



Wetlands for pollution remediation

John Bryden – Head of Improving Rivers

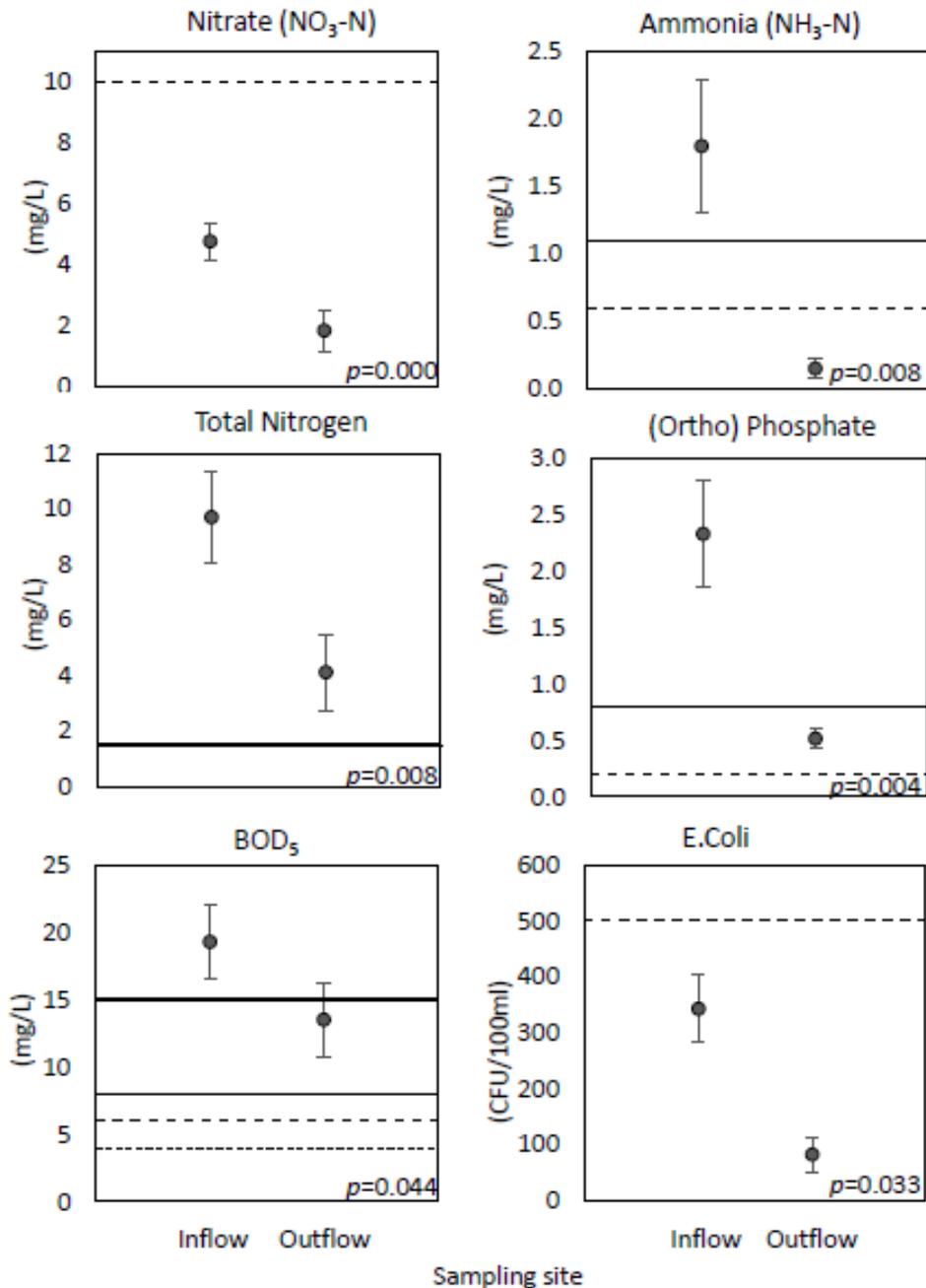
Issues faced by London's rivers?



