London’s Rivers

600km

LRAP
310 macroinvertebrate species

Leeming and England 2004
Working for eels since 2005
Citizen Science project launched in 2011
working together for eels
Site Partner
- volunteer coordination
- upload data

Environment Agency
- license
- build passes with traps
- conservation priorities (EMP)

ZSL
- monitoring protocols
- training, equipment
- build passes with traps
- reports
Citizen Science eel sites, 2011 to 2017

19 sites, 22 partners, 760 citizen scientists
Eel Management Plan

36 ha of river opened by the ZSL eel project

2441 barriers in the Thames Region
The Riverfly Monitoring Initiative

- Crane
- Hogsmill
- Ravensbourne
- Cray (starts in 2017)
- Wandle (wandle piscators)
• score based on abundance of 8 invertebrate groups
• guide to ecological health at sample sites
• pollution detection
• ccommunication with the Environment Agency
Pollution Detection

**Trigger level (score agreed with the EA that triggers a pollution call in to 0800807060)**

**RMI score (derived from the presence and abundance of key invertebrate species)**

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**Key**

- RMI score (derived from the presence and abundance of key invertebrate species)
- Trigger level (score agreed with the EA that triggers a pollution call in to 0800807060)
CITIZEN CRANE

- river monitoring
- water chemistry
- links to research
- Outfall Safari
- community engagement
Average concentrations of Phosphate & N-NH4, 2015 and 2016
The Outfall Safari
The Outfall Safari- a way to Systematically inspect, record and map the dry weather condition behaviour of surface water outfalls in a river

- identify and rank the impact of polluted outfalls
- gather evidence on the scale of the problem and record out of sight pollution
- greater awareness and reporting of the problem
- Environment Agency and Thames Water involvement

Trained Volunteers + App built in Epicollect = Audit of Outfalls
The Outfall Safari

- Crane
- Hogsmill
- Brent
- Pinn (July)
- Ravensbourne (Autumn)
- Ingrebourne (Autumn)
84km of River, 655 outfalls assessed, 34% are polluting

All rivers Impact Score Summary

<table>
<thead>
<tr>
<th>Impact score</th>
<th>Number of outfalls</th>
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<tbody>
<tr>
<td>0</td>
<td>434</td>
</tr>
<tr>
<td>1-6</td>
<td>134</td>
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<tr>
<td>7-10</td>
<td>52</td>
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<tr>
<td>&gt;11</td>
<td>35</td>
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Water companies are major private investors in water and environmental management in the UK and the business plans introduced in 2020 will play a pivotal role in the stewardship of the environment. The Blueprint for Water believes that nature should be at the heart of water companies’ business plans and has developed a set of key priorities that we want to see reflected in these plans, to benefit both customers and the natural environment that we all cherish.
- diffuse pollution - road runoff
- climate change - water resources management
- emerging chemicals
- resilience
Since 2008: 1,645m or river day-lighted and 3,870m liberated from concrete banks

London river restoration group
Locally focussed decision making and positive community action are at the heart of the Water Framework Directive.

Well designed citizen science projects can help provide the evidence needed to underpin this local decision making and will strengthen relationships between the statutory agencies and trained volunteer groups within catchment partnerships.
This work is made possible with thanks to our funders, partnership organisations and intrepid citizen science volunteers.