



**Cyfoeth  
Naturiol**  
Cymru  
**Natural  
Resources**  
Wales

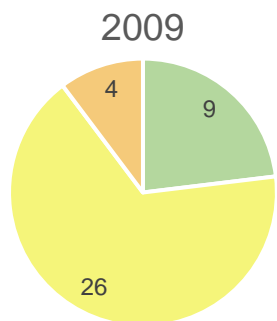


**Current Status of the Teifi**

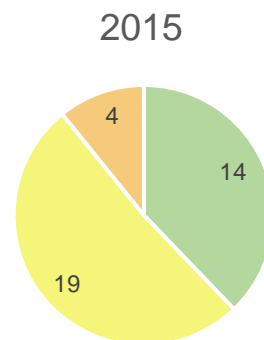
**Dave Johnston, Environmental Reporting Team Leader**

# Teifi – Water Framework Directive Ecological Status 2009 – 2021

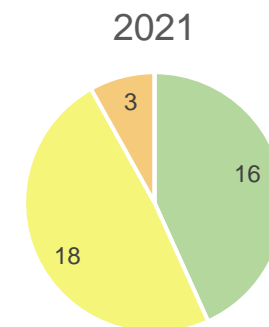
## River water bodies



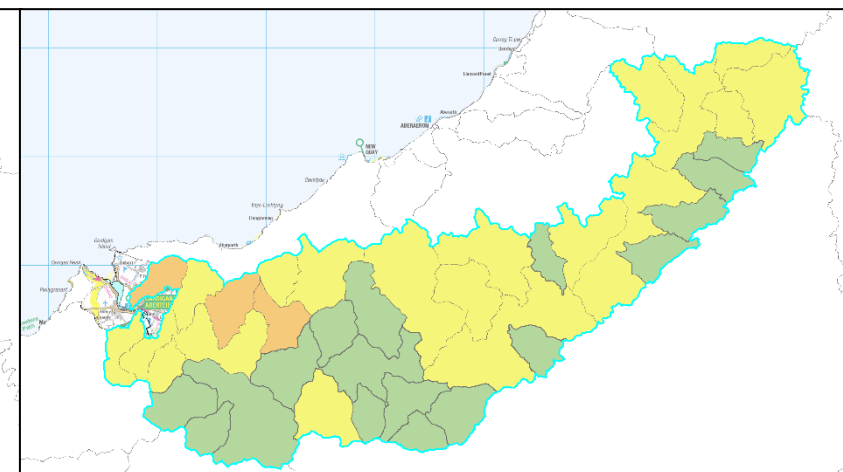
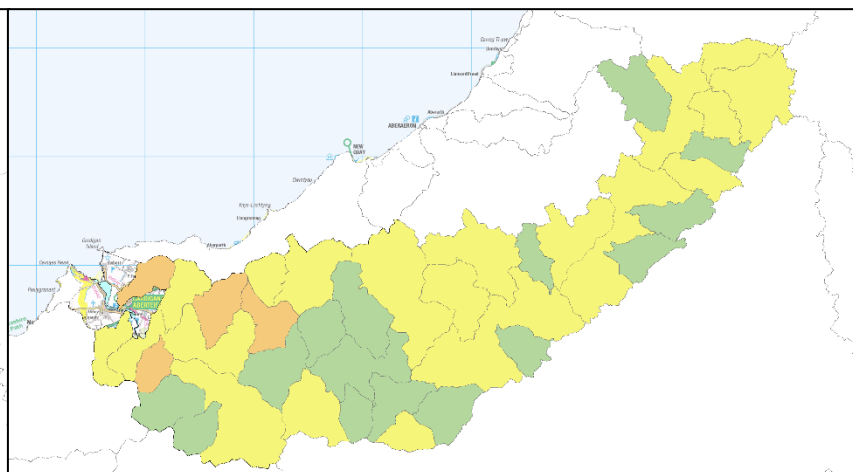
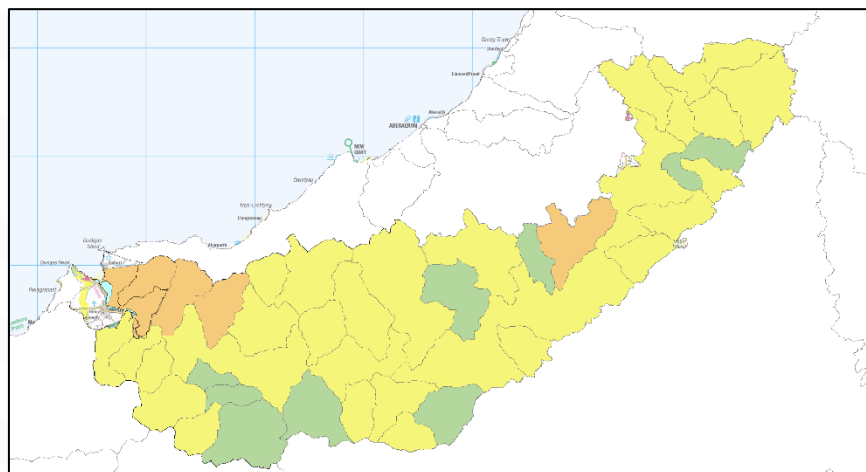
■ High ■ Good ■ Moderate ■ Poor ■ Bad



