

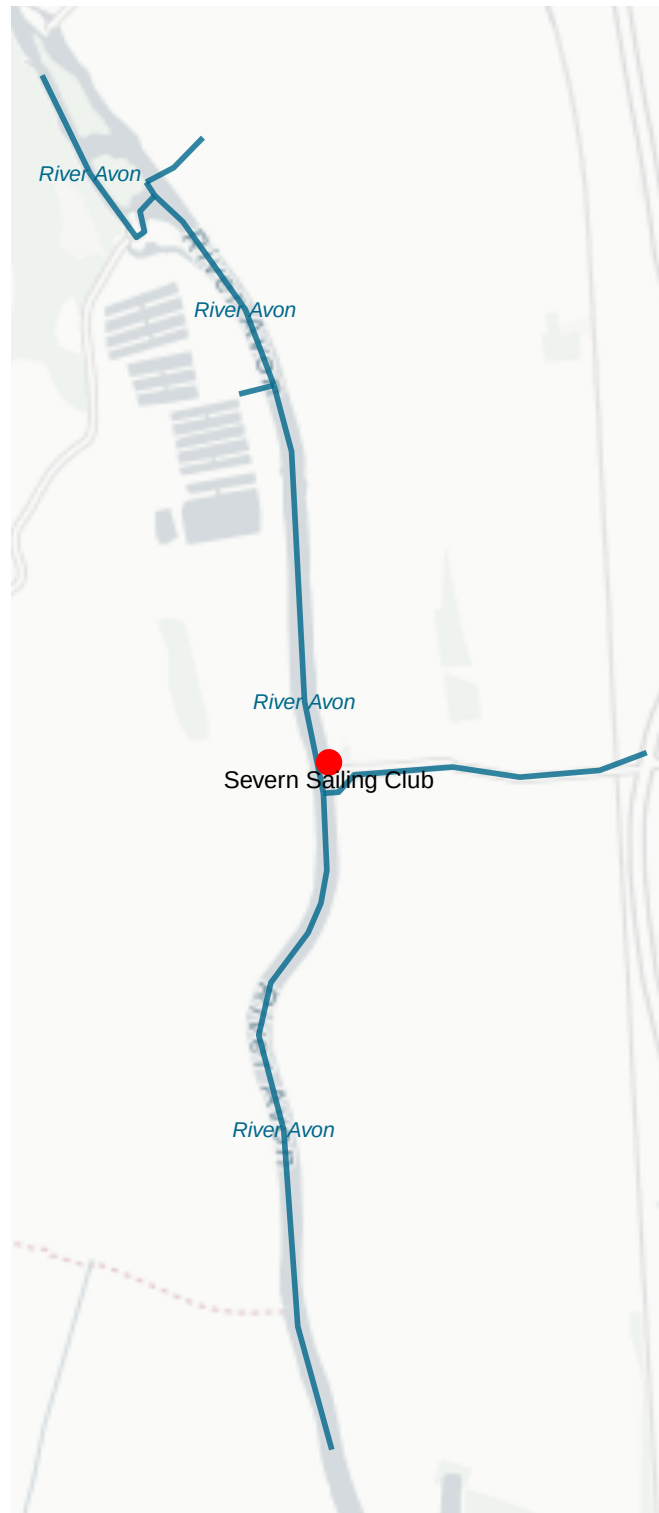
SafeAvon Nutrient Testing Report: Bredon's Norton

