

Yorkshire Water Services (YWS)

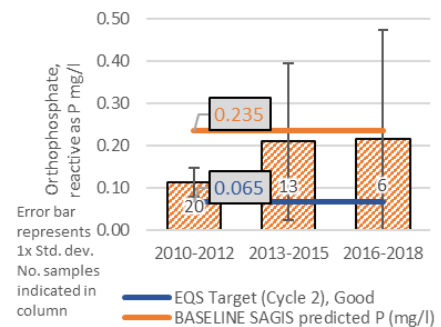
YWS Catchment Approach to WINEP Phosphorus Removal Programme

Stantec are supporting YWS to optimise their wastewater Water Industry National Environment Programme (WINEP) programme for phosphorus (P). This evidence led project is assessing the potential for catchment measures to reduce P loads to surface waters to help offset the higher carbon costs of meeting tighter permit conditions through traditional wastewater treatment technology. The contribution of catchment measures enables lower carbon treatment technologies to be used but also provides a component that is sustainable, improves biodiversity and has the potential to provide wider socio-economic benefits.

Location: Yorkshire, United Kingdom

Services

- Detailed evidence review to identify options.
- Comparison of measured and modelled water quality data to provide a robust assessment of trend and current condition.
- Review of effectiveness of catchment measures to deliver required load reductions.
- Ground-truthing using local catchment knowledge to inform the design of Catchment Nutrient Balancing (CNB) trials.



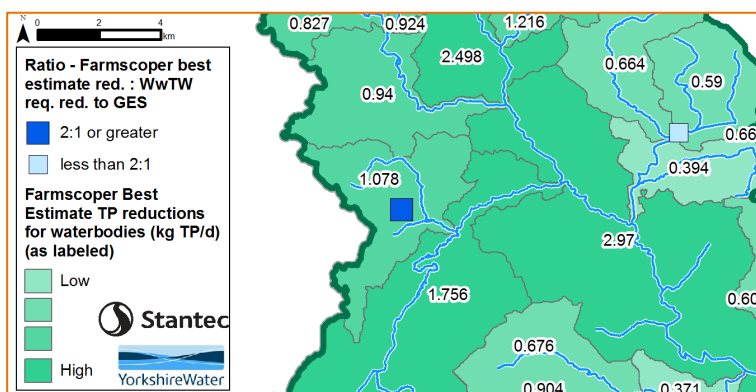
The Project

Integrated system-based thinking to wastewater management at the river catchment scale offers the potential for sustainable solutions that not only improve receiving water quality but are potentially more sustainable, resilient and have ecological benefits.

The team have screened and prioritised 70+ sites and 150 upstream waterbodies, building a comprehensive evidence base to support solution development ahead of seeking regulatory approval.

Outcomes

Combining the assessment of traditional treatment and catchment management options is providing the evidence to underpin, with confidence, where CNB trials are viable. Stantec continue to work alongside YWS, to design and implement targeted catchment management programmes alongside existing clean water catchment initiatives.



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