■ High ■ Good ■ Moderate ■ Poor ■ Bad



■ High ■ Good ■ Moderate ■ Poor ■ Bad



# Teifi – Water Framework Directive Element Classification 2021

## River water bodies

### Element results (Chemicals combined)

■ High ■ Good ■ Moderate ■ Poor ■ Bad

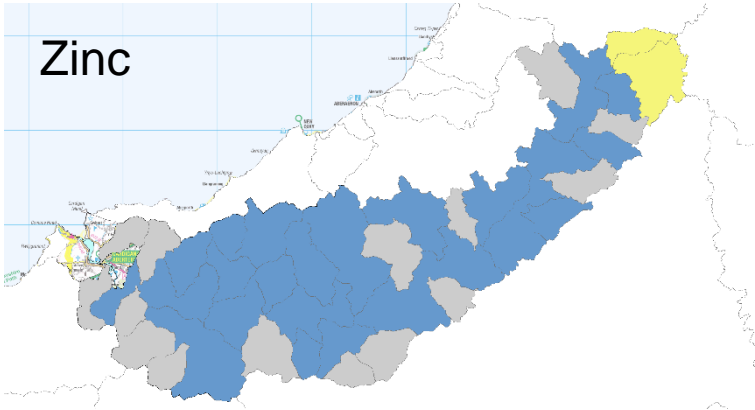


### 2021 Teifi River water bodies failing elements

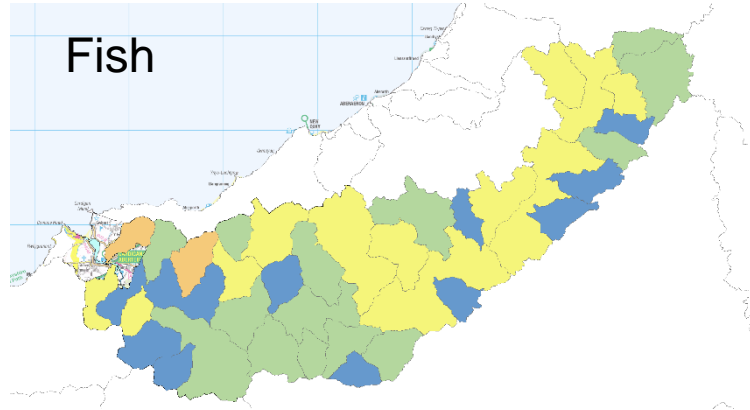


# Teifi – Water Framework Directive Element Classification 2021

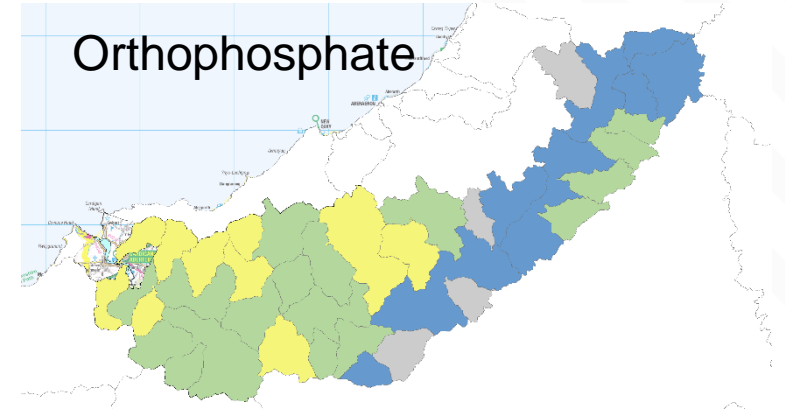
Zinc



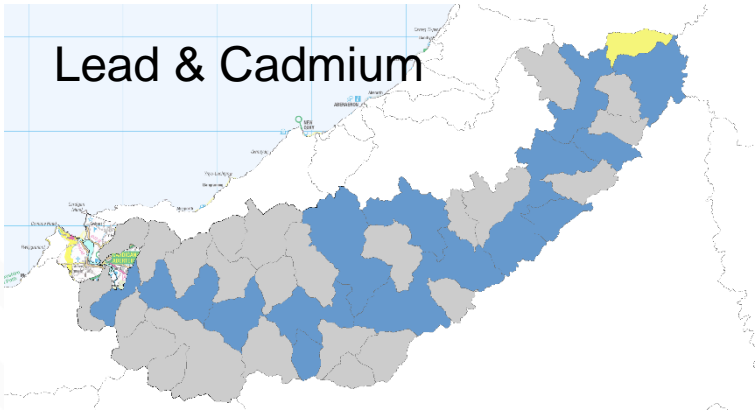
Fish



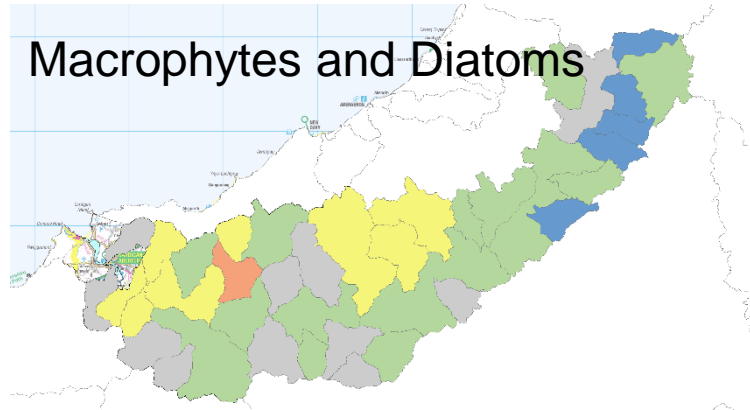
Orthophosphate



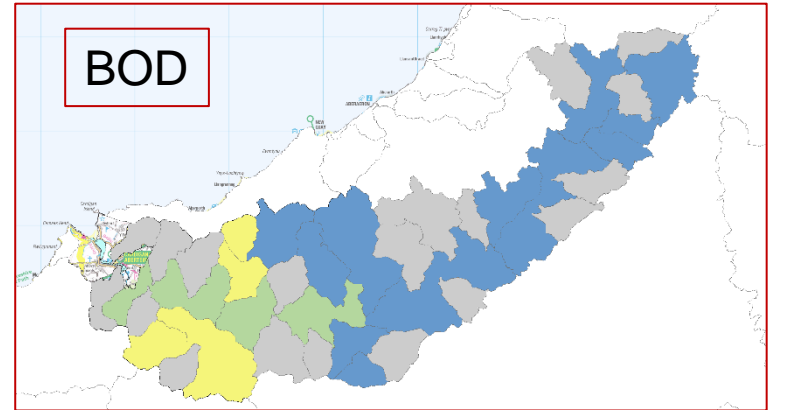
Lead & Cadmium



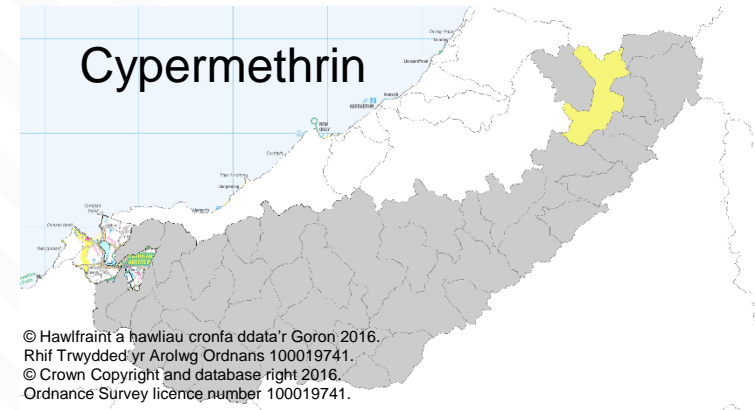
Macrophytes and Diatoms



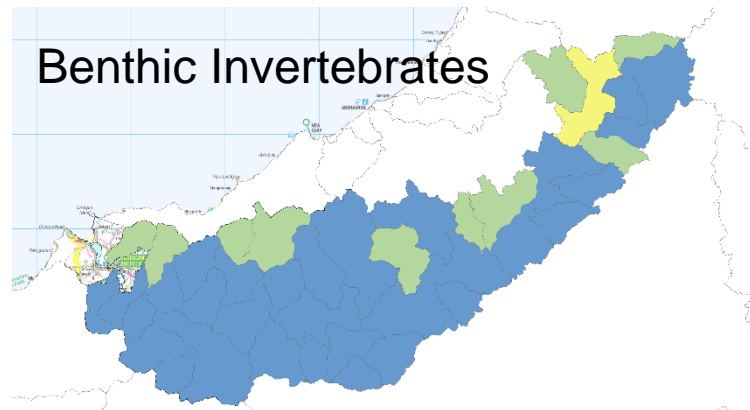
BOD



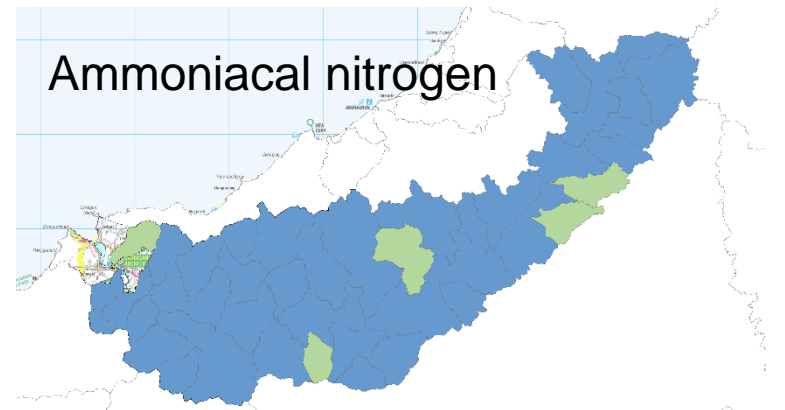
Cypermethrin



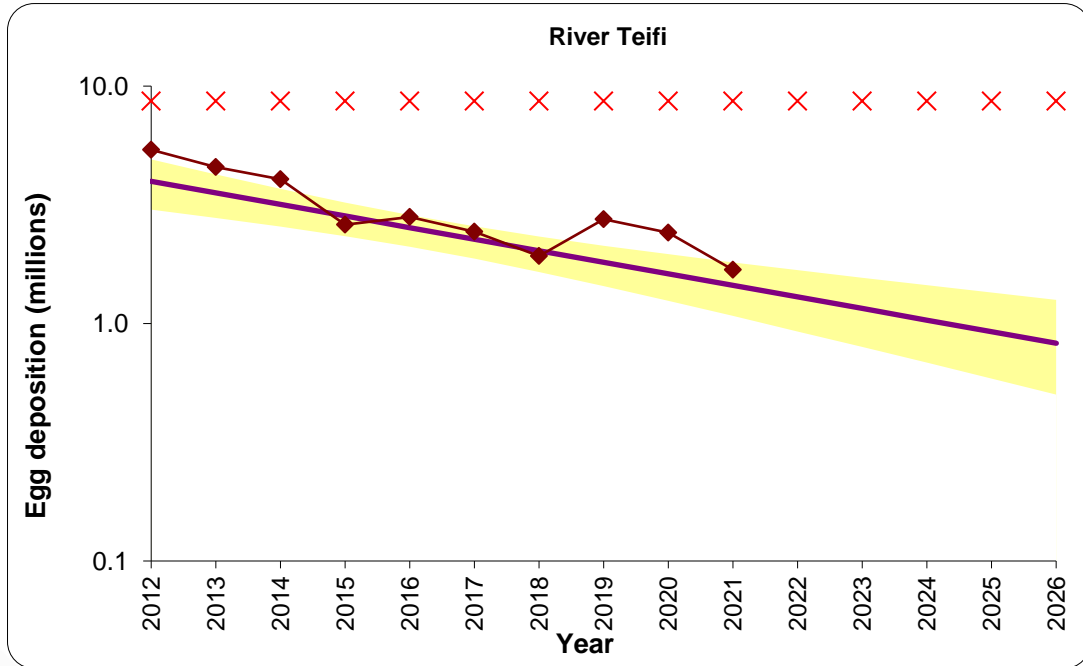
