

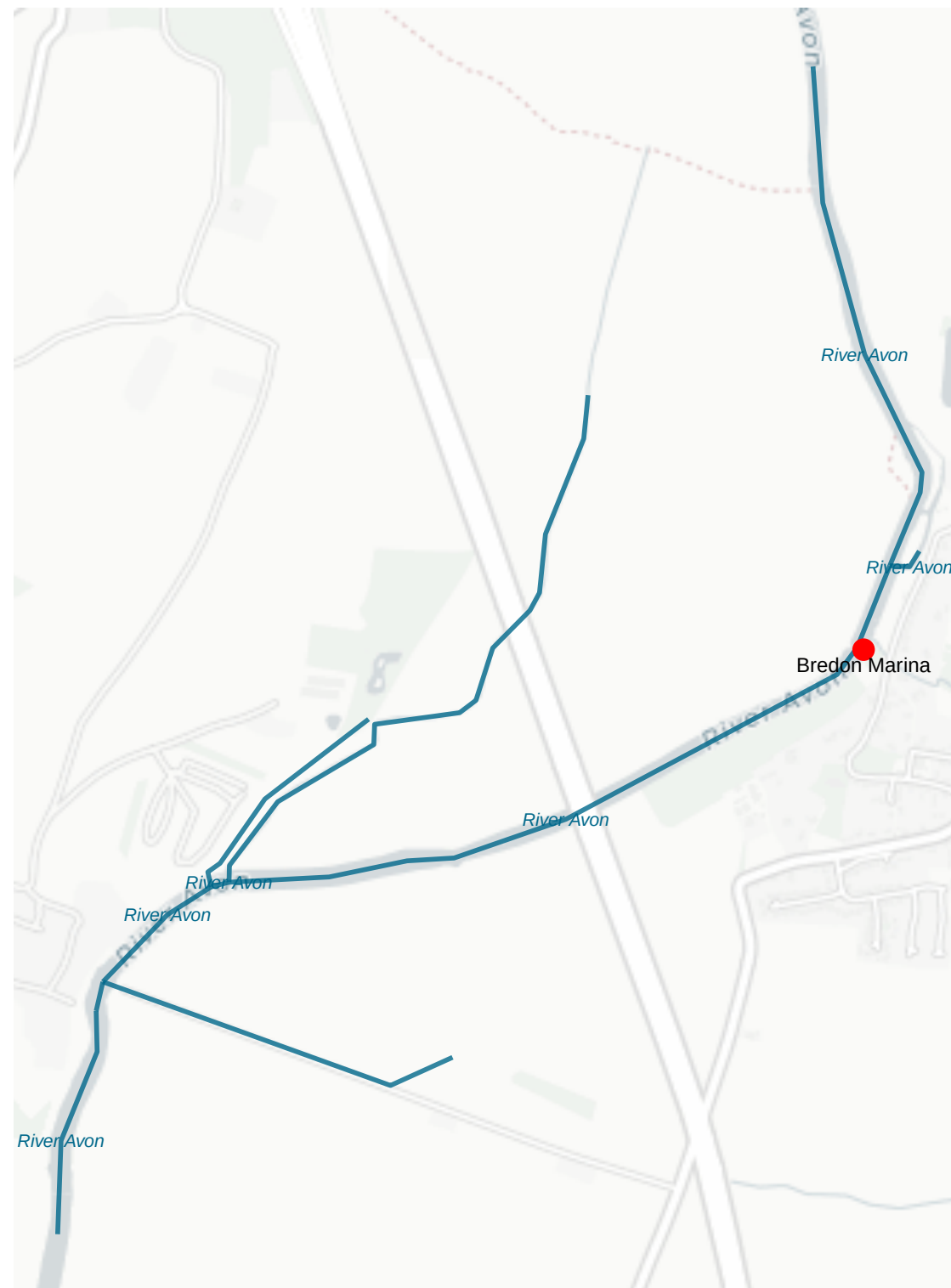
SafeAvon Nutrient Testing Report: Bredon