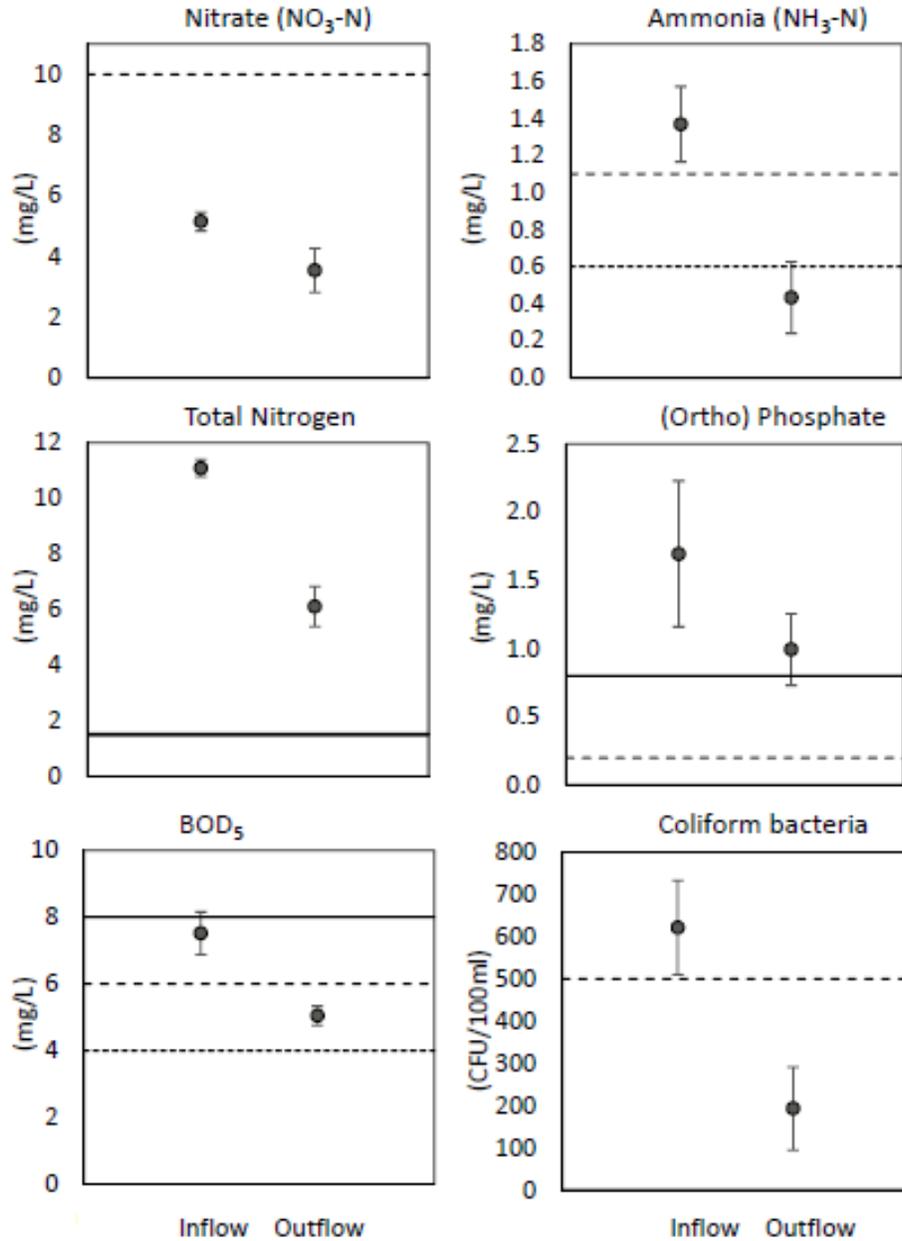
Constructed wetlands



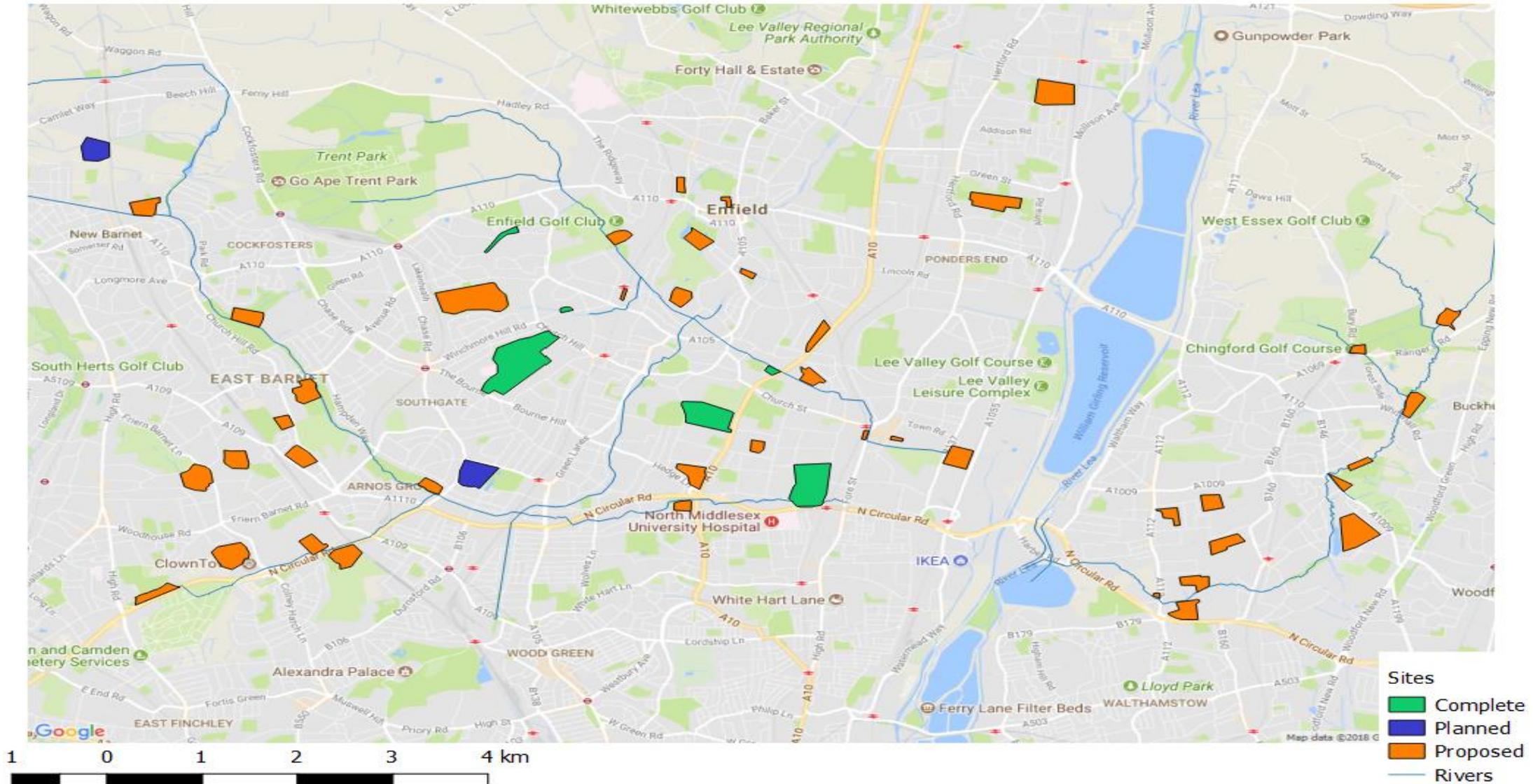
