

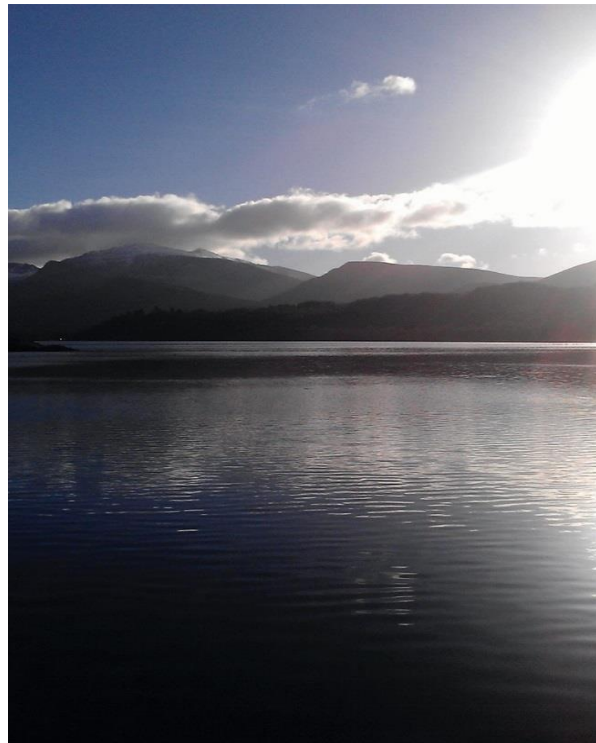
River Wye – Environmental Improvements under WFD

Gail Davies
10 July 2018
Wye Catchment Partnership



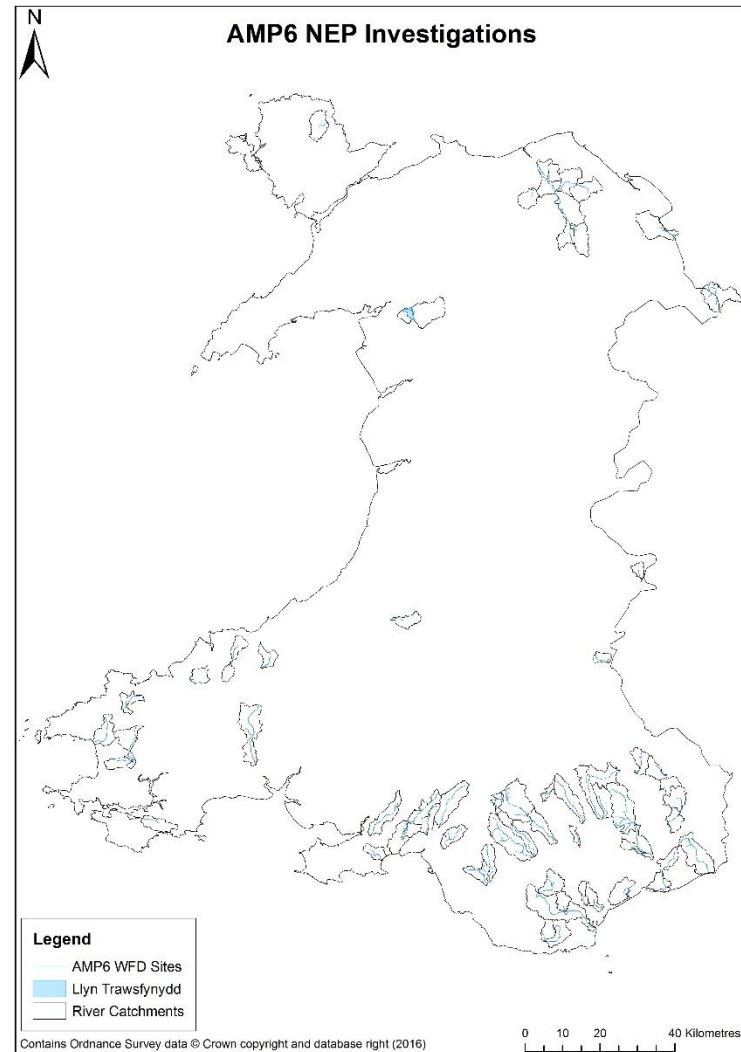
Our environmental regulators, Natural Resources Wales and Environment Agency, produce a National Environment Programme (NEP) every 5 years.

