

## Natural capital River Beane

Each year, we work on enhancement schemes within our catchments to improve the environment.

In the catchment area around the River Beane, we have undertaken river improvement works, removed invasive species, evaluated our ability to reduce abstraction and worked with farmers to change farming practices by using winter cover crops – that is crops planted for other benefits rather than harvesting.

To quantify the impact of these schemes on the health of the environment, we use a natural capital approach and develop a natural capital account. We developed our River Beane natural capital account through a desk study using the Environment Agency's Natural Capital Register Accounting Tool ('NCRAT'). We supplemented this with Farmscoper and Biodiversity Net Gain Metric 3.1, allowing us to quantify and value 11 different ecosystem services.

To assess the environmental value added, we developed a baseline for the Beane catchment and then evaluated the benefits of our various environmental enhancement schemes, and their value to people and society through measures such as their quantity, condition, and location of natural assets. Once the environmental impacts and improvements have been quantified, it is possible to assign a financial value. The natural capital account demonstrated we made improvements to the environment (or natural capital), which included, for example, biodiversity, water quality and carbon reduction.

The table to the right highlights the environmental benefits of each of our projects in the River Beane catchment.

### Woodhall Phase 1

**Carbon seq.**  
6.39 tCO<sub>2</sub>e/yr

**Water qual. emissions reduction**  
-18.85 kg N/yr  
-0.39 kg P/yr  
-251 kg SS/yr

**Biodiversity**  
3.09 (Habitat units)  
2.33 (River units)

**Water qual bundled benefits**  
0.63km improved

### Walkern Road

**Water qual bundled benefits**  
2.58km improved

### The Rookery

**Water qual bundled benefits**  
1.49km improved

### Cover cropping

**Carbon seq.**  
67 tCO<sub>2</sub>e/yr

**Water qual. emissions reduction**  
-1,969kg N/yr  
-7 kg P/yr

**Biodiversity**  
267 (Habitat units)

### Woodhall Phase 2

**Carbon seq.**  
6.1 tCO<sub>2</sub>e/yr

**Water qual. emissions reduction**  
-17.42 kg N/yr  
-0.37 kg P/yr  
-238 kg SS/yr

**Biodiversity**  
2.83 (Habitat units)  
2.97 (River units)

**Water qual bundled benefits**  
1.42km improved

### Frogmore Park

**Water qual bundled benefits**  
0.71km improved

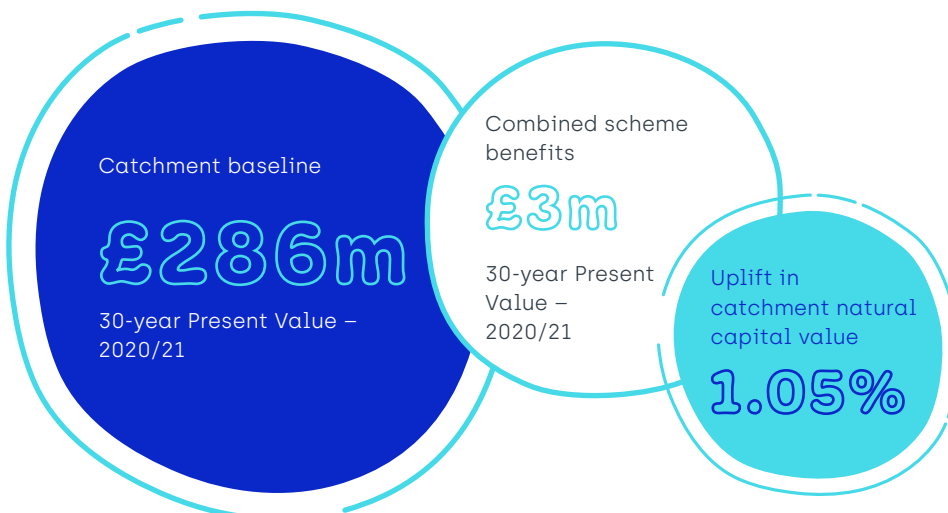
### INNS

**Biodiversity**  
0.84 (Habitat units/ha)

### Sustainability reduction

**Biodiversity**  
2.15 (River units/km)

## Total natural capital contribution to catchment baseline



### UNSDGs

Our alignment with the UN Sustainable Development Goals



+£1,247 per ha of INNS removal (30-year Present Value – 2020/21) INNS Out