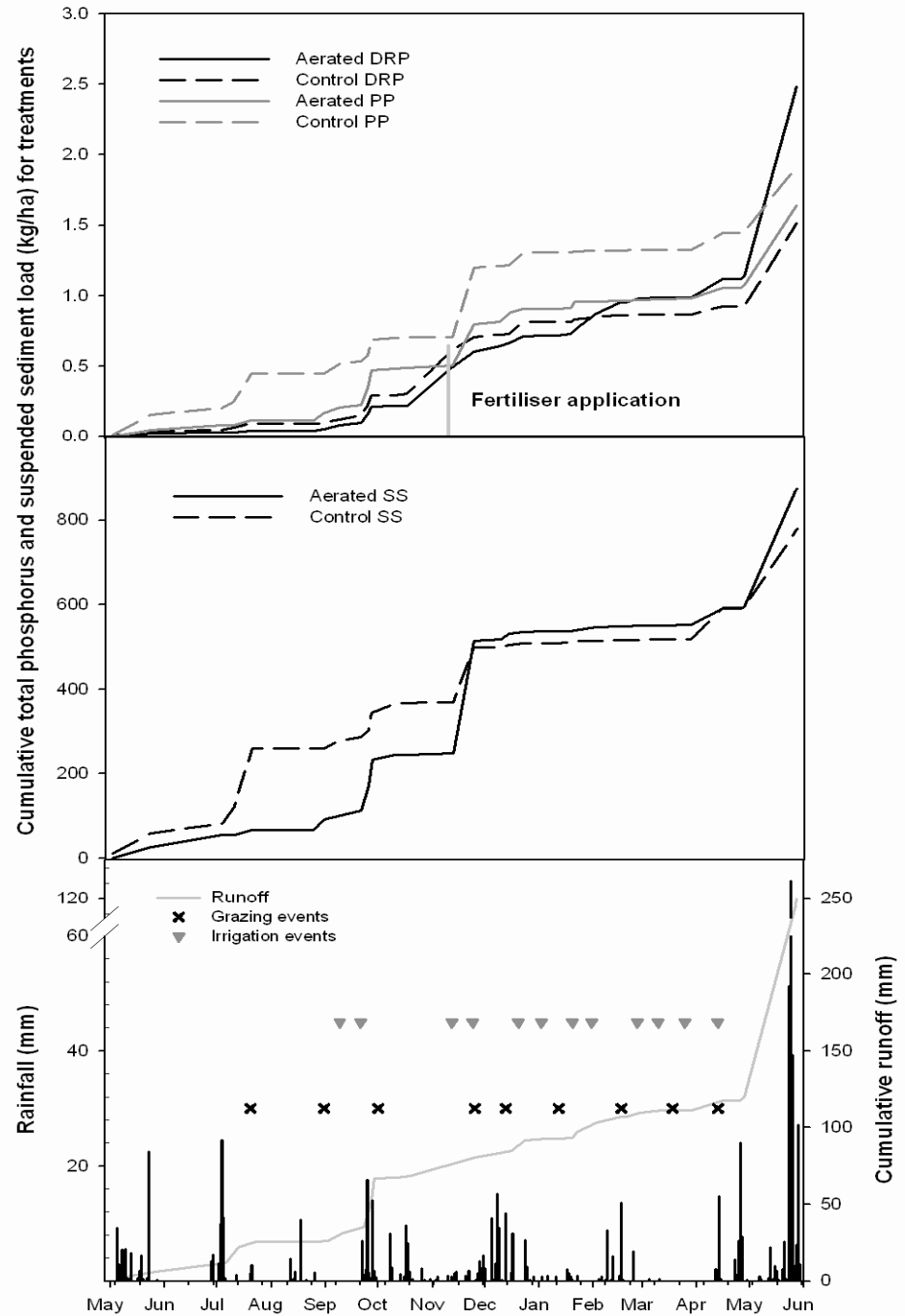
Hydrology



