

SafeAvon Nutrient Testing Report: Evesham

SafeAvon Sites By Waterway

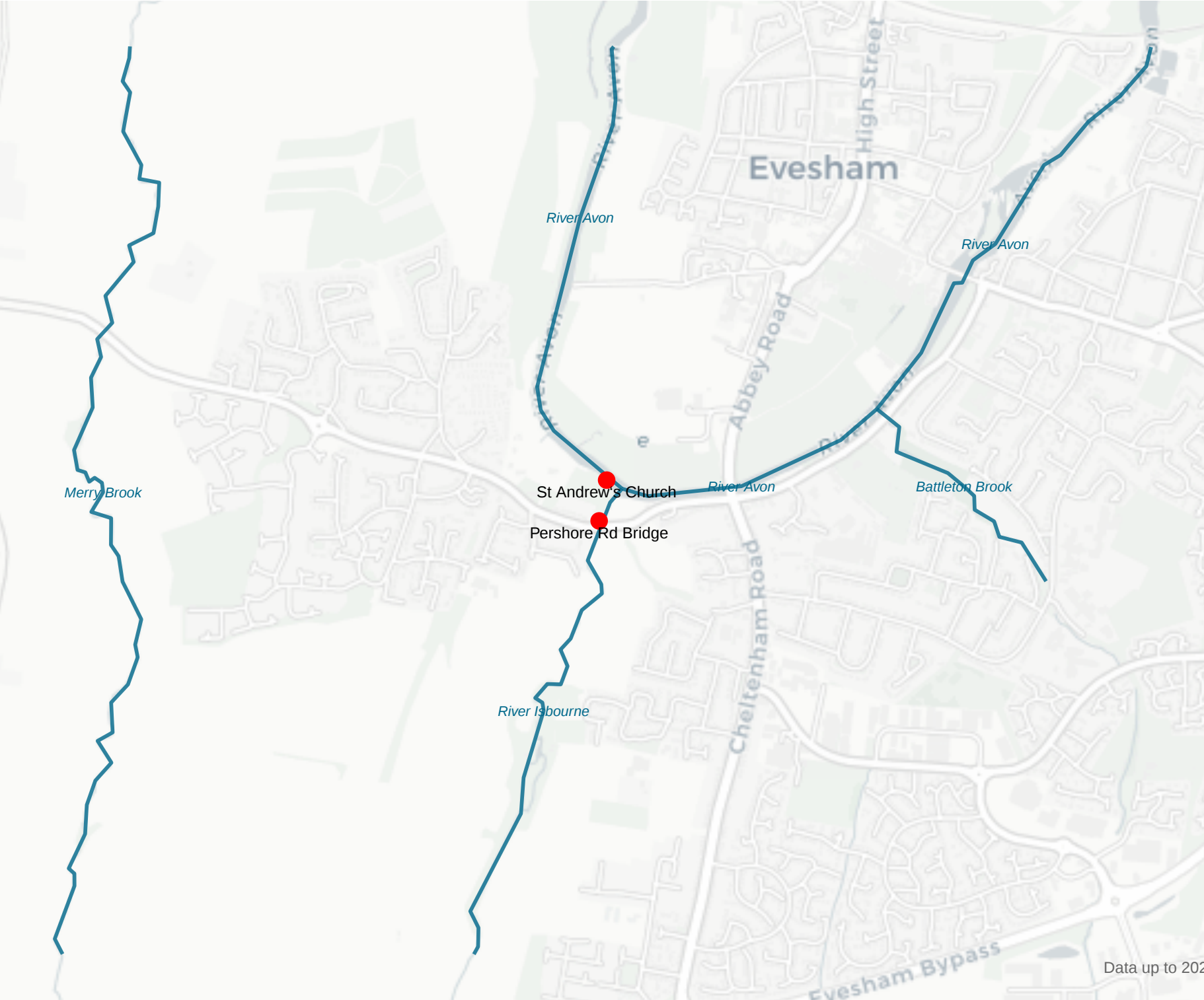
Avon River

. Evesham – St Andrew's Church

Isbourne River

. Evesham – Pershore Rd Bridge

SafeAvon Locations in Evesham

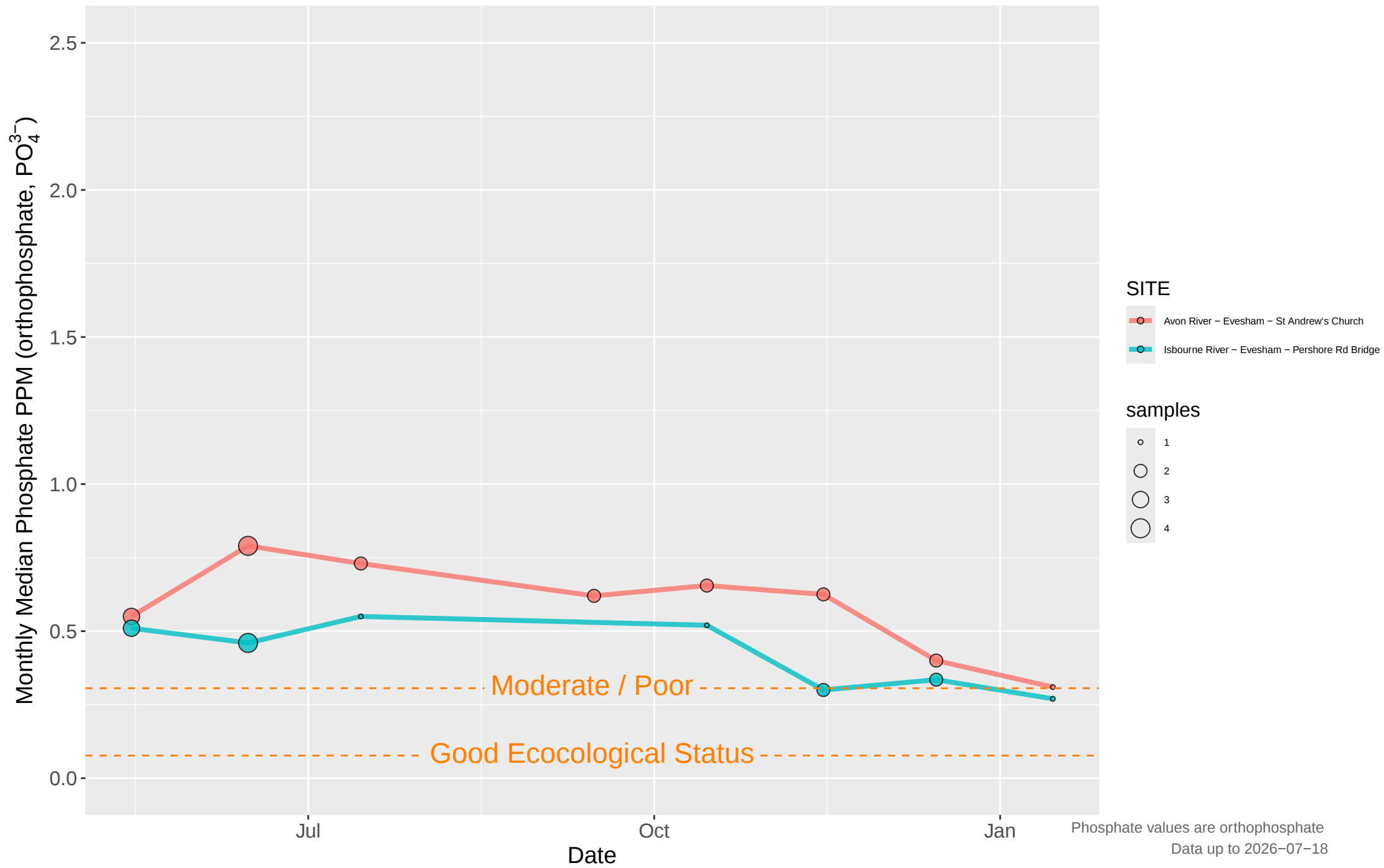


Summary for sites in Evesham

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Avon River – Evesham – St Andrew's Church	2025-05-14	2026-01-19	18	3	0.62	10
Isbourne River – Evesham – Pershore Rd Bridge	2025-05-14	2026-01-19	14	3	0.41	5

