



**For now &  
our future**

# **Location, Location, Location**

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# Municipal Wastewater Treatment

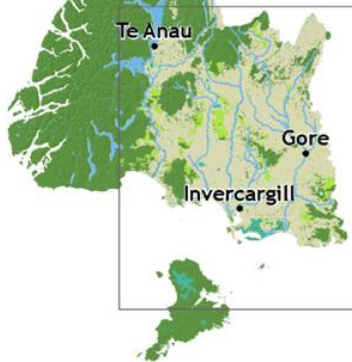


# The Southland Economic Project



# A couple of points...

- The main reason for a town's location is usually its relationship with water
- A town's location near water is now an asset and a challenge



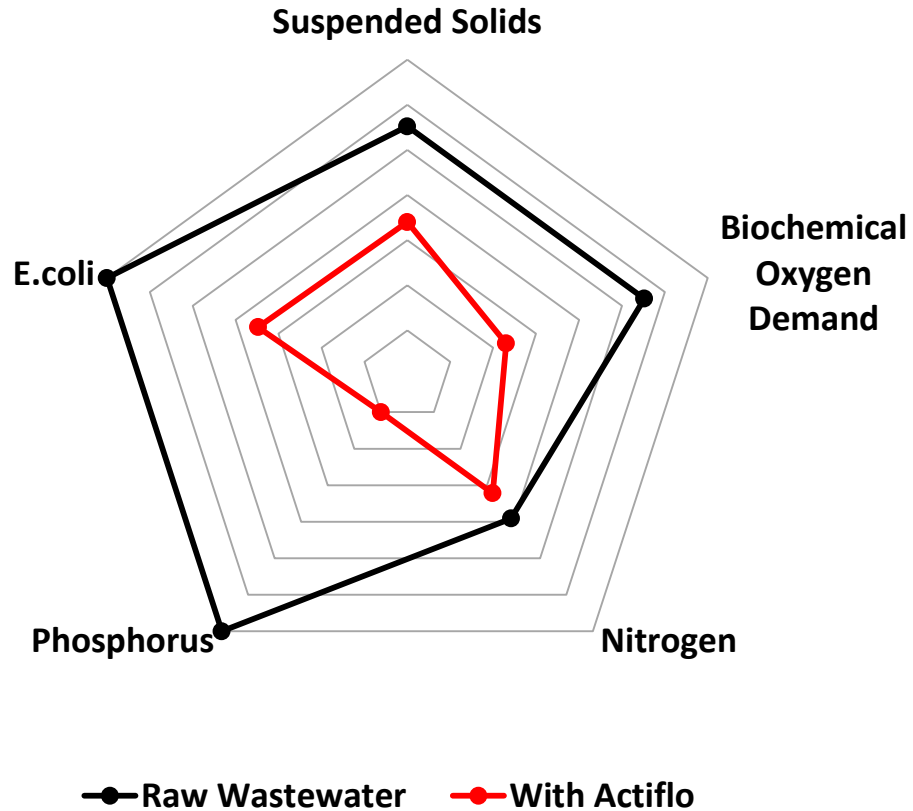
### Land Cover



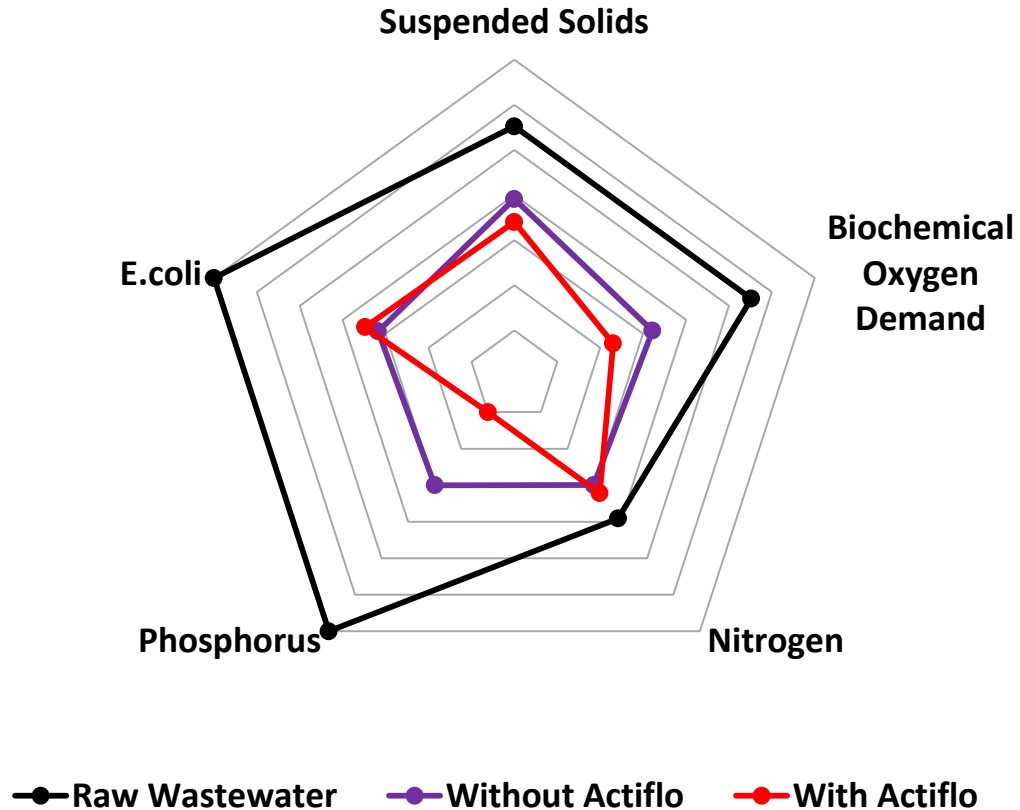
# The research

- Case studies: Gore, Mataura, Invercargill, Bluff, Winton, Nightcaps, Ohai, and Te Anau
- Contaminants: suspended solids, biochemical dissolved oxygen demand, total nitrogen, total phosphorus, and *E. coli*