SafeAvon Sites By Waterway

Avon River

. Bredon's Norton – Severn Sailing Club

SafeAvon Locations in Bredon's Norton

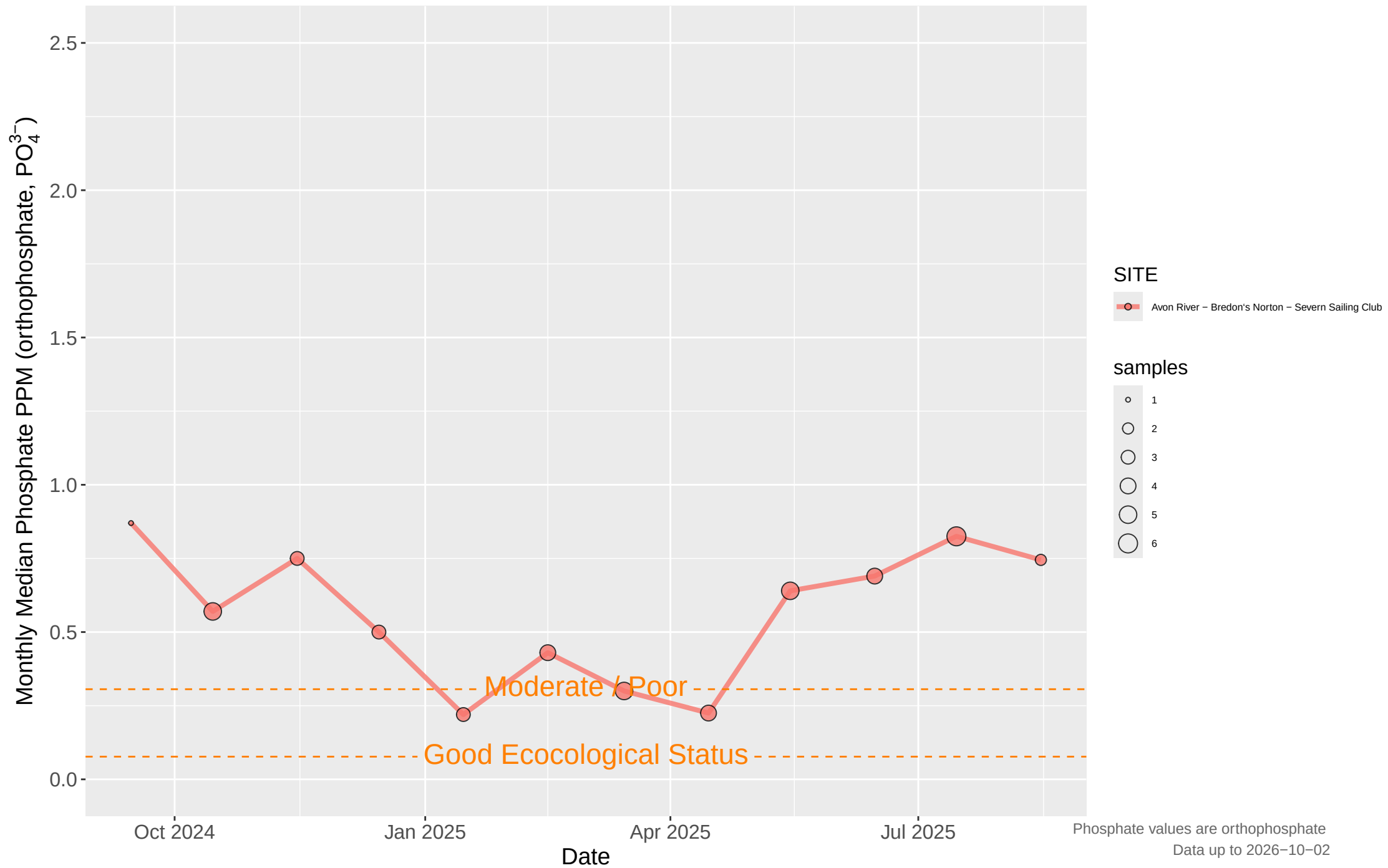


Summary for sites in Bredon's Norton

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Avon River – Bredon's Norton – Severn Sailing Club	2024-09-25	2025-08-13	46	2	0.57	5