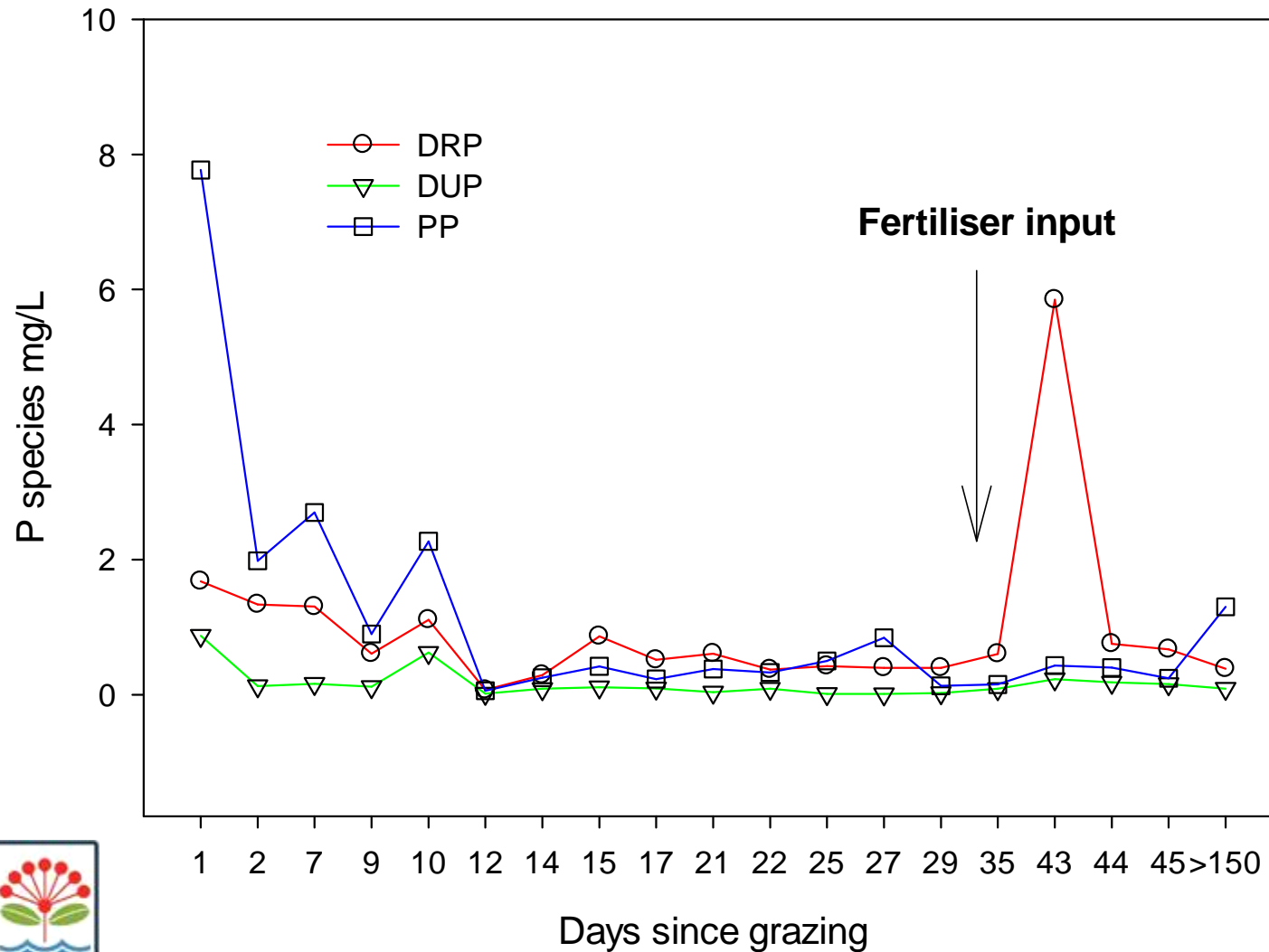
Macroporosity and days since mechanical aeration