SafeAvon Sites By Waterway

Avon River

. Bredon – Bredon Marina

SafeAvon Locations in Bredon

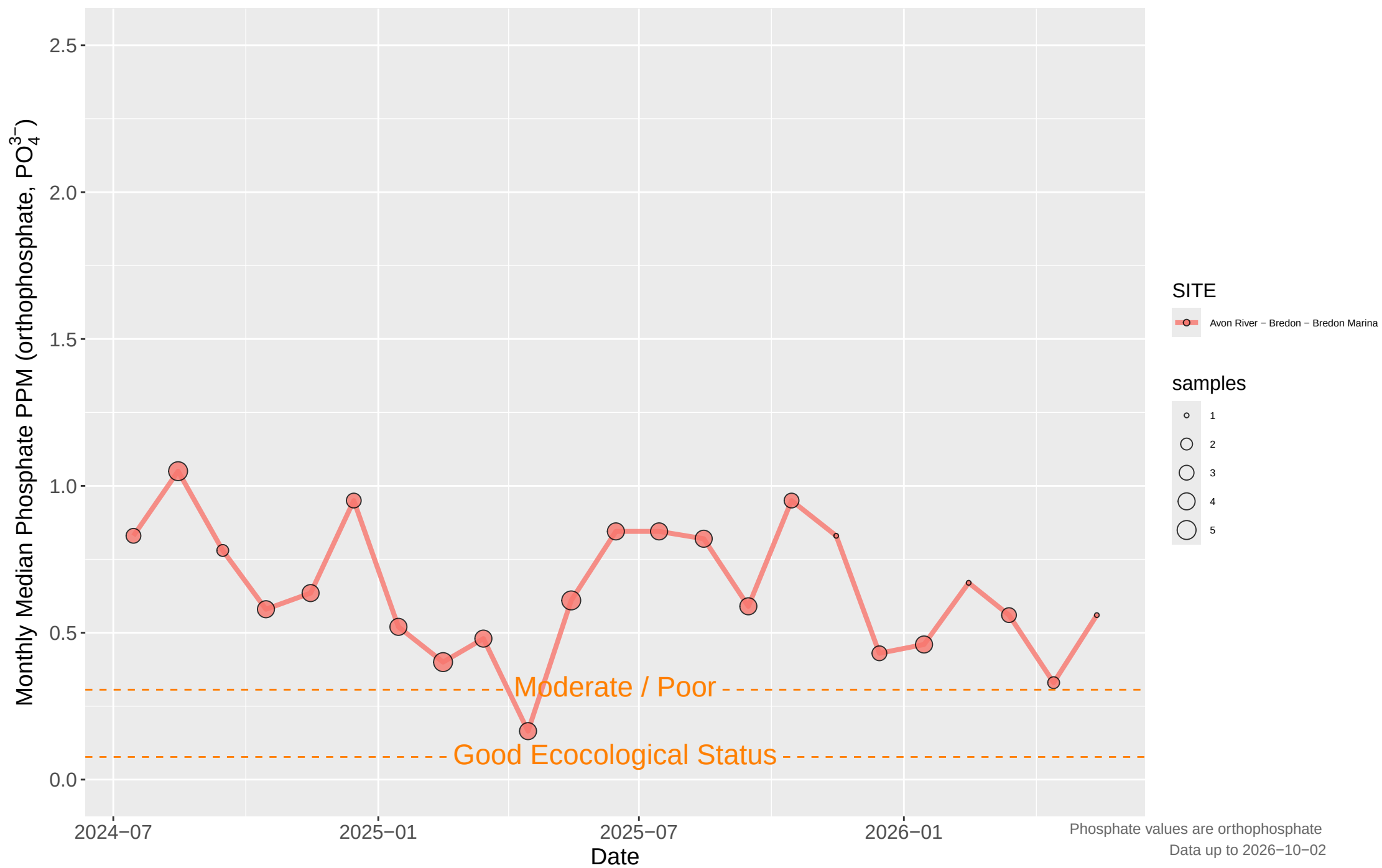


Summary for sites in Bredon

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Avon River – Bredon – Bredon Marina	2024-07-10	2026-05-10	77	2	0.64	5