# Gore – treatment system

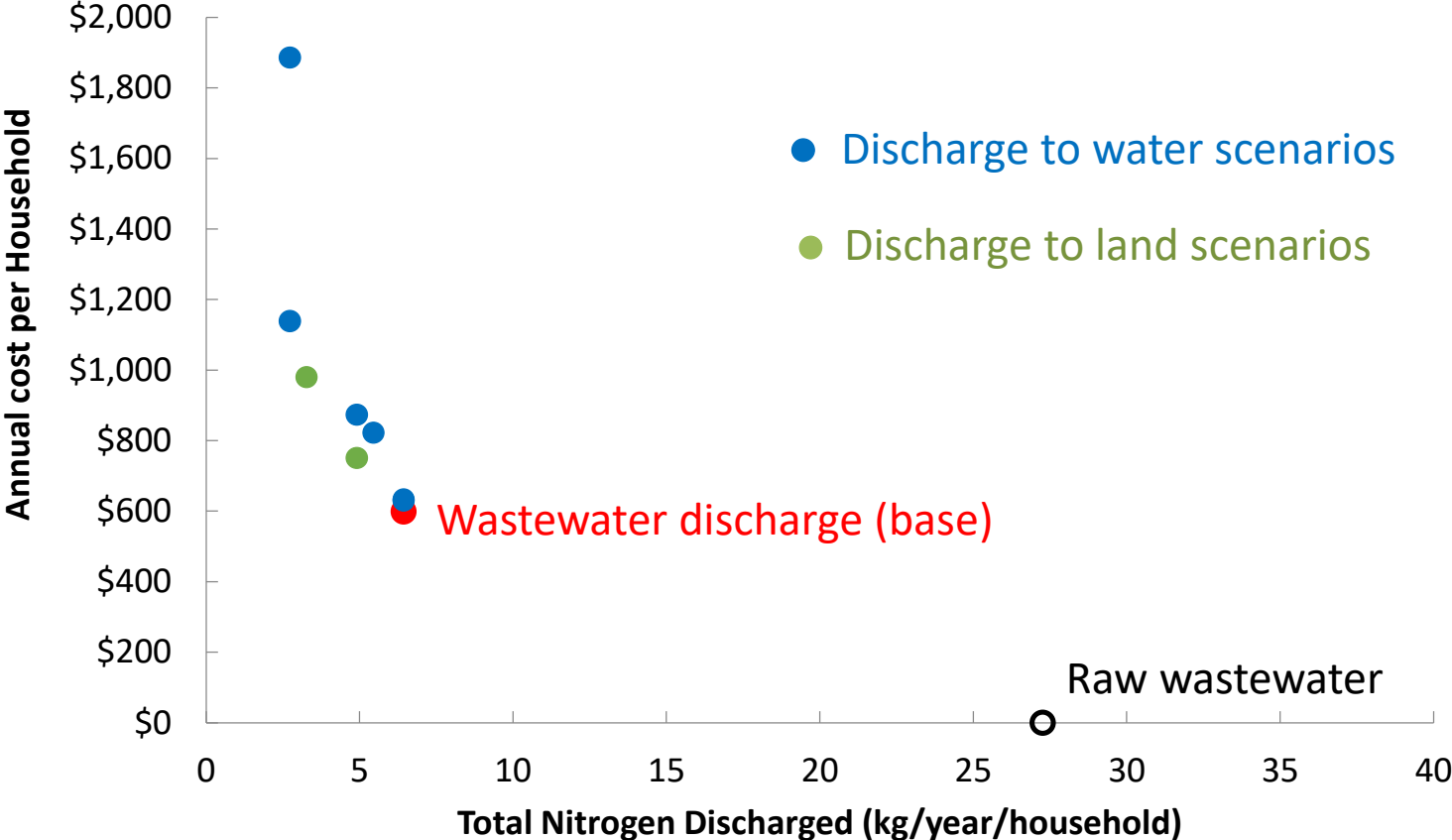


# Gore – treatment system

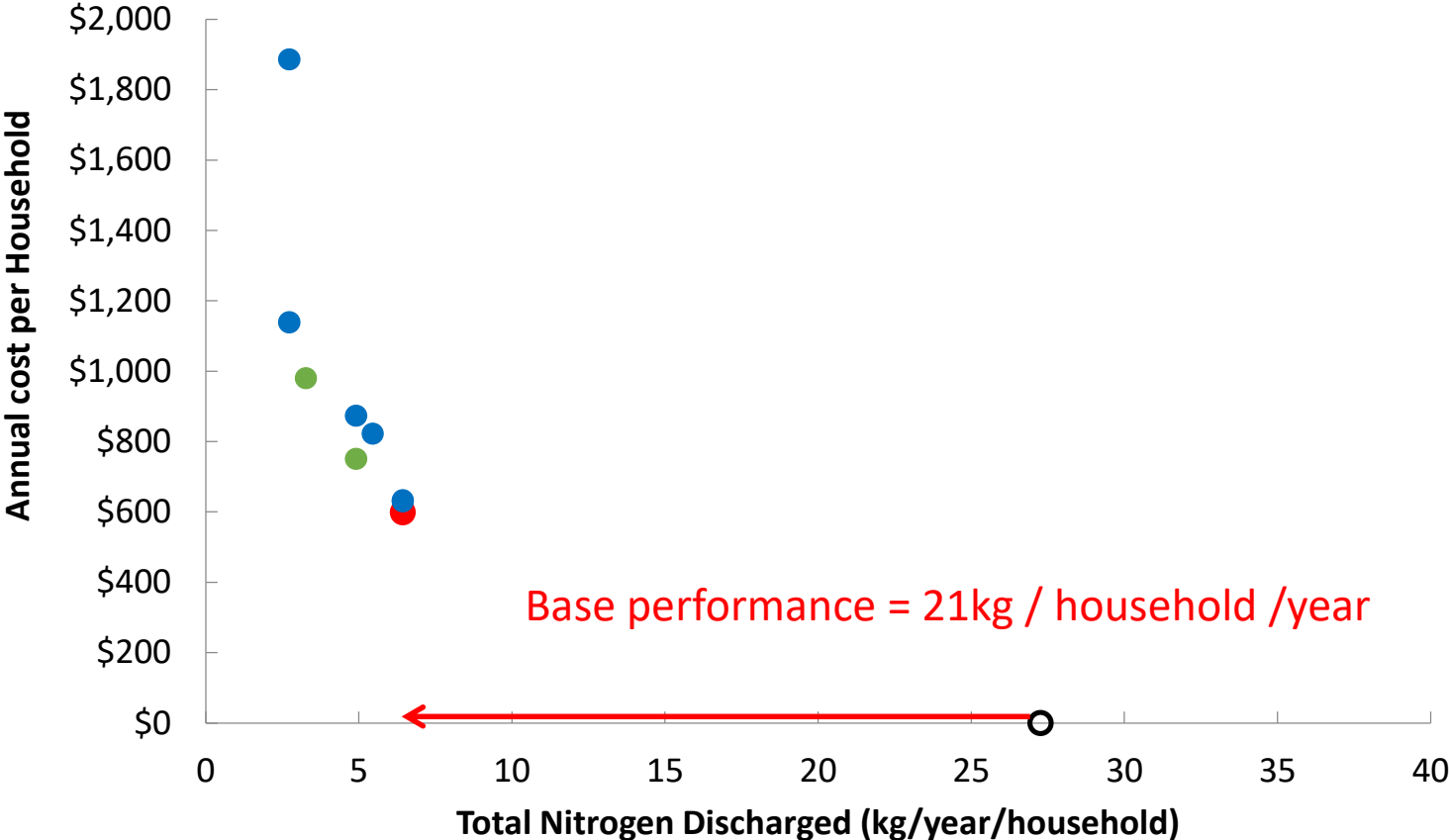