Benthic Invertebrates



Ammoniacal nitrogen



# Teifi fisheries



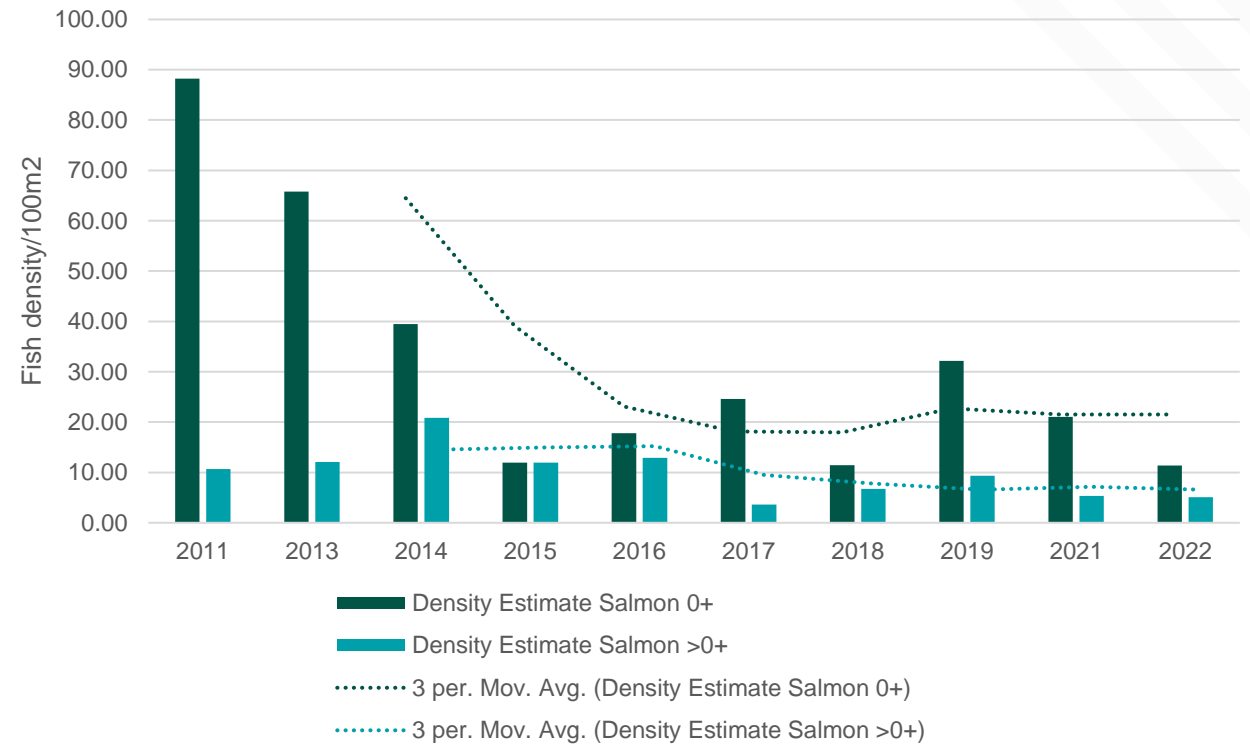
**Salmon Egg Deposition.** The minimum egg deposition target for the Teifi is set at 8.65 million eggs, represented by the red crosses on the graph

Current number of eggs being deposited puts stocks - **at risk**.

In 5 years' time the predicted status of salmon stocks will be - **at risk**.

Based on current and future trends, the Teifi salmon stock will continue to **decline**

Teifi Juvenile Salmon Densities 2011-2022



**Juvenile salmon** densities recorded at the annual monitoring sites on the River Teifi have shown a downward trend in the last 8 years,



# Teifi Estuary



## WFD

Overall status	Moderate
Ecological Status	Moderate
Eco – Biological	Good (Saltmarsh – uncertain)
Eco – Phys-chem	Moderate
Chemical Status	DIN – Dissolved Inorganic nitrogen High