The NEP outlines what improvements we need to make to comply with new or amended legislation and investigations to inform the requirements in subsequent business planning periods.



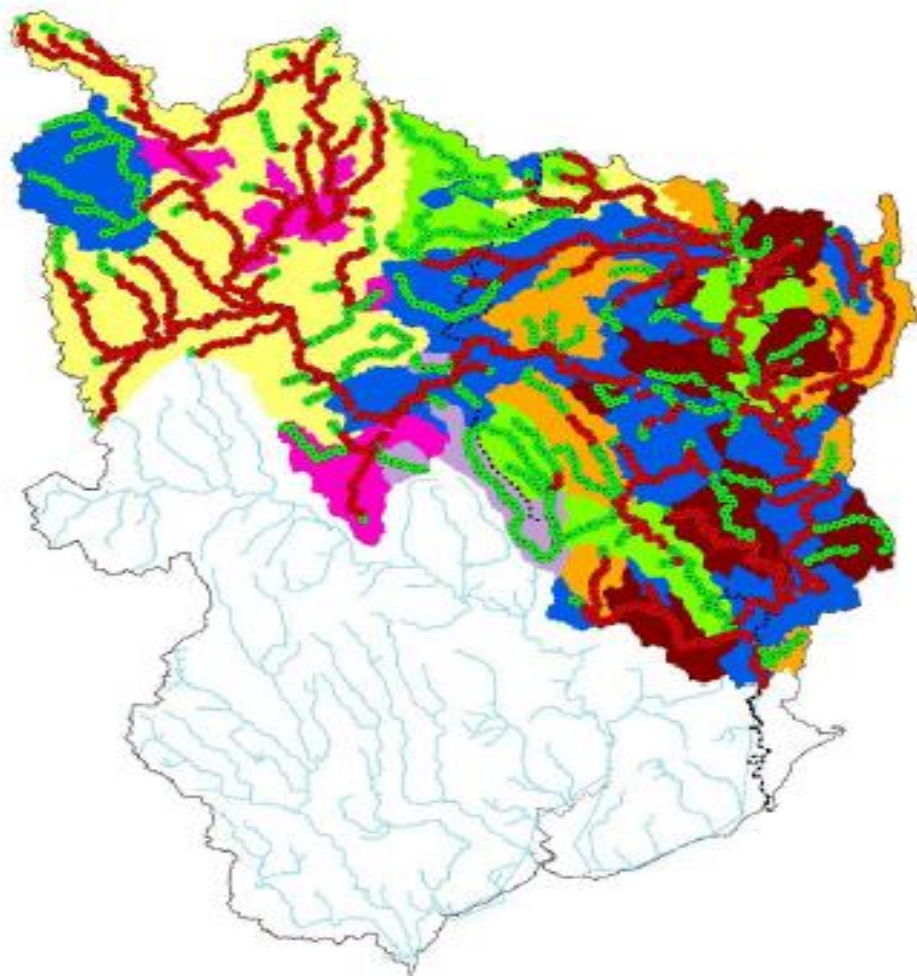
WFD Investigations

- 60 investigations across Wales
- Combination of monitoring, EDM installation and modelling



- **River Wye has been investigated using SAGIS.**
- **To identify areas in which compliance with water quality standards is or may become at risk under the WFD**
- **Simulate the extent to which controls of phosphate inputs from DCWW's assets might address 'fair share'**





..... England-Wales Boundary

— Rivers

Compliance

● Pass

● Fail

Standards (mg/l)