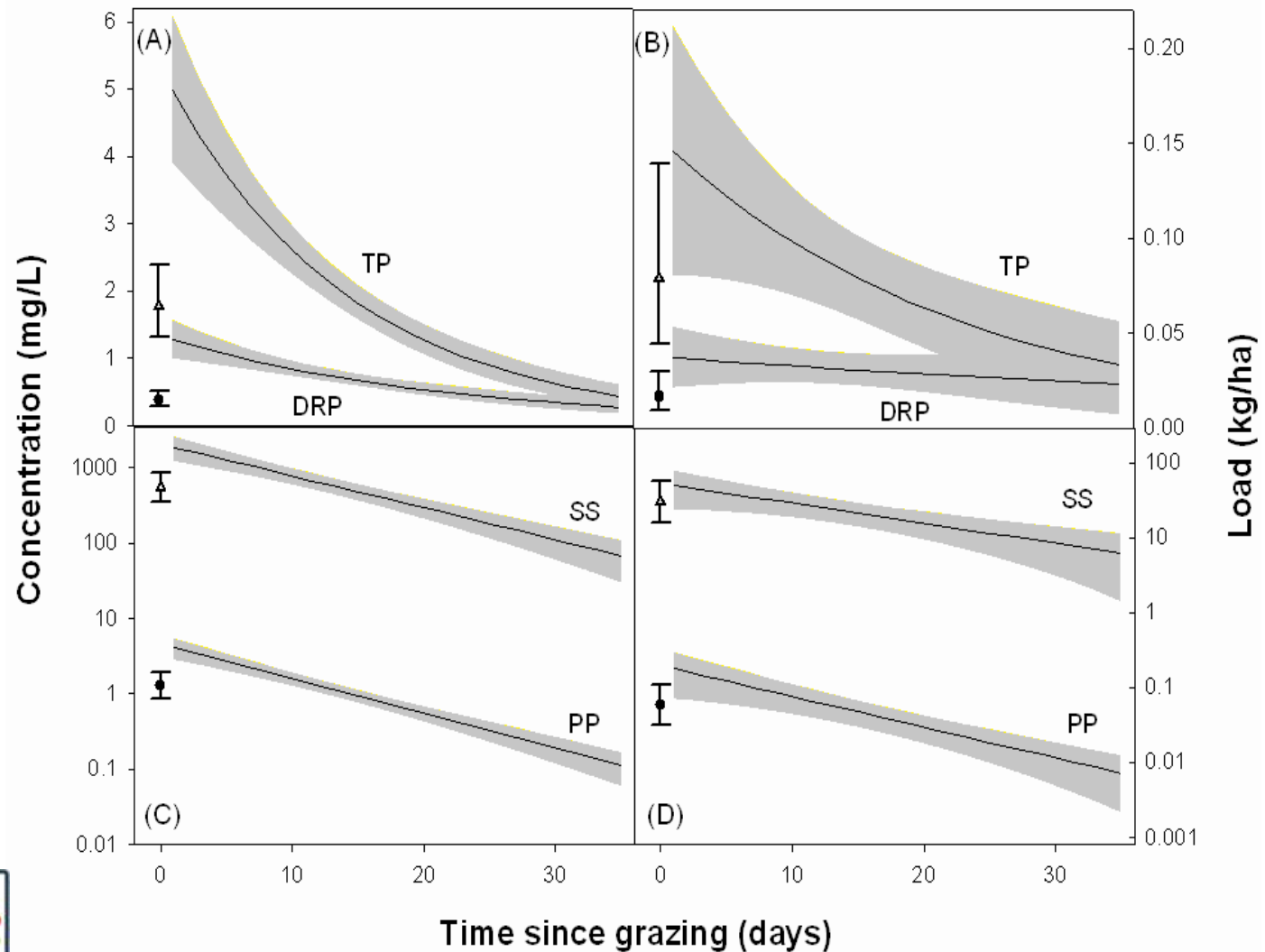
Cumulative losses of P and SS 2009-10



Days since grazing and fertiliser input



Days since grazing and P and SS losses



Conclusion

- Benefits of mechanical aeration on soil physical properties were short lived and failed to mitigate P and SS losses
- These findings suggest that BMPs thought to alleviate soil physical compaction need to be thoroughly tested before being recommended to land owners

Curran Cournane F, et al., (2011)
Soil Use and Management **27** 376-384