SafeAvon Phosphates – By Month

Evesham



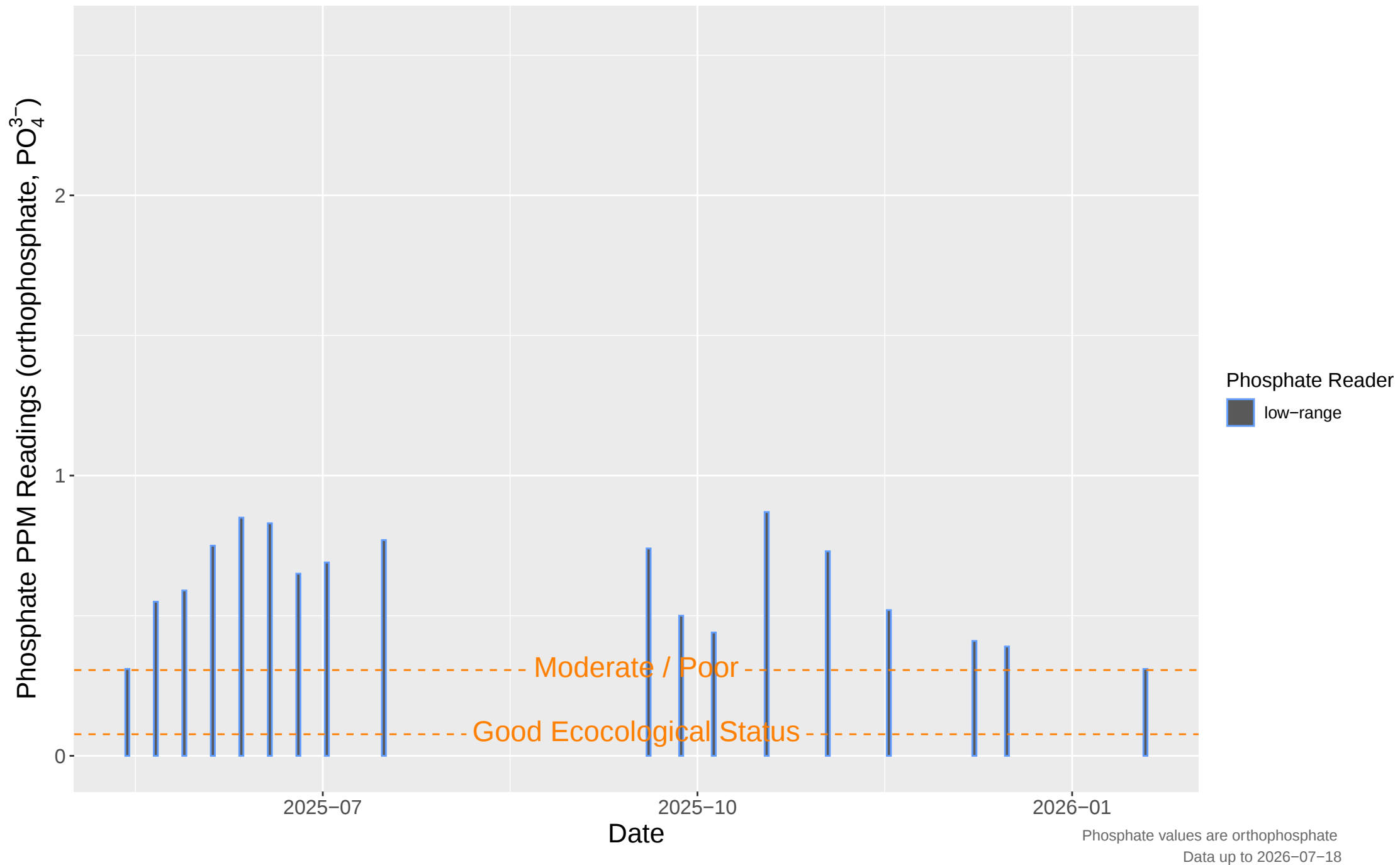
Site: Avon River – Evesham – St Andrew’s Church

Start Date: 2025-05-14 | Most Recent: 2026-01-19 | Total Samples: 18 | Distinct Volunteers: 3