SafeAvon Phosphates – By Month

Bredon's Norton



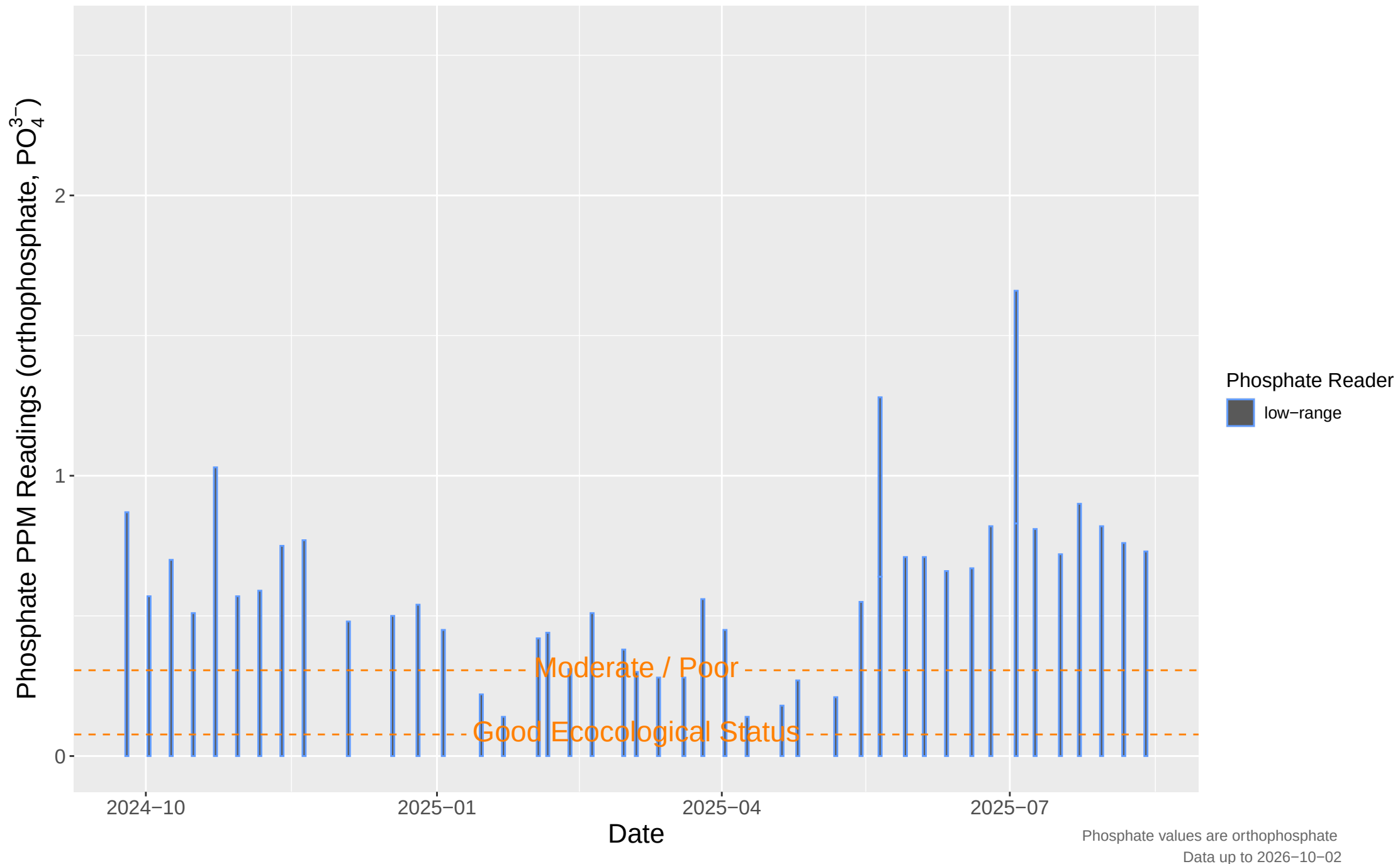
Site: Avon River – Bredon’s Norton – Severn Sailing Club

Start Date: 2024-09-25 | Most Recent: 2025-08-13 | Total Samples: 46 | Distinct Volunteers: 2

Season	Count		Phos Min	Phos Med	Phos Max		Nitr Min	Nitr Med	Nitr Max		EC Min	EC Med	EC Max		Temp Min	Temp Med	Temp Max
Autumn 24	10		0.51	0.70	1.03		1	5	10		453	712	8120		7.9	13.4	15.3
Winter 24-25	10		0.14	0.44	0.54		5	5	10		5	730	852		6.0	7.3	10.5
Spring 25	14		0.14	0.34	0.71		2	10	10		104	870	1070		8.3	14.4	19.6
Summer 25	12		0.66	0.78	0.90		2	10	20		105	904	8670		13.6	21.4	24.2