SafeAvon Phosphates – By Month

Bredon



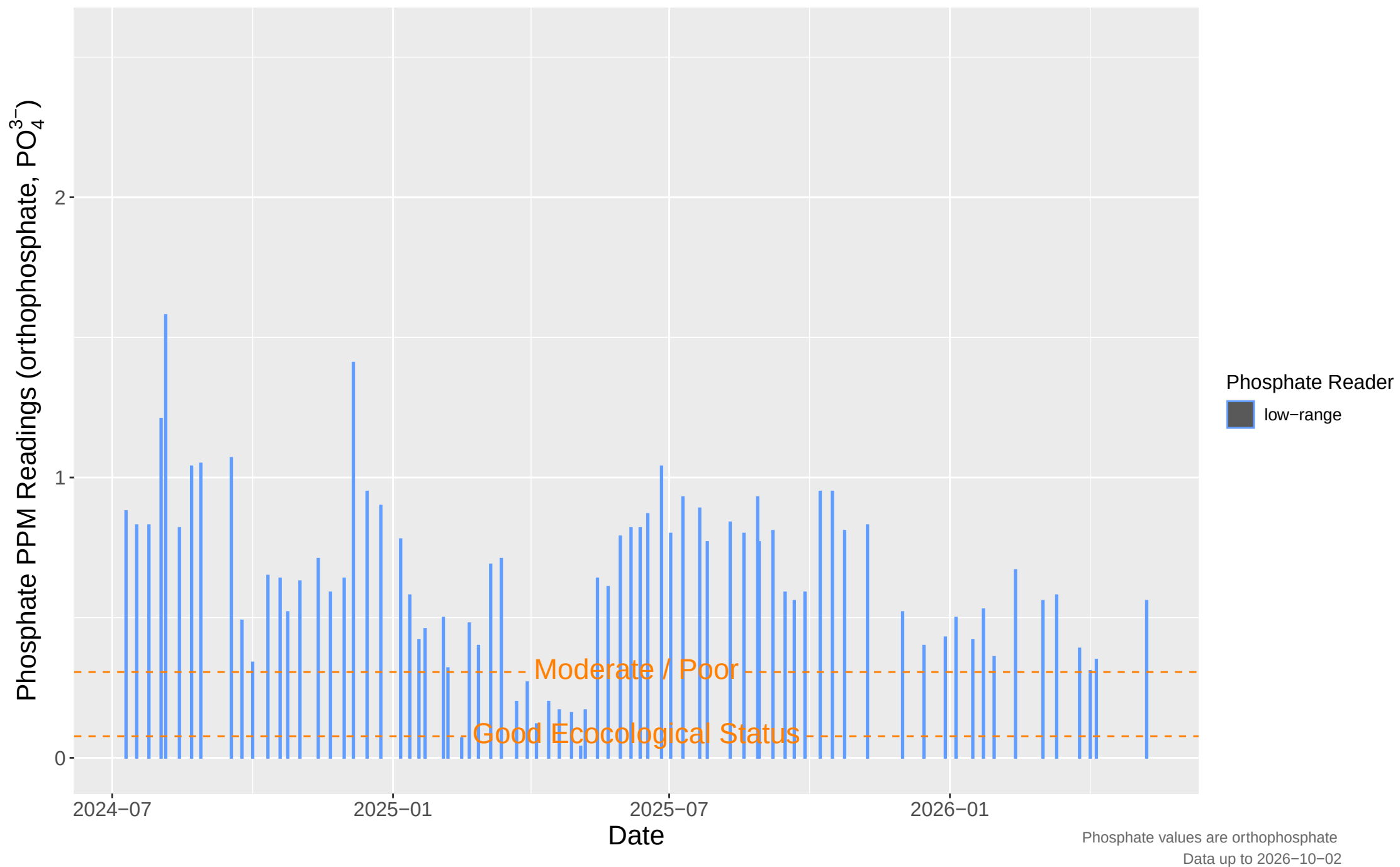
Site: Avon River – Bredon – Bredon Marina