## Bathing Water Poppit West



Excellent bathing water quality



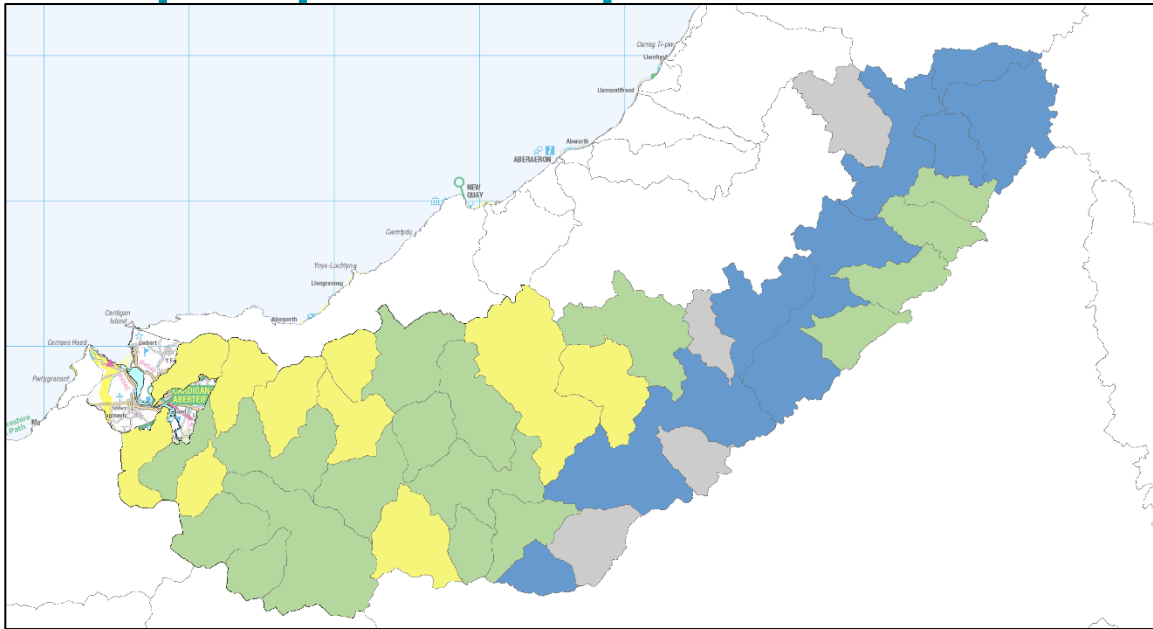
# Teifi SAC & SSSI Features

## Protected Sites Baseline Assessment 2020

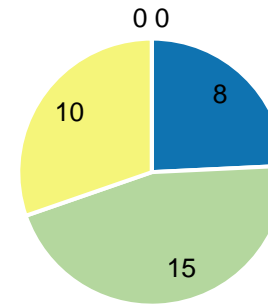
SAC Feature name	Indicative condition	Confidence
Atlantic Salmon - <i>Salmo salar</i>	Unfavourable	High
Brook Lamprey - <i>Lampetra planeri</i>	Favourable	Low
Bullhead - <i>Cottus gobio</i>	Unknown	Unknown
Clear-water lakes or lochs with aquatic vegetation and poor to moderate nutrient levels	Favourable	High
Floating Water-plantain - <i>Luronium natans</i>	Favourable	High
Otter - <i>Lutra lutra</i>	Unfavourable	Medium
River Lamprey - <i>Lampetra fluviatilis</i>	Favourable	Low
Rivers with floating vegetation often dominated by water-crowfoot	Unfavourable	Medium
Sea Lamprey - <i>Petromyzon marinus</i>	Unfavourable	Medium

SSSI Feature name	Indicative condition	Confidence
a blackfly - <i>Simulium morsitans</i>	Favourable	Medium
Afon Teifi at Cenarth - Fluvial geomorphology	Favourable	High
Afon Teifi at Cors Caron - Fluvial geomorphology of Wales	Favourable	Low
Assemblage of RDB and/or Nationally Scarce and/or Atlantic-Western British bryophytes	Unknown	Unknown
Atlantic Salmon - <i>Salmo salar</i>	Unfavourable	High
Breeding bird assemblage of lowland open waters and their margins	Favourable	High
Brook Lamprey - <i>Lampetra planeri</i>	Favourable	Low
Brown Hairstreak - <i>Thecla betulae</i>	Unknown	Unknown
Bullhead - <i>Cottus gobio</i>	Unknown	Unknown
Cetti's Warbler - <i>Cettia cetti</i> - Breeding	Unknown	Unknown
Club-tailed Dragonfly - <i>Gomphus vulgatissimus</i>	Unfavourable	Medium
Cornish Moneywort - <i>Sibthorpia europaea</i>	Unfavourable	Low
Floating Water-plantain - <i>Luronium natans</i>	Favourable	High
Hybrid Pondweed - <i>Potamogeton x olivaceus</i>	Unknown	Unknown
Marshy grassland	Unknown	Unknown
Multi-fruited River Moss - <i>Cryphaea lamyana</i>	Unknown	Unknown
Other: Marginal/inundation	Unknown	Unknown
Otter - <i>Lutra lutra</i>	Unfavourable	Medium
River Lamprey - <i>Lampetra fluviatilis</i>	Favourable	Low
Running water	Unfavourable	Medium
Sea Lamprey - <i>Petromyzon marinus</i>	Unfavourable	Medium
Semi-natural woodland	Unknown	Unknown
Spotted Sedge - <i>Carex punctata</i>	Unknown	Unknown
Standing water	Favourable	High
Swamp	Unknown	Unknown
Toadflax Leaf Beetle - <i>Chrysolina sanguinolenta</i>	Unfavourable	Medium
Water Sedge - <i>Carex aquatilis</i>	Unknown	Unknown