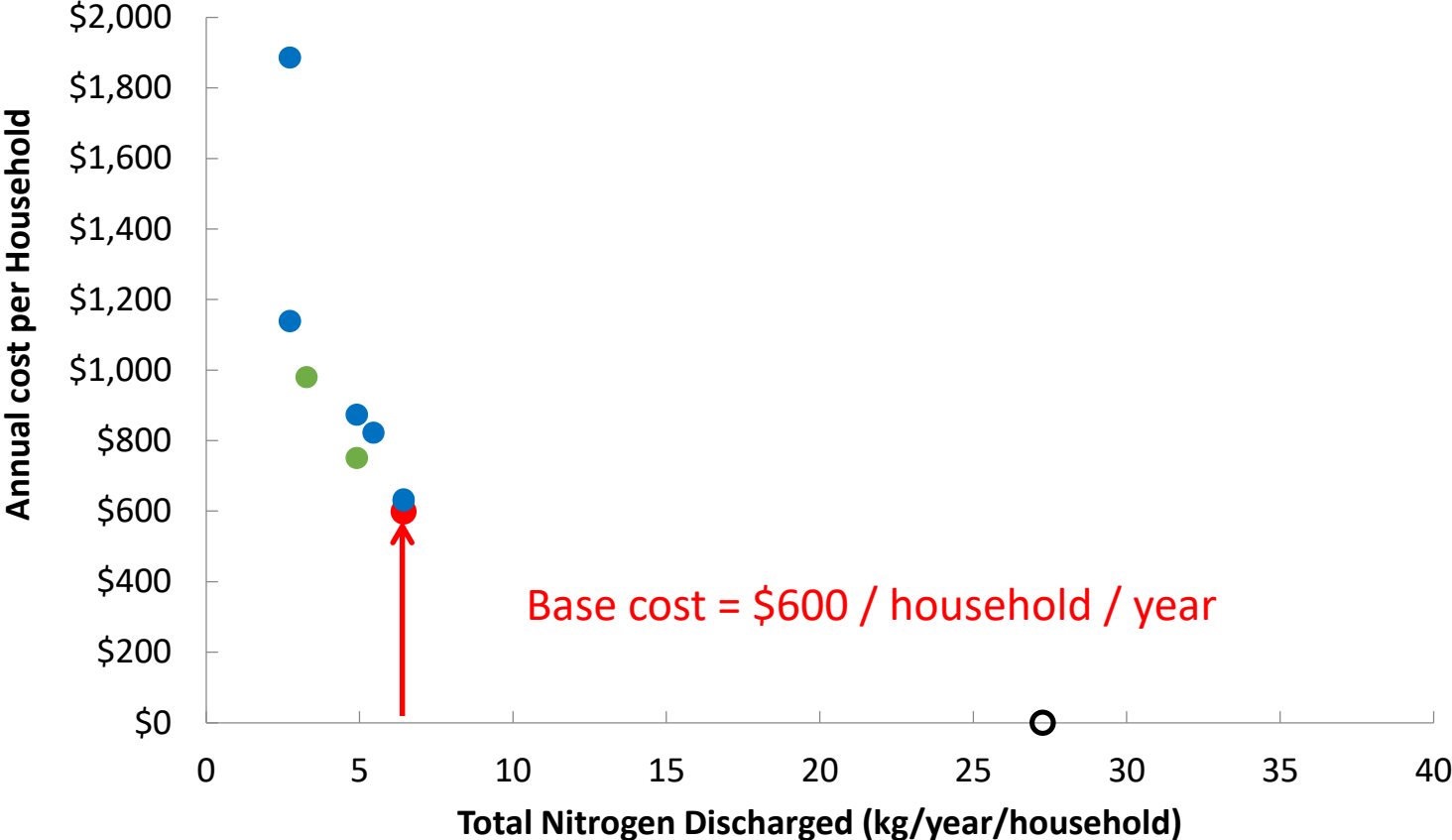
# Gore – total nitrogen discharge