Start Date: 2024-07-10 | Most Recent: 2026-05-10 | Total Samples: 77 | 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
Summer 24	8		0.82	0.96	1.58		1	10.0	20		818	1020	9560		19.1	20.9	23.4
Autumn 24	10		0.34	0.64	1.07		2	10.0	10		546	5795	9960		8.2	13.4	19.3
Winter 24-25	12		0.07	0.49	1.41		2	2.0	5		6340	7560	8970		4.7	8.3	13.2
Spring 25	13		0.04	0.20	0.79		2	5.0	10		102	972	8690		9.4	14.7	20.1
Summer 25	12		0.77	0.83	1.04		2	3.5	10		114	1120	9750		18.3	22.2	24.5
Autumn 25	8		0.56	0.81	0.95		5	5.0	10		776	992	9130		11.3	14.8	17.1
Winter 25-26	8		0.36	0.46	0.67		2	5.0	10		5110	6750	8640		6.5	11.1	12.0
Spring 26	6		0.31	0.48	0.58		5	10.0	20		948	8830	9260		11.4	15.8	17.1

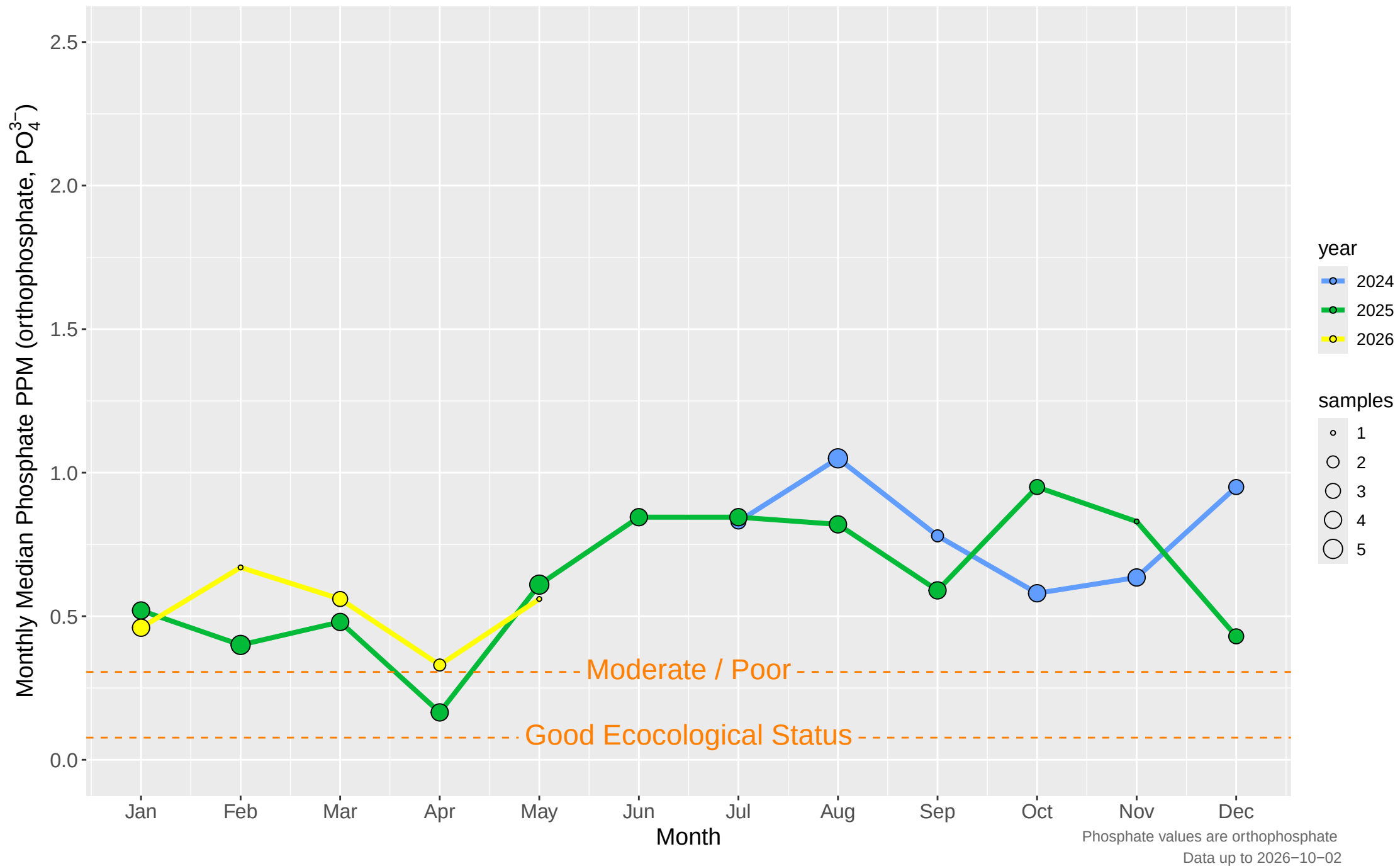
SafeAvon Phosphates – Individual Readings