0.010 - 0.016

0.017 - 0.025

0.026 - 0.039

0.040 - 0.053

0.054 - 0.065

0.066 - 0.078

0.079 - 0.092

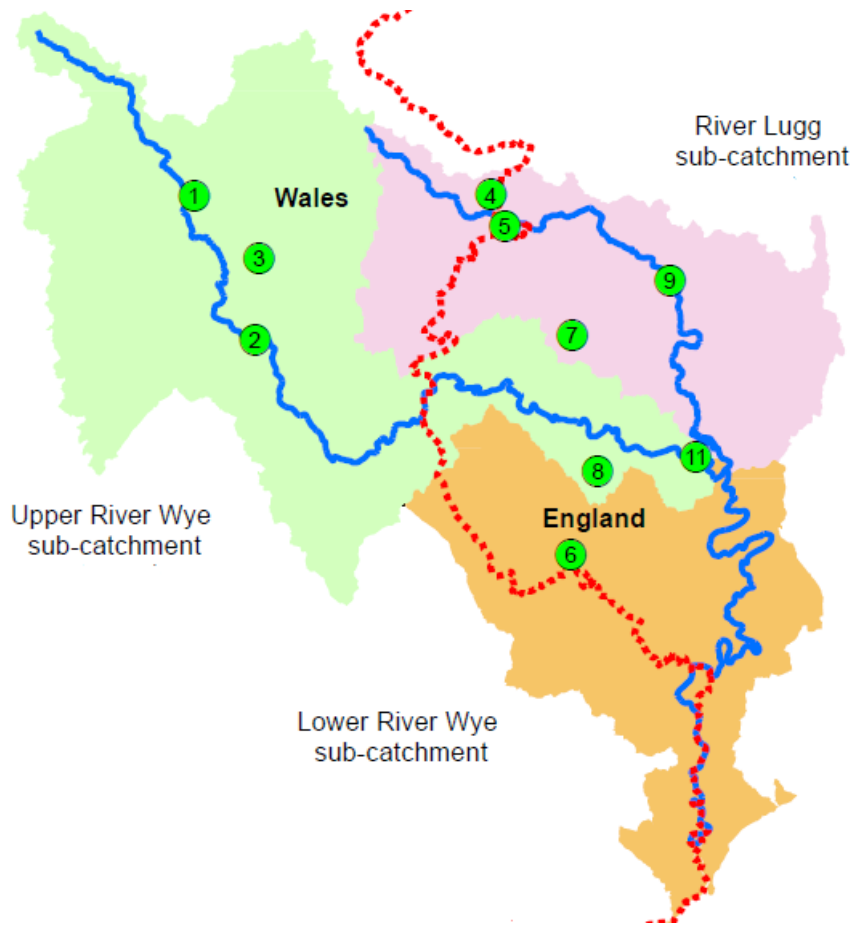
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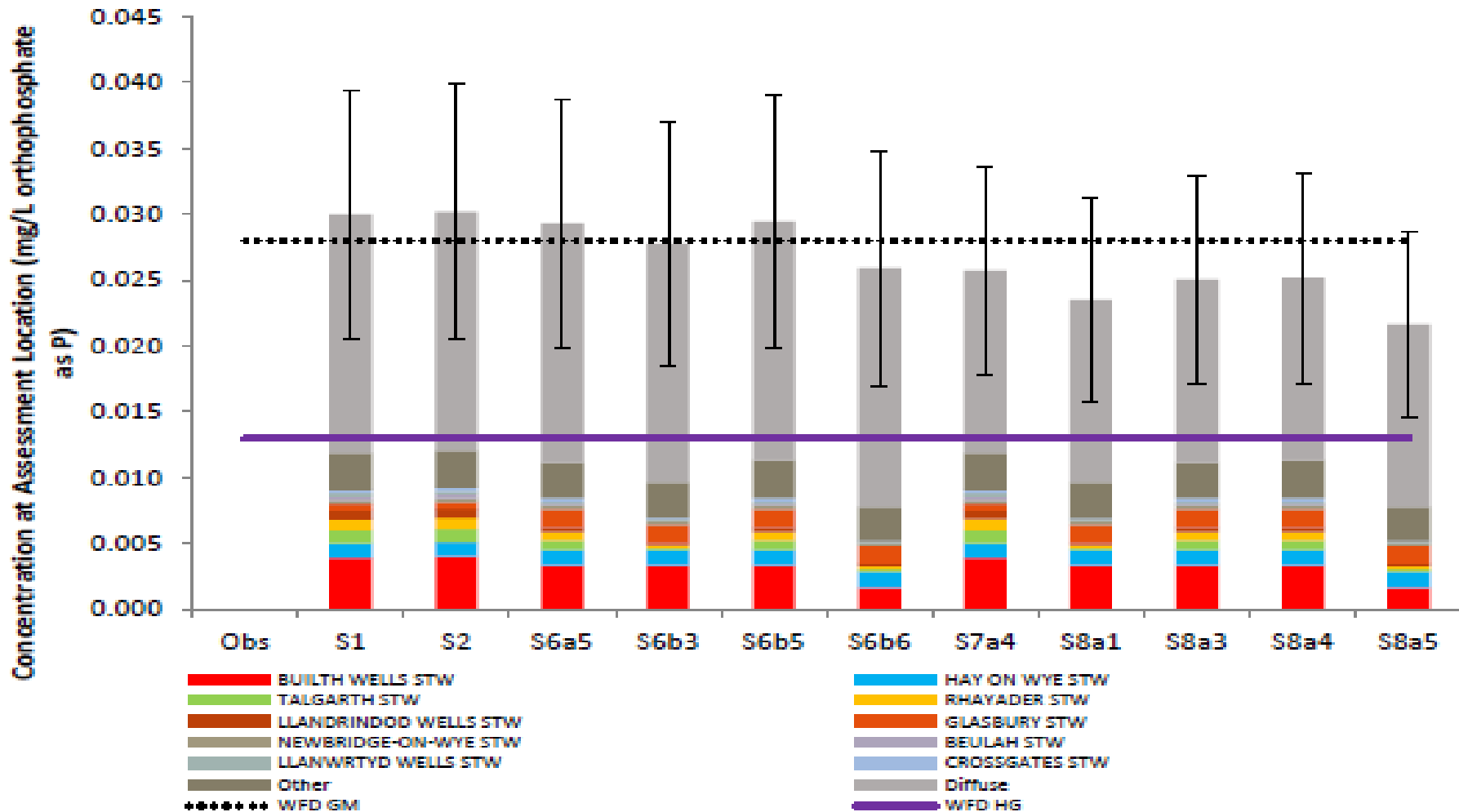
0 5 10 20
Kilometers