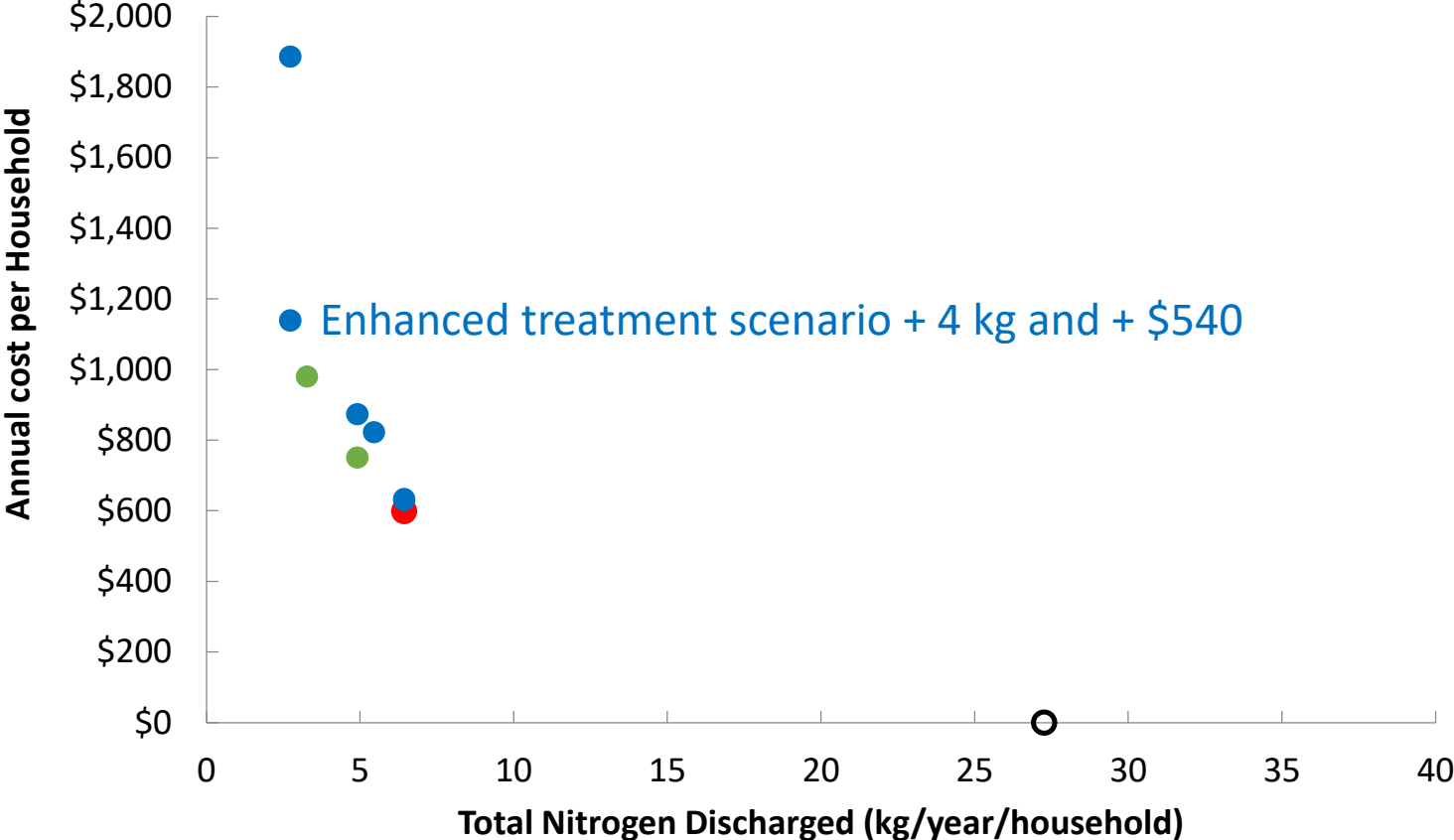
# Gore – total nitrogen discharge



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# Joining the dots

- Between essential infrastructure
- Between town and country
- Between a town and its environment