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
Spring 25	3		0.31	0.55	0.59		10	20	20		103	105	107		16.8	17.7	17.7
Summer 25	6		0.65	0.76	0.85		5	10	20		100	103	976		18.3	21.0	22.7
Autumn 25	6		0.44	0.62	0.87		5	10	20		312	486	499		10.2	14.1	16.8
Winter 25-26	3		0.31	0.39	0.41		5	10	10		288	294	318		10.0	11.4	12.9

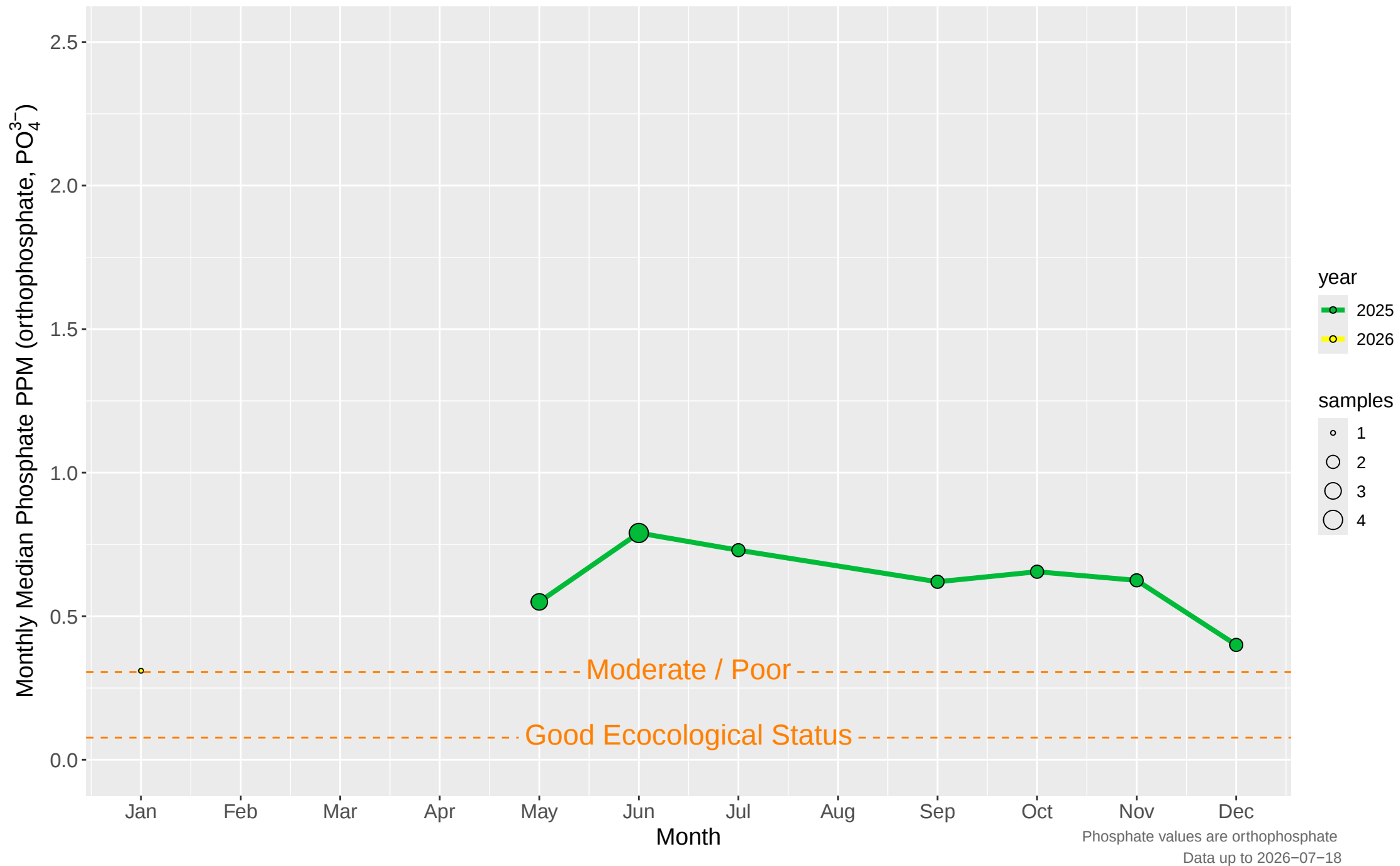
SafeAvon Phosphates – Individual Readings