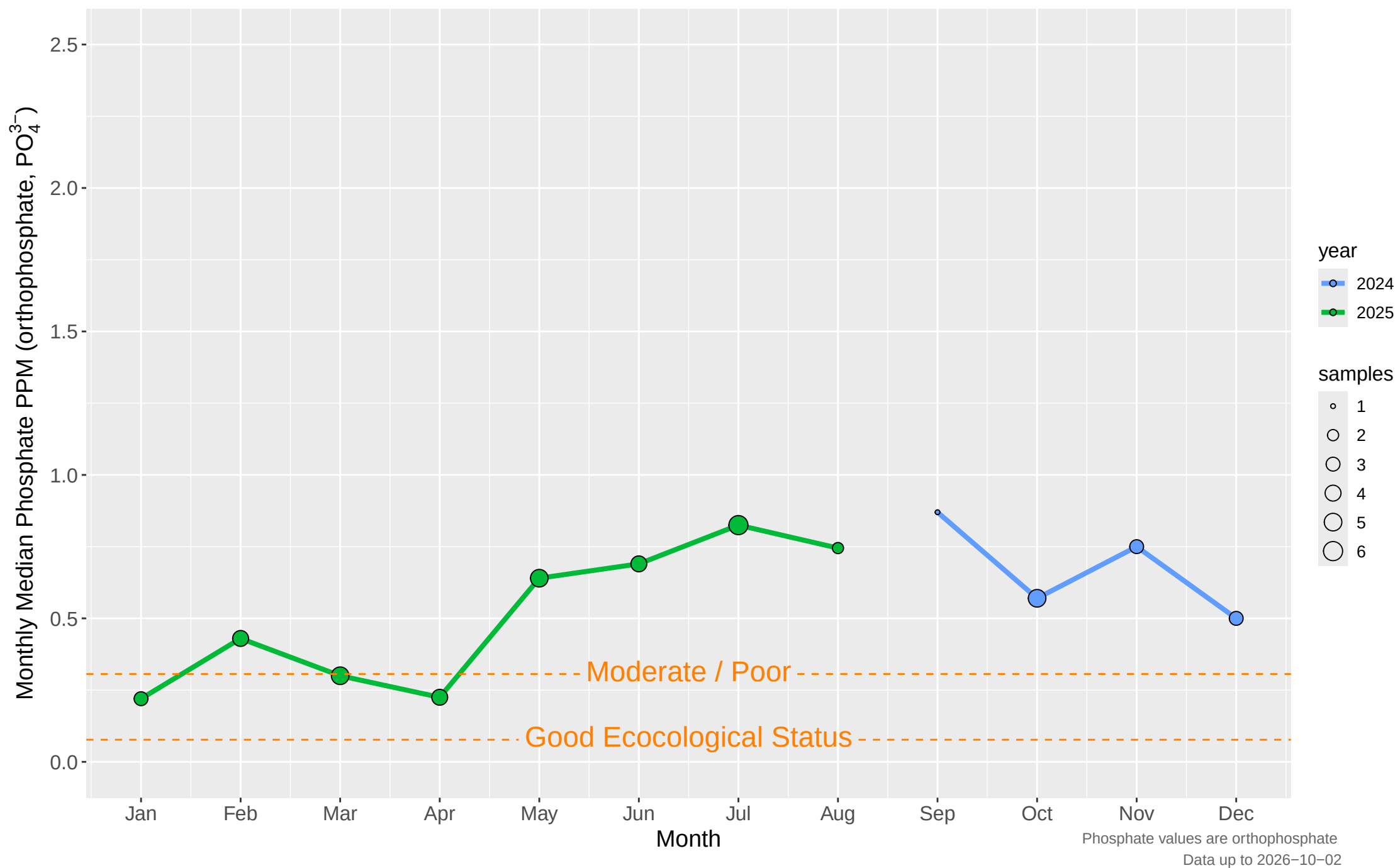
SafeAvon Phosphates – Individual Readings