Avon River – Bredon – Bredon Marina



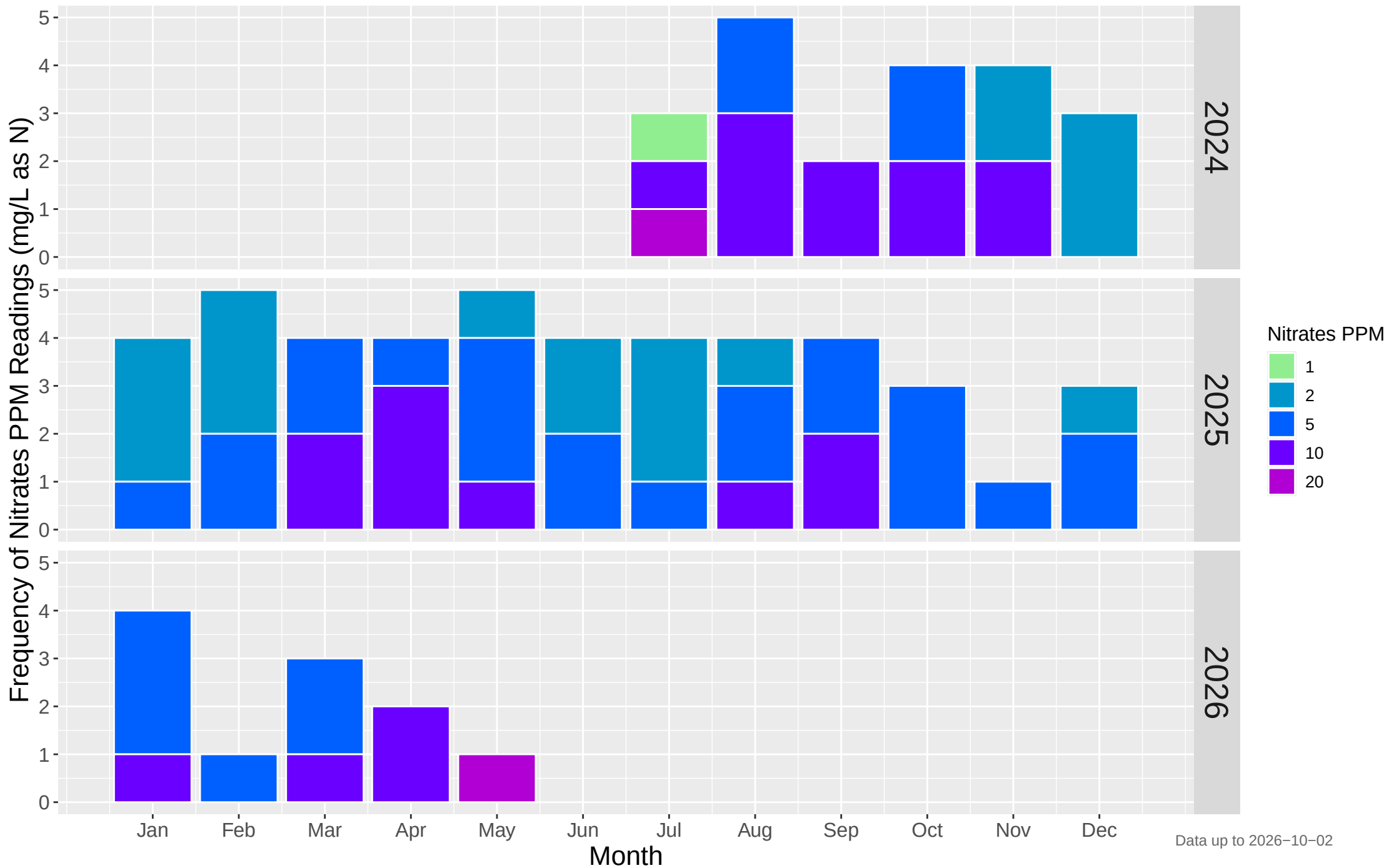
SafeAvon Phosphates – By Month

Avon River – Bredon – Bredon Marina



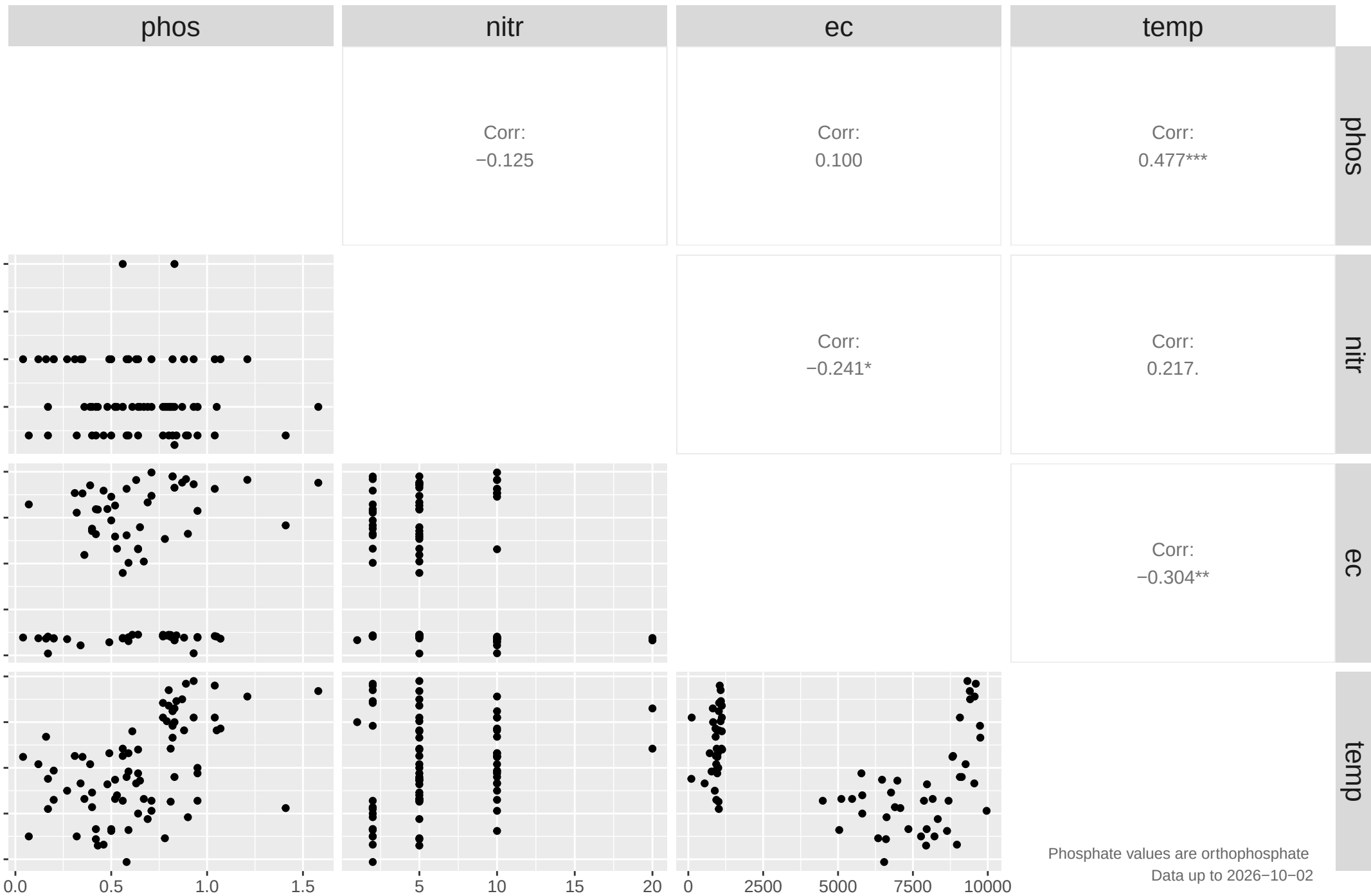
SafeAvon Nitrates By Month

Avon River – Bredon – Bredon Marina



Pairwise Testing Variables Relationships

Avon River – Bredon – Bredon Marina



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