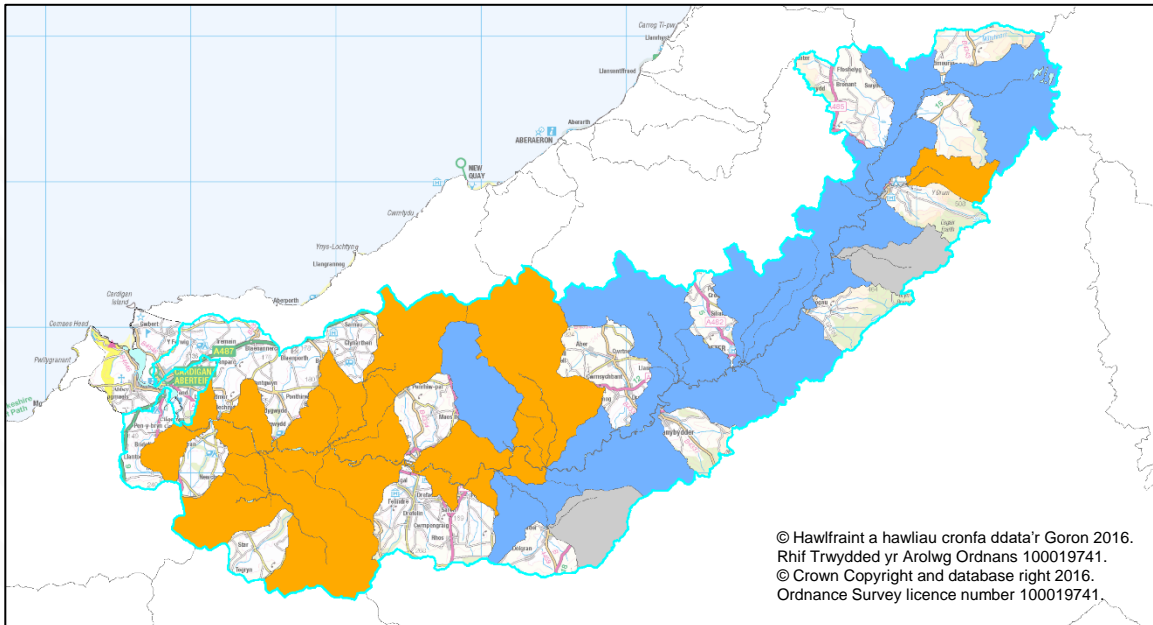
# Orthophosphate Compliance



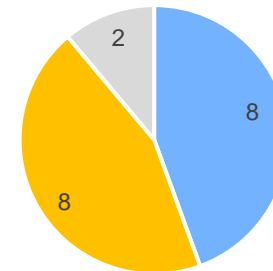
WFD Orthophosphate 2021



■ High ■ Good ■ Moderate ■ Poor ■ Bad



SAC Orthophosphate 2021

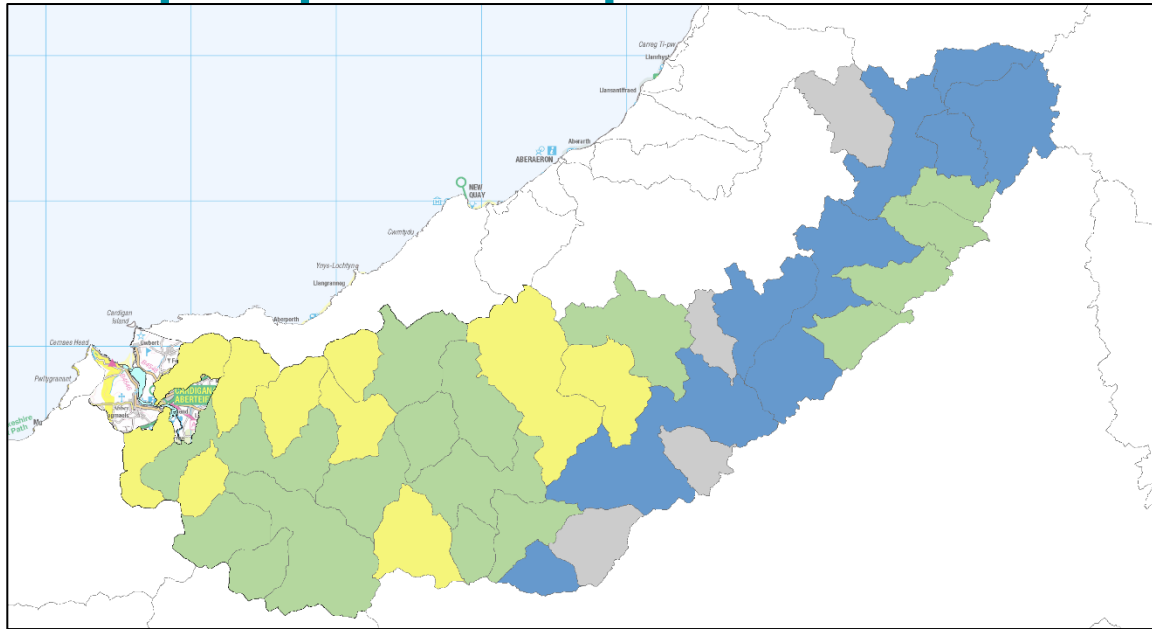


■ Comply ■ Fail ■ Not assessed

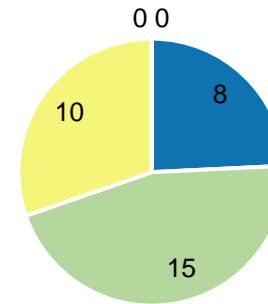
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Rhif Trwydded yr Arolwg Ordnans 100019741.  
© Crown Copyright and database right 2016.  
Ordnance Survey licence number 100019741.



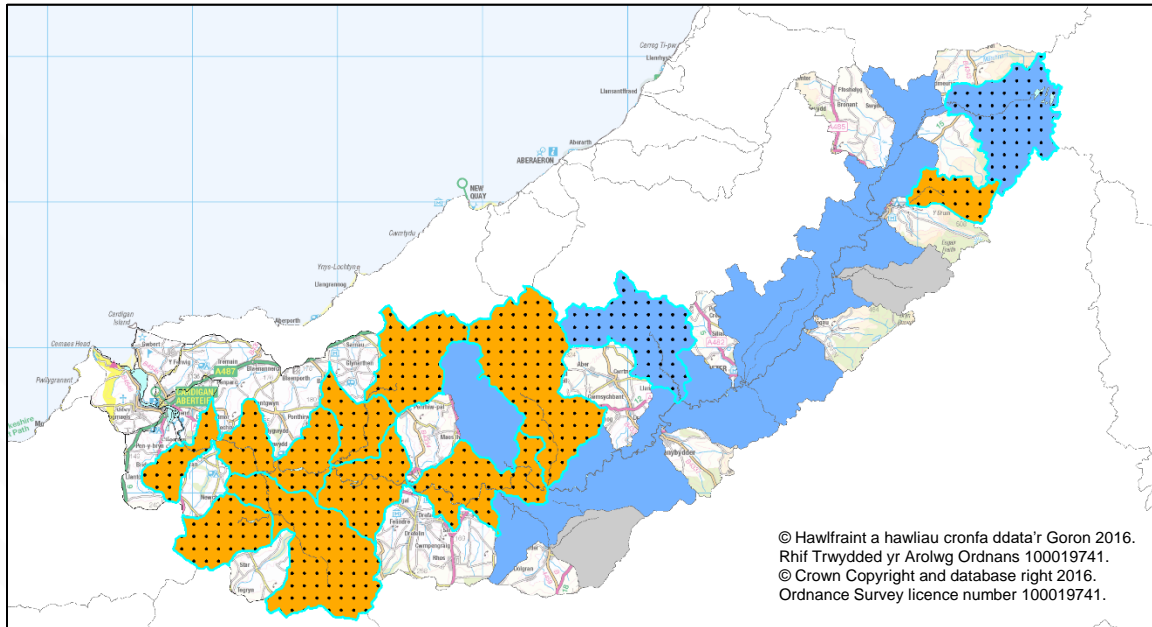
# Orthophosphate Compliance



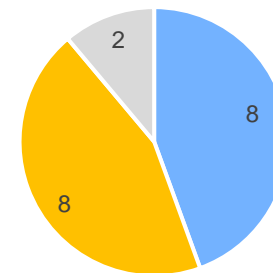
WFD Orthophosphate 2021



■ High ■ Good ■ Moderate ■ Poor ■ Bad

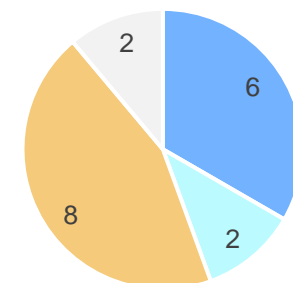


SAC Orthophosphate 2021



■ Comply ■ Fail ■ Not assessed

Orthophosphate compliance with confidence



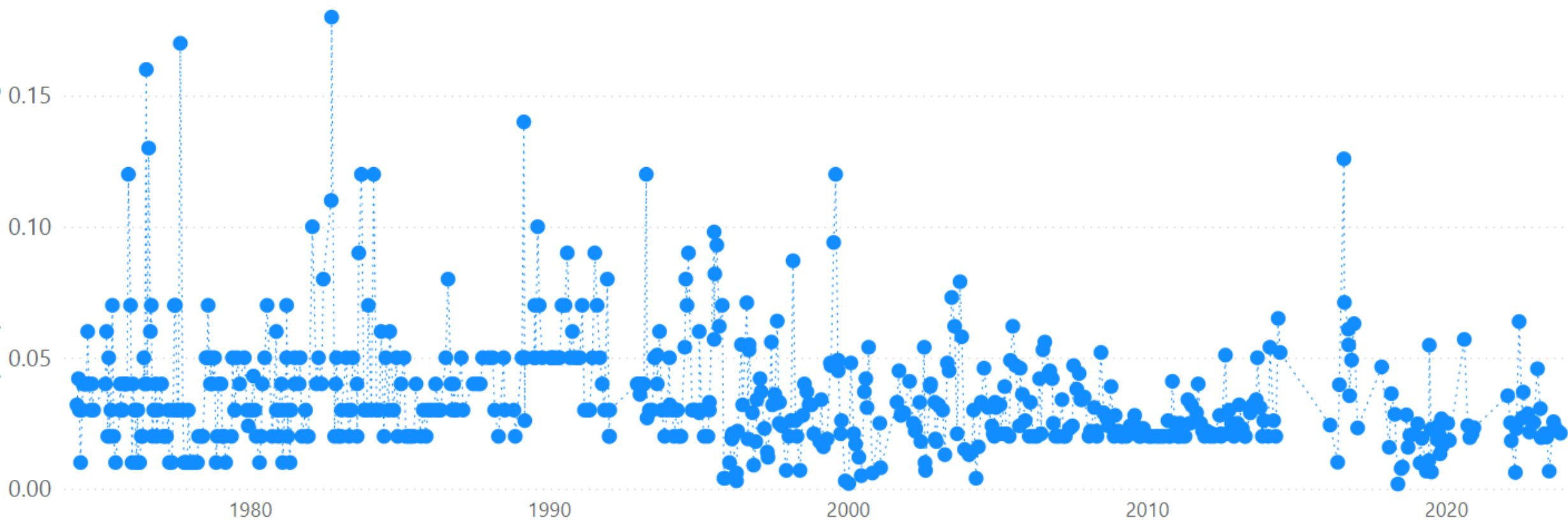
■ certain pass  
 ■ uncertain pass  
 ■ uncertain fail  
 ■ Not assessed

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 Ordnance Survey licence number 100019741.