Firs Farm Wetlands



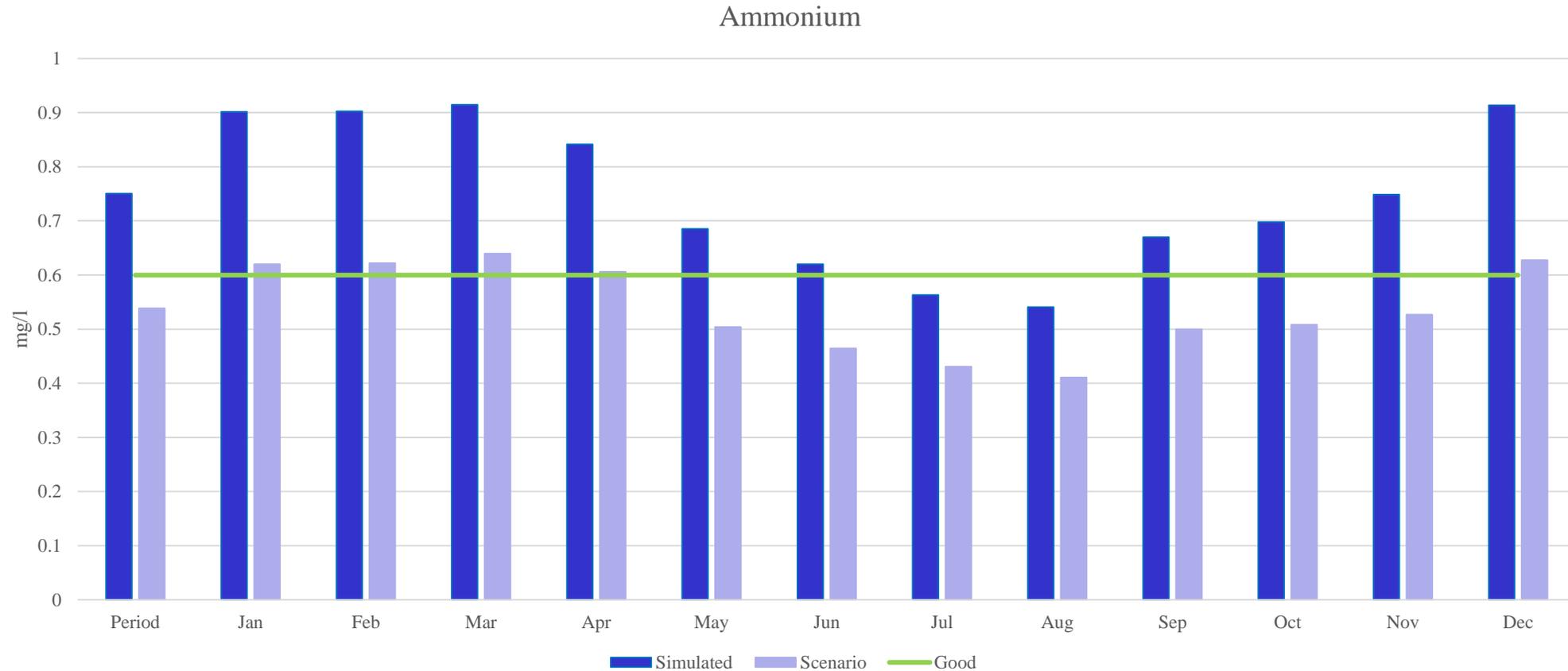
Pymmme Park



Potential Sites



Water Quality Improvements – Catchment Scale, Pymmes Brook



28% reduction of ammonium if 16 wetlands across the catchment were created.