Avon River – Bredon's Norton – Severn Sailing Club



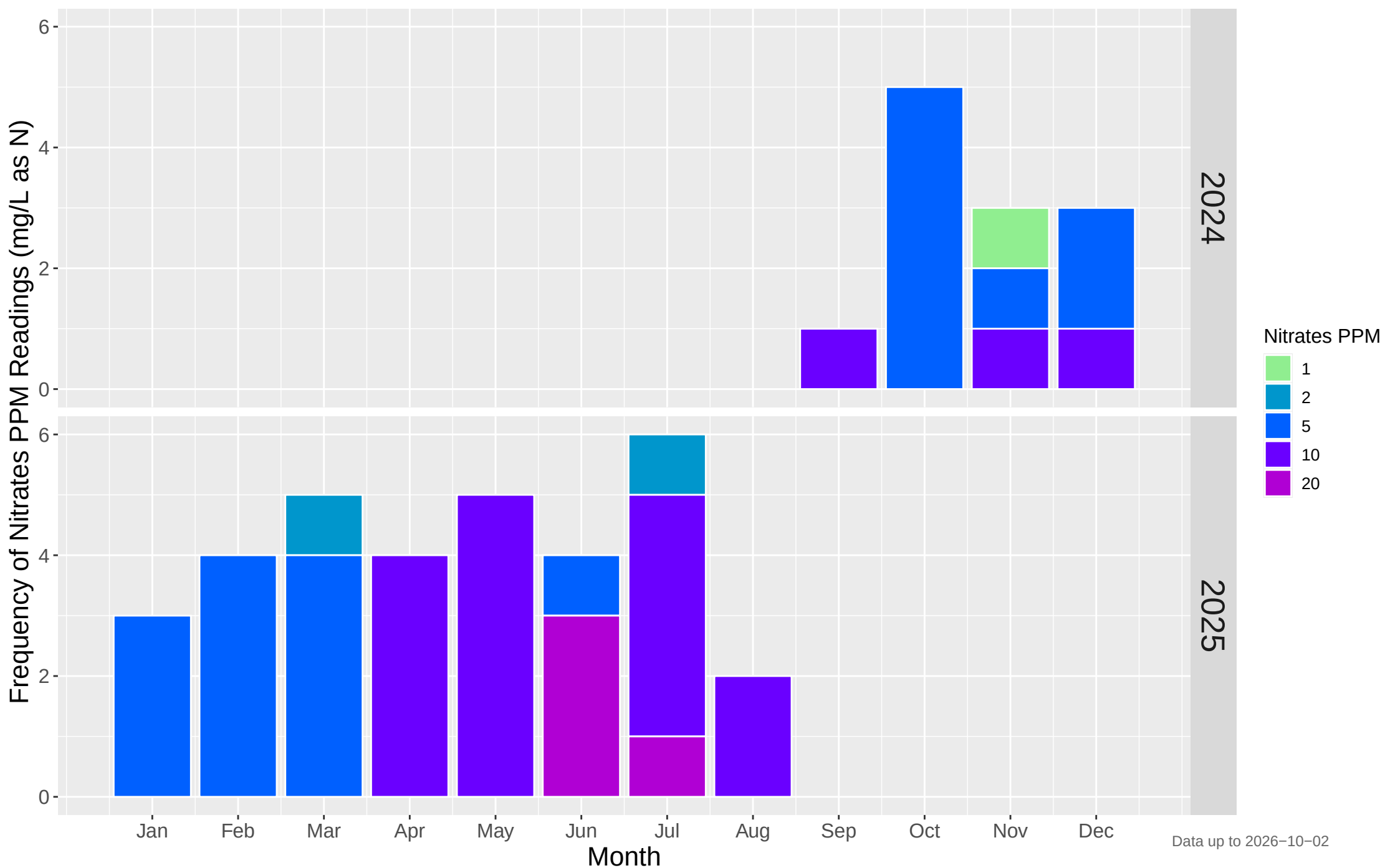
SafeAvon Phosphates – By Month

Avon River – Bredon's Norton – Severn Sailing Club



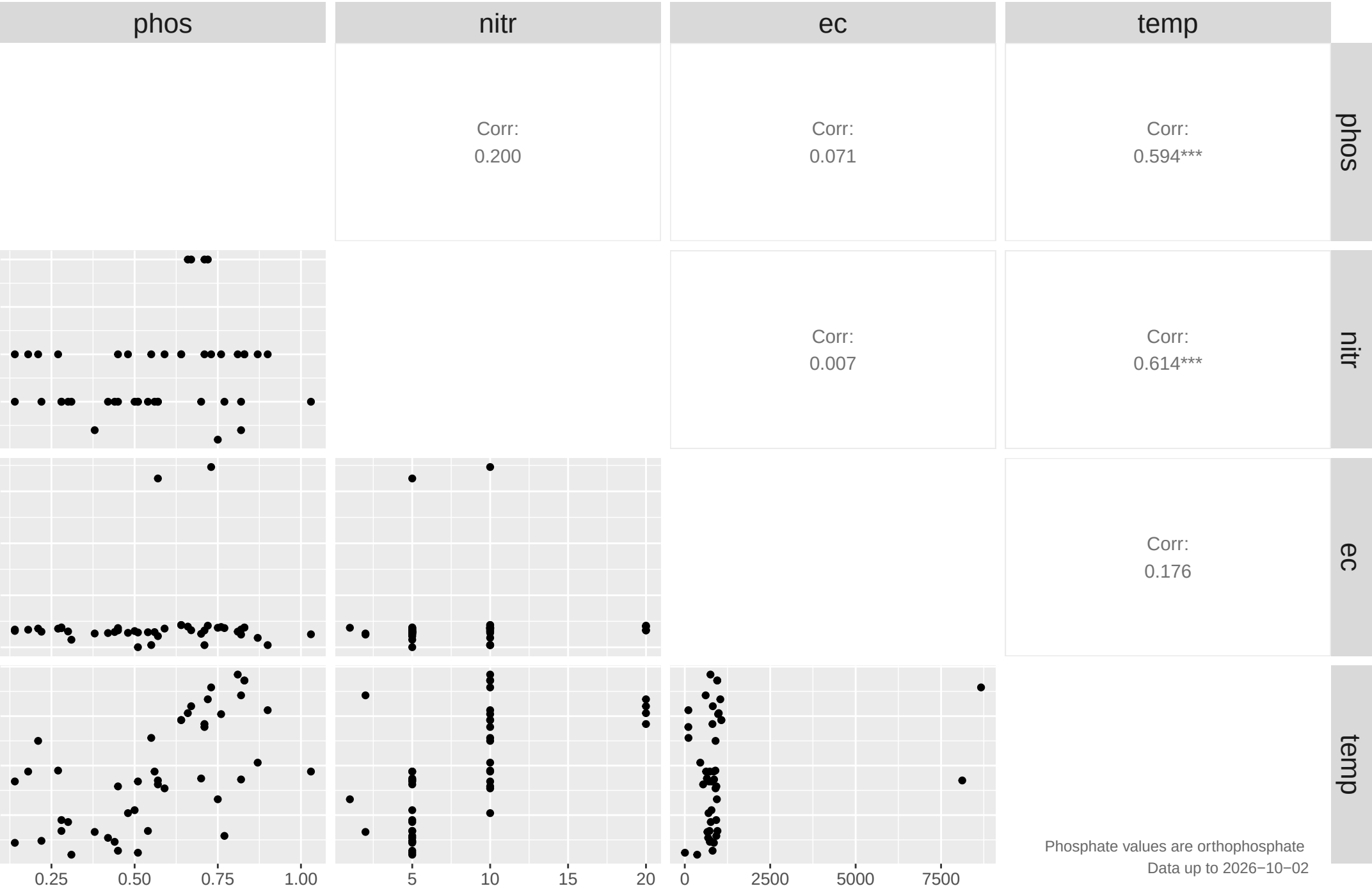
SafeAvon Nitrates By Month

Avon River – Bredon's Norton – Severn Sailing Club



Pairwise Testing Variables Relationships

Avon River – Bredon's Norton – Severn Sailing Club



Report Glossary & Interpretation Guide

Understanding the Charts

Pairwise Correlation Matrices

- . Valuation Scale (–1 to +1): Quantifies correlation between variables.
- (+1) Perfect Positive Correlation: Variables track each other; if one scales up, the other increases.
- (0) No Correlation: Variable movements appear independent.
- (–1) Perfect Negative Correlation: Variables track inversely; when one scales up, the other drops.
- . Practical Application: If a pair of variables have a correlation approaching 1, it demonstrates that typically on any given sample, these values are likely to be strongly correlated. This indicates they may share similar sources and/or similar ways of exiting out into the watercourse.

Ecological Threshold Frameworks

Phosphate Status (Orthophosphate, PO₄^{3–})

- Monitored using Hanna pocket checker:
- . High Status: $x < 0.077$ PPM
 - . Good Ecological Status: $0.077 \leq x \leq 0.306$ PPM
 - . Moderate / Poor Ecological Status: $x > 0.306$ PPM

Nitrate Levels (Nitrate-as-N)

- Monitored using WaterWorks/Hach Nitrate kit:
- . Natural Levels: $x < 1.0$ PPM
 - . Elevated Levels: $1.0 \leq x < 5.0$ PPM
 - . Excessive Levels: $x \geq 5.0$ PPM

Data Access

Data pulled from EpiCollect API.
Full dataset accessible via SafeAvon website which has links to EpiCollect and the Google Sheet.
URL: https://safeavon.org.uk/?page_id=151