# Teifi at Llechryd Bridge Orthophosphate $\text{mg/l}^{-1}$ P. 1974 - 2022

Station Number ● 34401

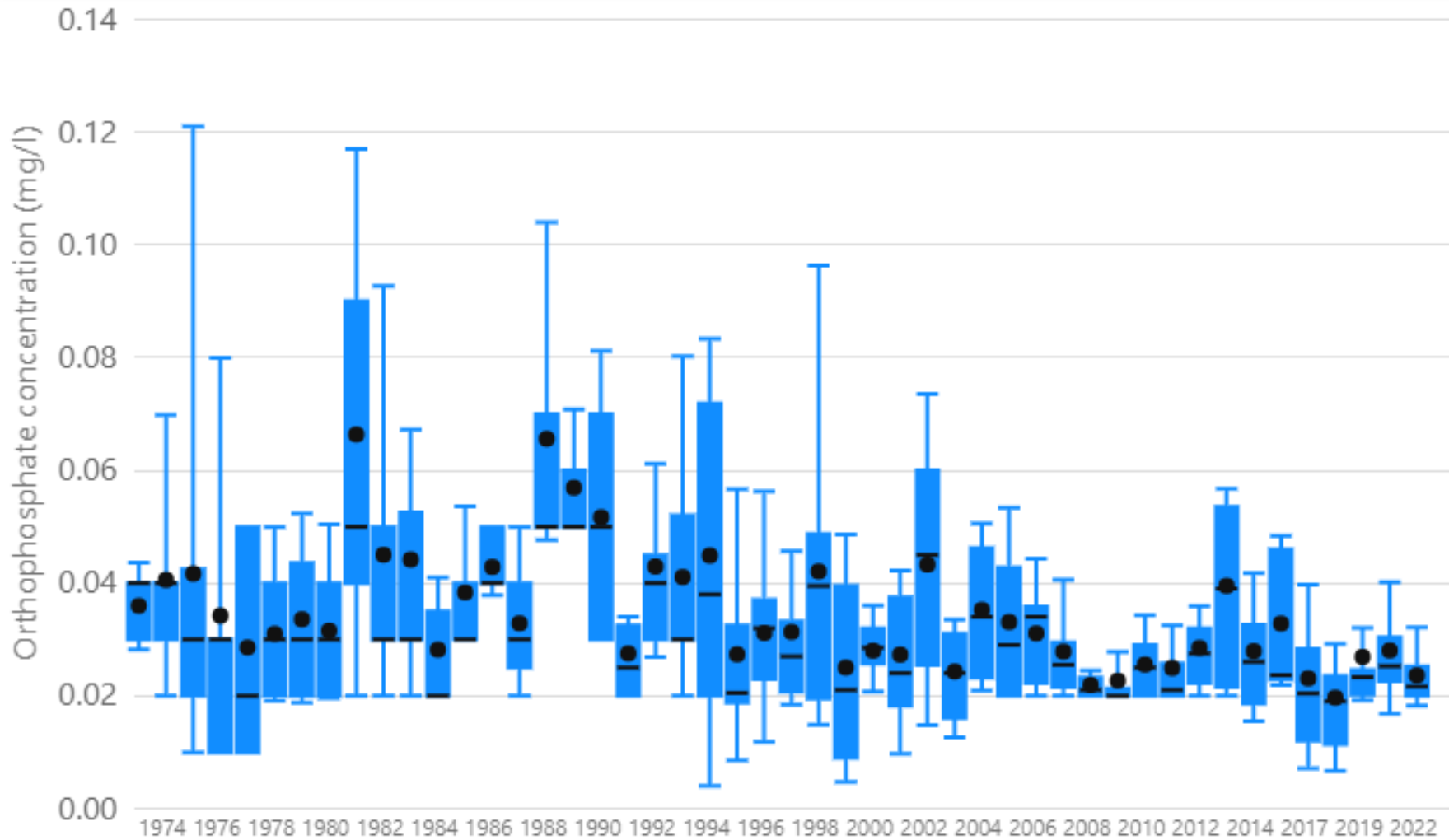
Orthophosphate concentration (mg/l)



# Teifi at Llechryd Bridge Orthophosphate $\text{mg l}^{-1}$ P.

## Annual means 1974 - 2022

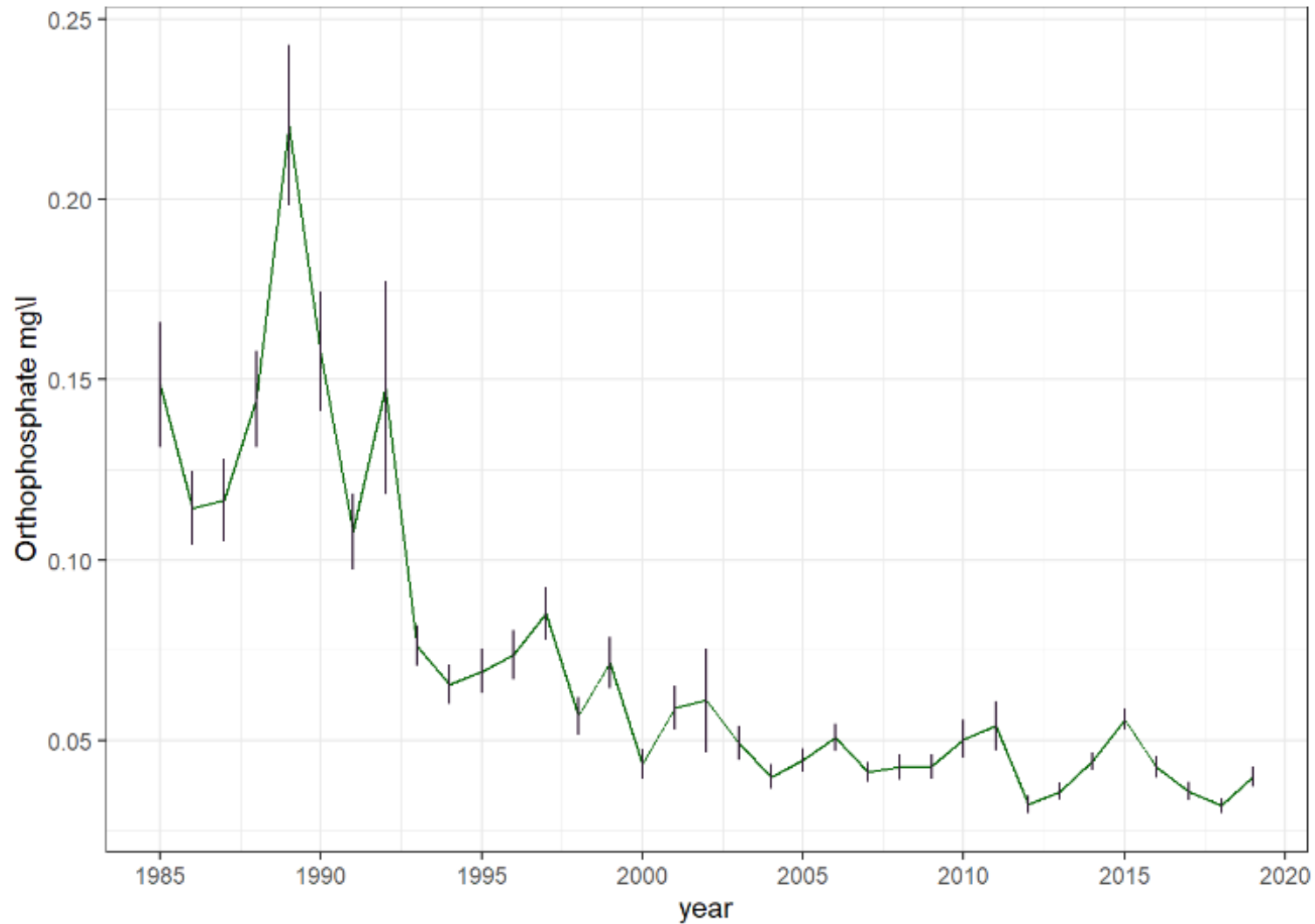
Mean (dot), Median (line), Quartiles (box), 95% confidence intervals (whiskers)