ATKINS

WwTW Improvements linked to the NMP

- 1 Rhayader
- 2 Builth Wells
- 3 Llandrindod Wells
- 4 Norton
- 5 Presteigne
- 6 Pontrilas
- 7 Weobley
- 8 Kingstone and Madeley
- 9 Leominster
- 10 Eign
- 11 Rotherwas





Investigations to inform Future Investment

Wye –small WwTWs that have never been measured, coupled with phosphorus monitoring issues. Therefore too many unknowns to set fair share permits. We will monitor these assets and remodel once we have actual data.

Other investigations looking at:

- Storm Overflow Assessment Framework
- Invasive Non-Native Species (INNS)
- Chemicals



- **Undertaking investigations**, with Environment Agency and Natural Resources Wales, to help determine the most cost-effective and sustainable solutions for future AMPs.
- **Increasing monitoring** capability and understanding of how our assets are impacting the environment.
- **Improvement Activities** to meet statutory obligations where it has been shown there is an impact on the environment.



Monitoring Installation programme

Monitors to be installed at WwTWs

- For measuring Flow to Full Treatment
- For first time flow monitoring at WwTWs due to growth within the sewerage catchment where flows likely to exceed 50m³ per day



Summary

- DCWW remain committed to minimising our impact on the environment
- Improvements need to be based on sound evidence and deliver substantive outcomes
- Continue working together to deliver outcomes for the NMP



Partnership mechanisms:

1. WFD Third Sector Funding
2. Biodiversity Funding



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Dŵr Cymru's Water Framework Directive (WFD) funding scheme provides financial contributions to not-for-profit organisations for projects that will deliver improvements to Welsh rivers, lakes and waterways. The aim is to create a more vibrant and healthy environment for people and wildlife.

The initial £400,000 scheme was launched in July 2012 and was created to match a fund operated by Natural Resources Wales (NRW). Recognising the benefit of the scheme, Dŵr Cymru added a further £150,000 in July 2013. The funding scheme aims to help implement the European Union's Water Framework Directive within Dŵr Cymru's operational area. The directive aims to improve and ensure good quality of rivers, lakes, transitional waters, and coastal waters in all member states of the European Union.

The Independent Environmental Advisory Panel (IEAP) has been advising Dŵr Cymru on the merits of projects submitted for funding. Further information regarding the IEAP can be found [HERE](#).