SUPPORTED BY

Funder's

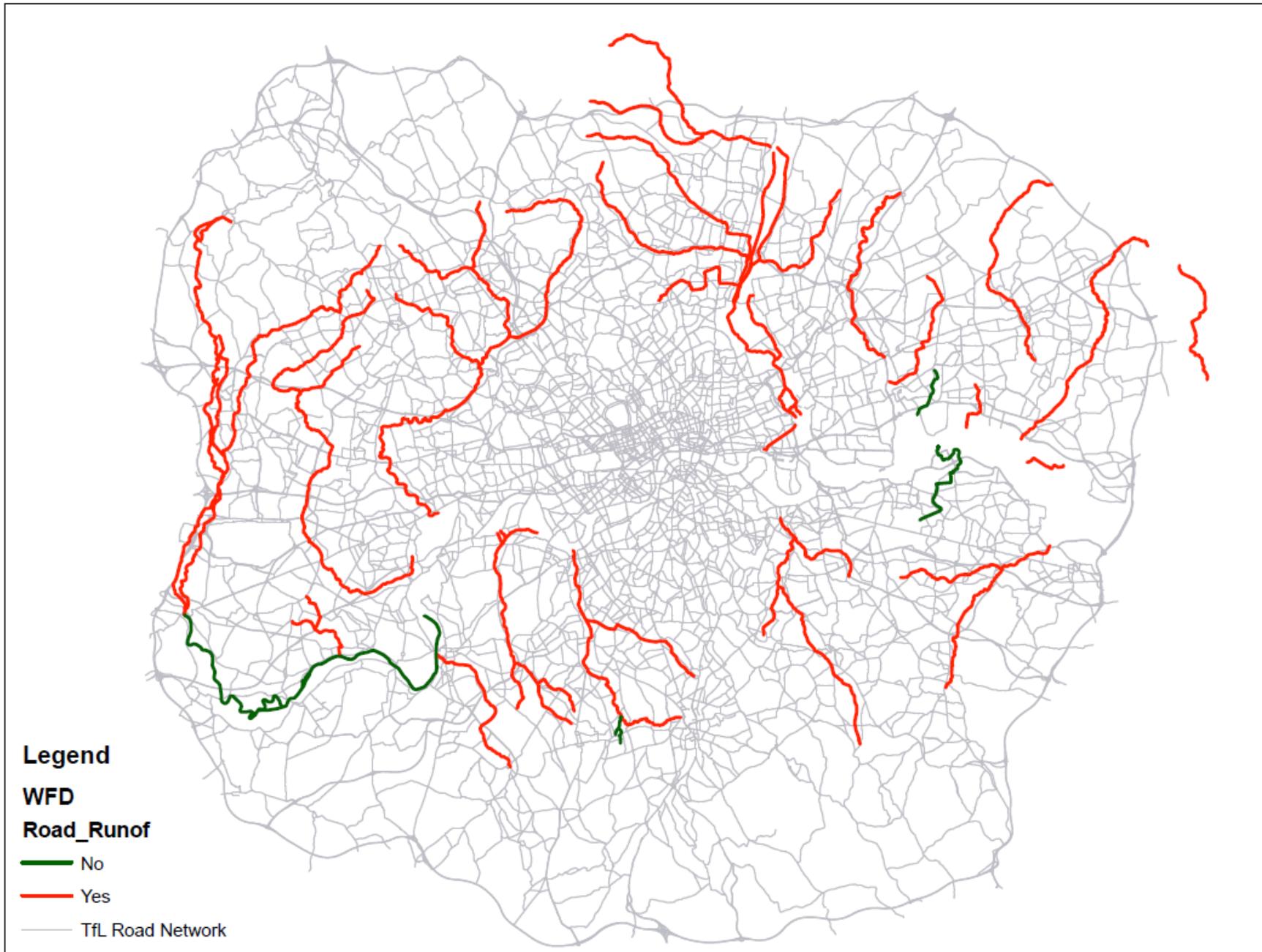
MAYOR OF LONDON



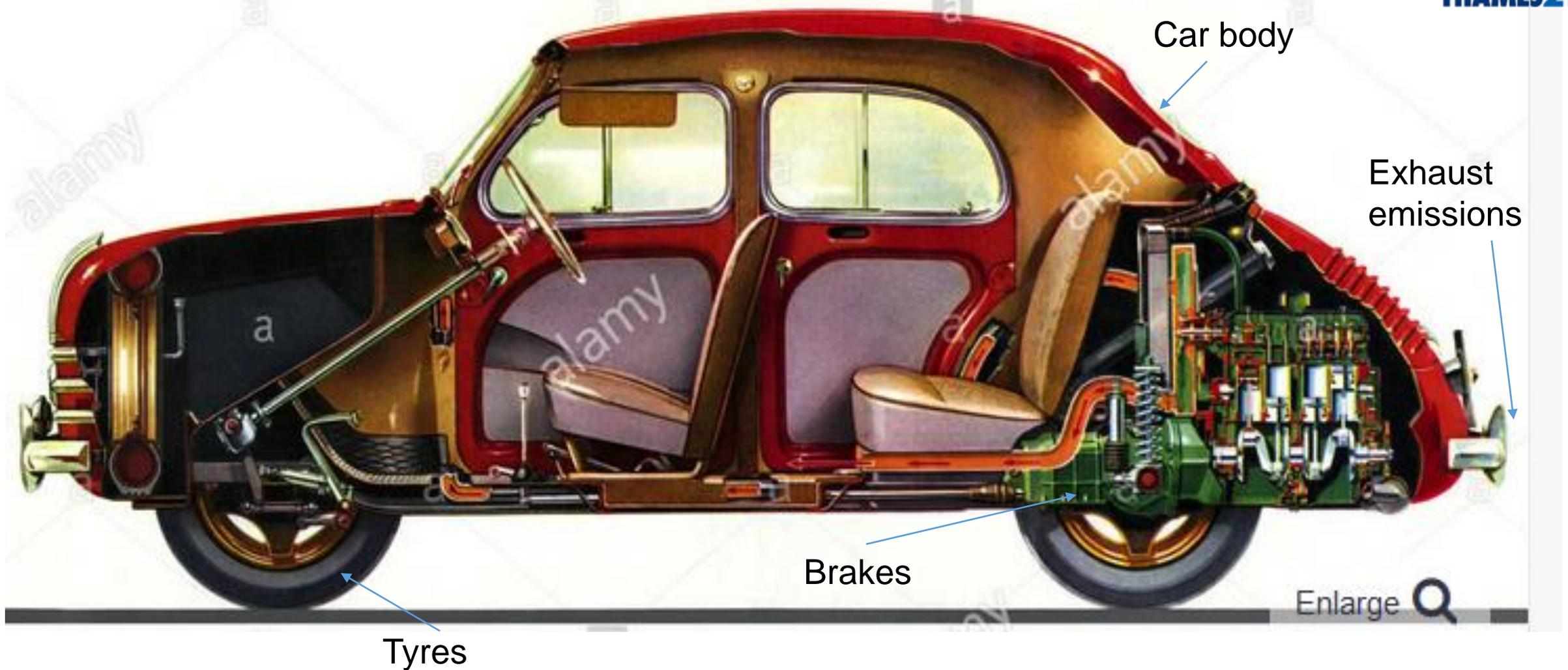
Partner's



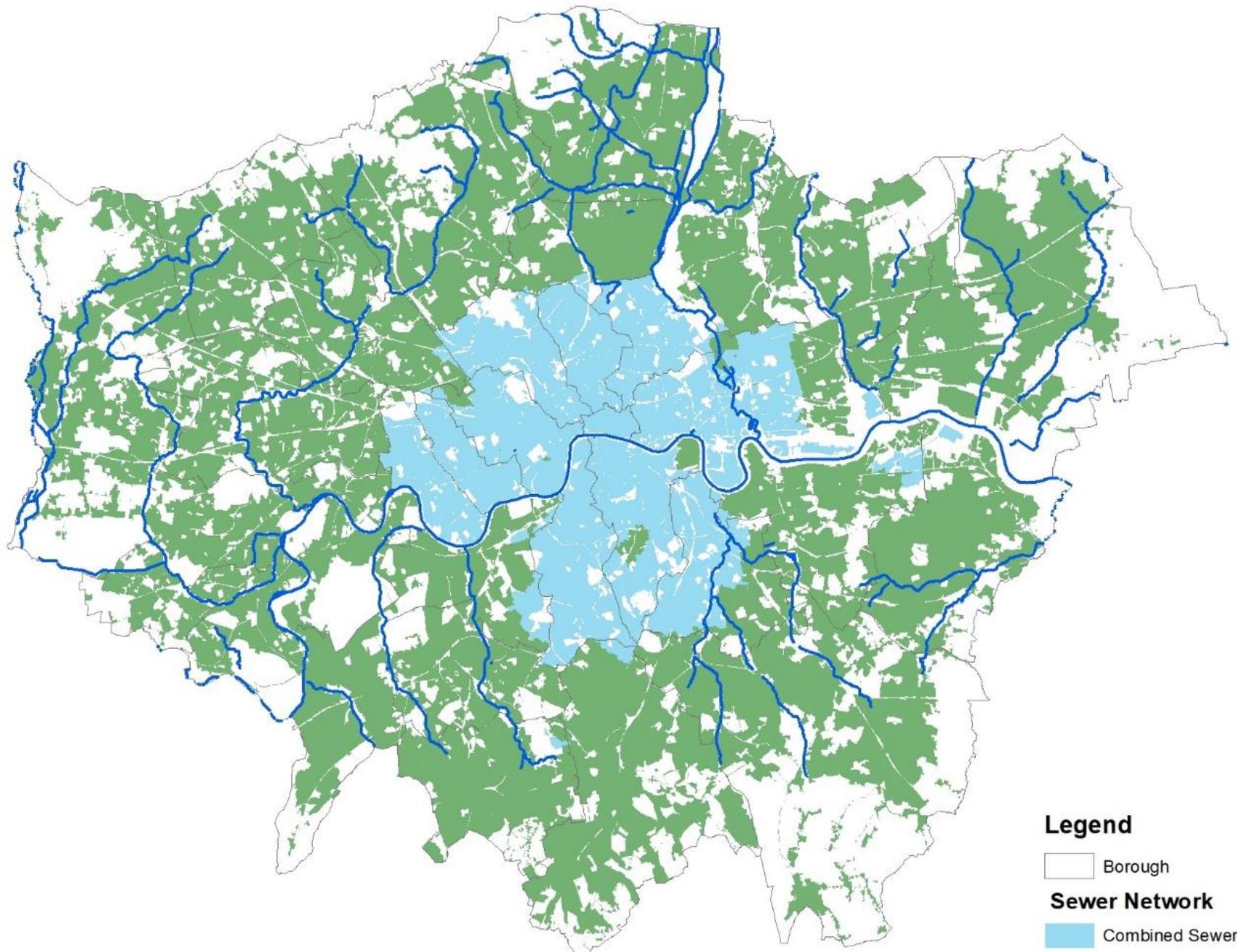
Issue



Sources of traffic pollution



Not just the traffic: road markings, road materials, street furniture, accidental spills, construction erosion



0 1.5 3 6 9 12 Miles

Legend

-  Borough
-  Combined Sewer
-  Separate Sewer

The Interesting bit!

<https://cityhall.maps.arcgis.com/apps/webappviewer/index.html?id=fe0f21d62cd44dfdb4575d2d2884a9ff>

Full report and information can be found -
<https://www.london.gov.uk/what-we-do/environment/climate-change/climate-adaptation/water-quality>

Political impact

Mayor of London, Sadiq Khan said: “This report provides clear evidence that pollution from the surface of London’s roads is posing a significant risk to our rivers. We’re working with partners to find solutions that prevent water contamination, but the Government must step up to provide the Environment Agency and highways authorities with the appropriate funding for these measures to properly protect the capital’s rivers.”

SUPPORTED BY

MAYOR OF LONDON



TRANSPORT
FOR LONDON

From Pollution concentrations to treatments systems

- Decision support system to guide what sort of roadside SuDs should be deliver to treat the pollution loading.
- Identification of locations where potential constructed wetlands could be developed to treat pollution at downstream locations.

Questions?