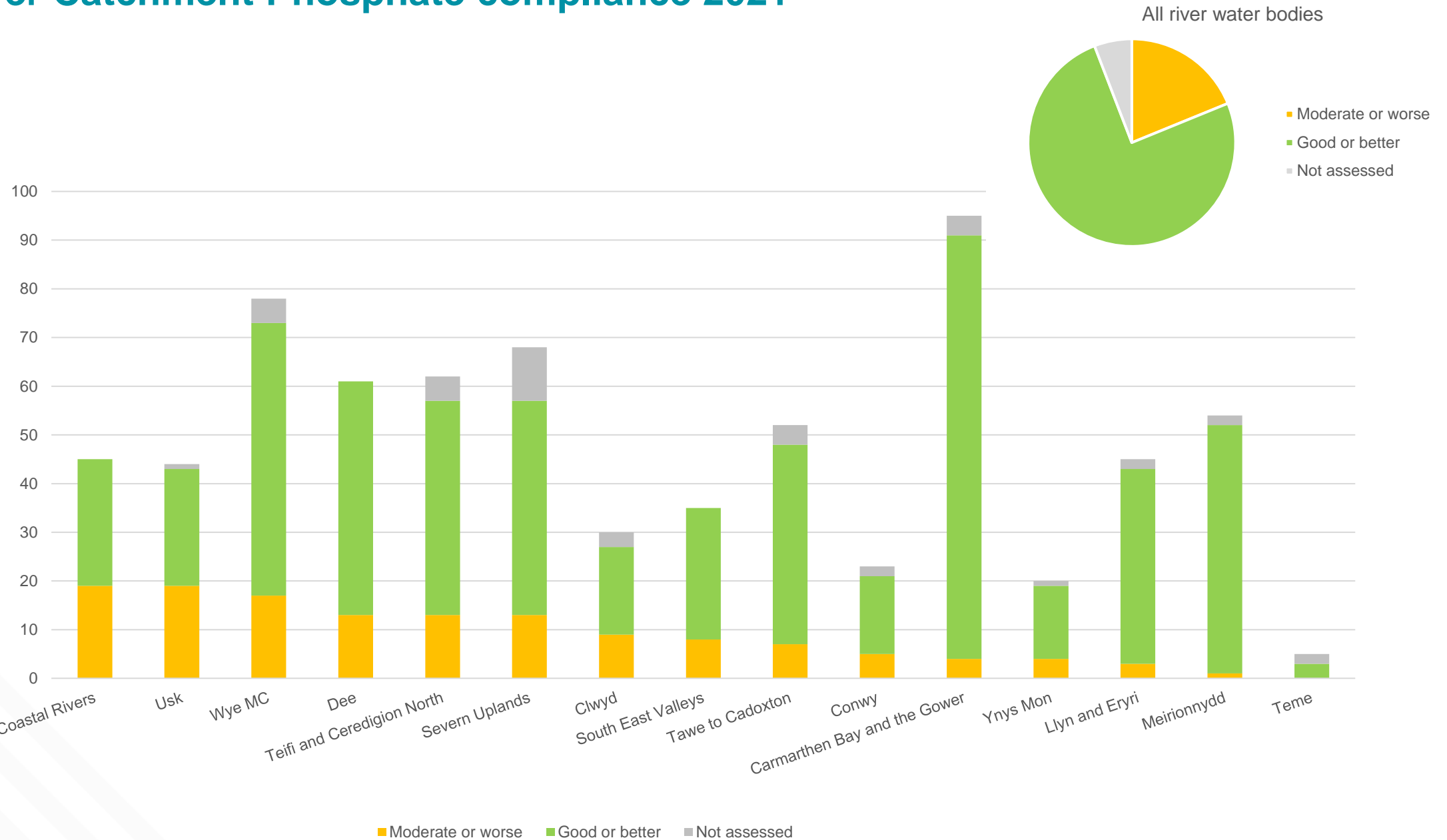
### Orthophosphate $\text{mg l}^{-1}$ P

Data as of 10/11/23, 05:25  
Filtered by **SAC Name** (is Afon Teifi / River Teifi), **WFD\_River** (is GB110062043563 - Teifi - Afon Ceri to estuary), **Parameter Number, Name** (is 0180, Orthophosphate, reactive as P), **Display Name** (is TEIFI LLECHRYD ROAD BRIDGE/34401), **Station Name** (is not (Blank)), **Parameter Name** (is not (Blank))

