

# Water Resource Associates

*A network of consultants in hydraulics, hydrology, groundwater & environmental issues*

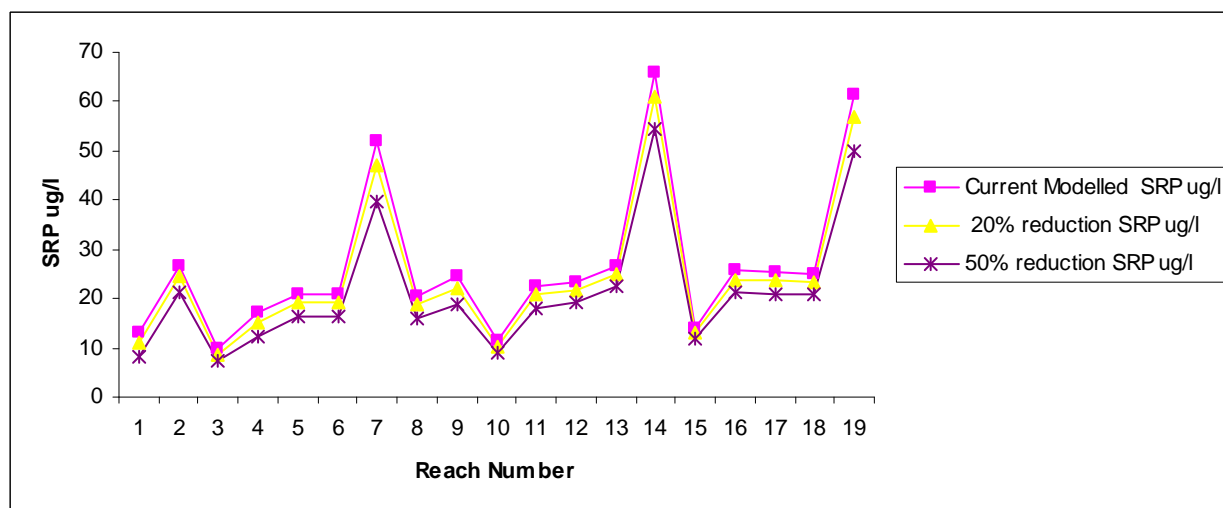
**Project title:** Catchment Sensitive Farming Measures to reduce water pollution in the Wensum- an INCA modelling Study

**Summary:** The impacts of new catchment sensitive farming techniques have been investigated using the INCA model for N and P and applied to the River Wensum.

<b>Client:</b> Environment Agency	<b>Financed by:</b> Environment Agency
<b>Period of assignment:</b> 2008-09	<b>Location:</b> UK
<b>Project Value:</b> £25,000	<b>WRA services:</b> £25,000

## Background

The UK government via DEFRA and the EA is currently reviewing agricultural diffuse pollution and aims to introduce catchment sensitive farming as part of the Water Framework Programme. WRA has undertaken a new modelling study of the River Wensum to assess the potential for reducing nitrate and phosphorus in the river systems. The INCA N and INCA P models have been set up for the whole Wensum River Basin to simulate N and P and a set of scenarios investigated to look at a range of nutrient reduction measures. A typical plot shown below indicates that it is going to be difficult to reduce P significantly because of the store of P available in the soils and the sediments.



## Scope of WRA assignment

Applications of the INCA Model to assess Catchment Sensitive Farming strategies in the River Wensum.

## Results

Report to EA, entitled "Catchment Sensitive Farming: Impacts on River Systems".

Contact Paul Whitehead for further information.

Project Number 000256

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