## All Wales Harmonised monitoring points Annual average orthophosphate reactive (as P) concentrations (1985 to 2019)

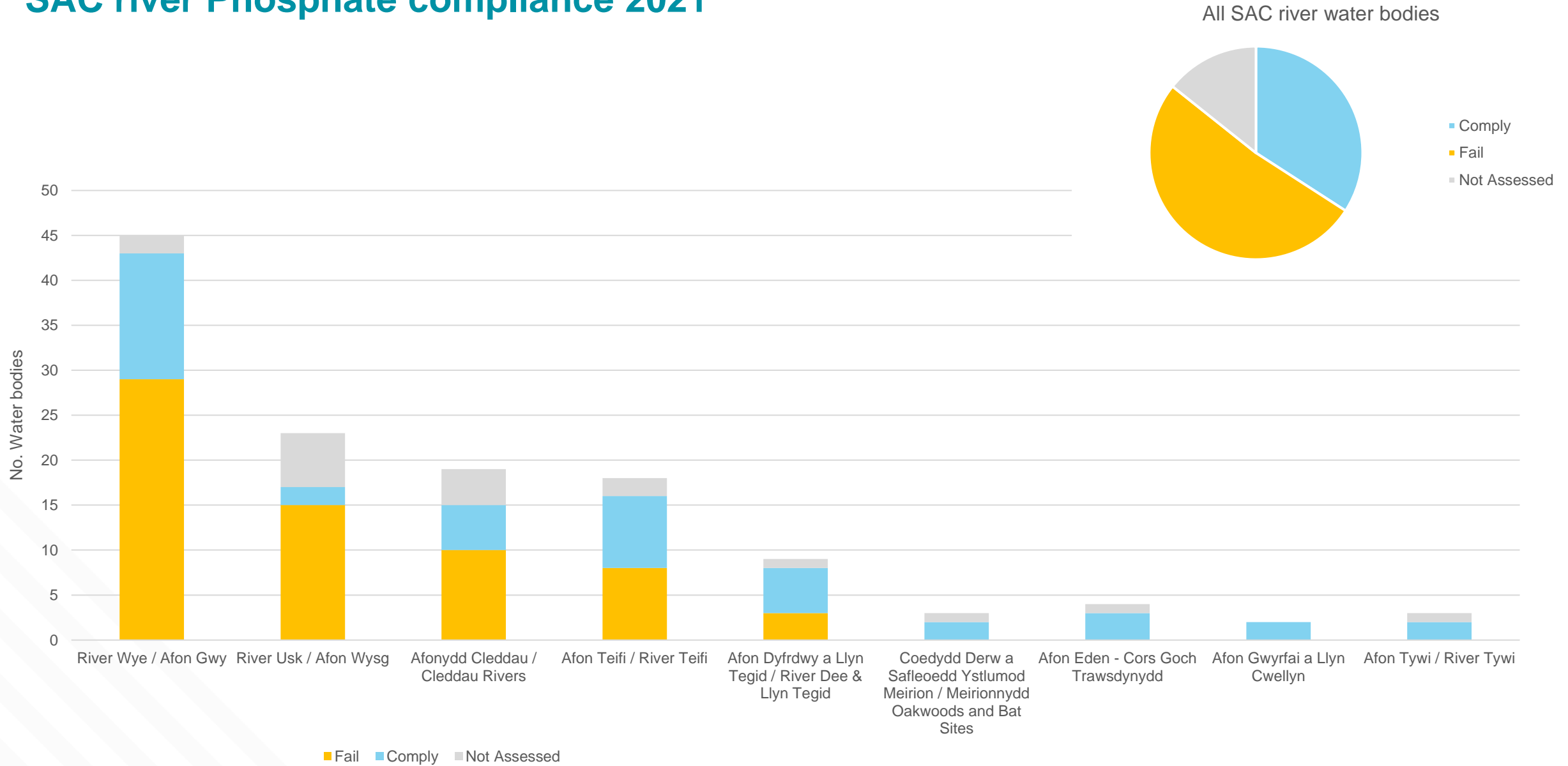


# WFD River Catchment Phosphate compliance 2021

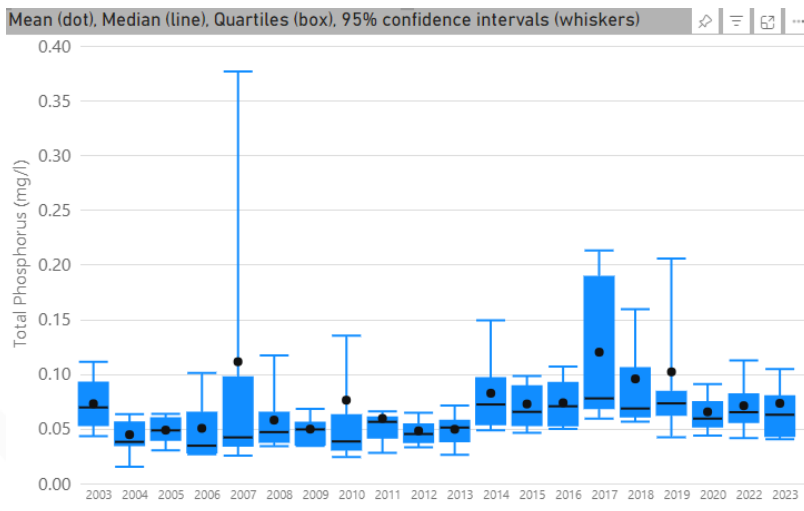




# SAC river Phosphate compliance 2021



# Teifi - Other nutrients



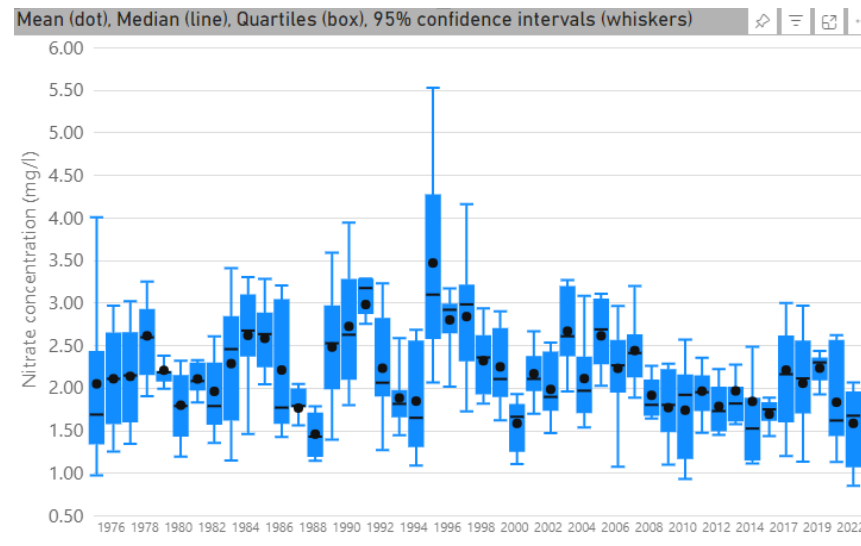
Total Phosphorus  $\text{mg l}^{-1}\text{P}$ .

[Open in Power BI](#)

KiWQM Water Quality

Data as of 22/11/23, 05:21

Filtered by **SAC Name** (is Afon Teifi / River Teifi), **WFD\_River** (is GB110062043563 - Teifi - Afon Ceri to estuary), **Parameter Number, Name** (is 0348, Phosphorus, Total as P), **Display Name** (is TEIFI LLECHRYD ROAD BRIDGE/34401), **Station Name** (is not (Blank)), **Parameter Name** (is not (Blank))



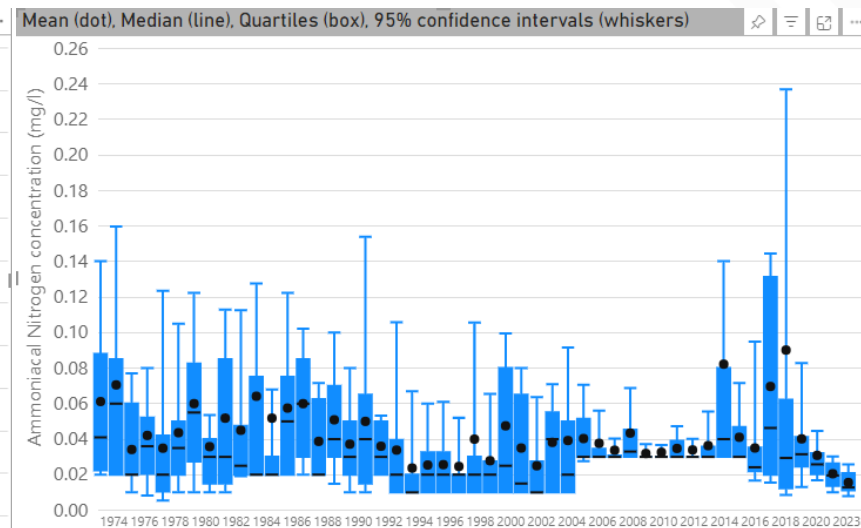
Nitrate  $\text{mg l}^{-1}\text{N}$ .

[Open in Power BI](#)

KiWQM Water Quality

Data as of 22/11/23, 05:21

Filtered by **SAC Name** (is Afon Teifi / River Teifi), **WFD\_River** (is GB110062043563 - Teifi - Afon Ceri to estuary), **Parameter Number, Name** (is 0117, Nitrate as N), **Display Name** (is TEIFI LLECHRYD ROAD BRIDGE/34401), **Station Name** (is not (Blank)), **Parameter Name** (is not (Blank))



Total Ammoniacal Nitrogen  $\text{mg l}^{-1}\text{N}$

WFD EQS =  $0.3\text{mg l}^{-1}$

[Open in Power BI](#)

KiWQM Water Quality

Data as of 22/11/23, 05:21

Filtered by **SAC Name** (is Afon Teifi / River Teifi), **WFD\_River** (is GB110062043563 - Teifi - Afon Ceri to estuary), **Parameter Number, Name** (is 0111, Ammoniacal Nitrogen as N), **Display Name** (is TEIFI LLECHRYD ROAD BRIDGE/34401), **Station Name** (is not (Blank)), **Parameter Name** (is not (Blank))