Avon River – Evesham – St Andrew's Church



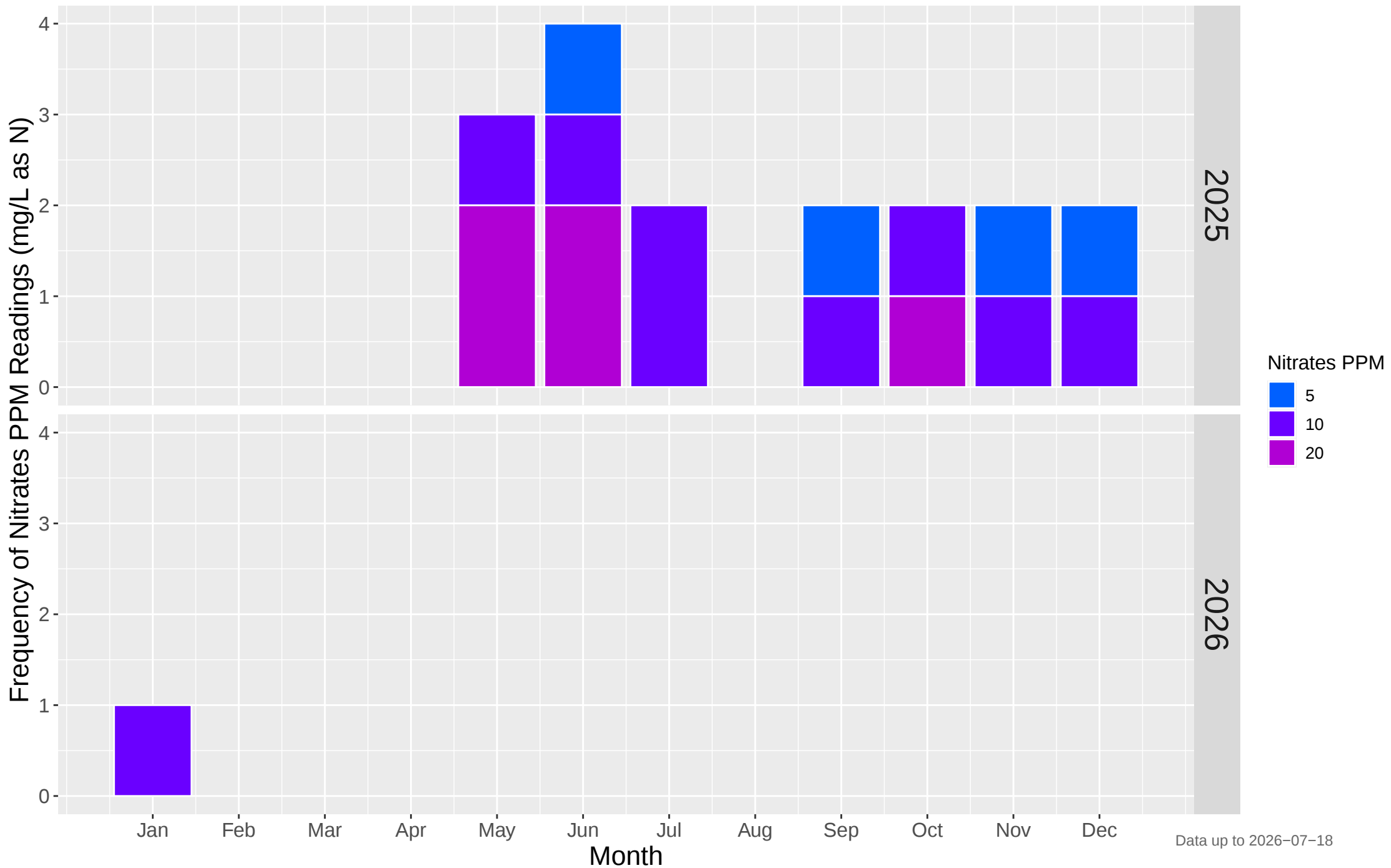
SafeAvon Phosphates – By Month

Avon River – Evesham – St Andrew's Church



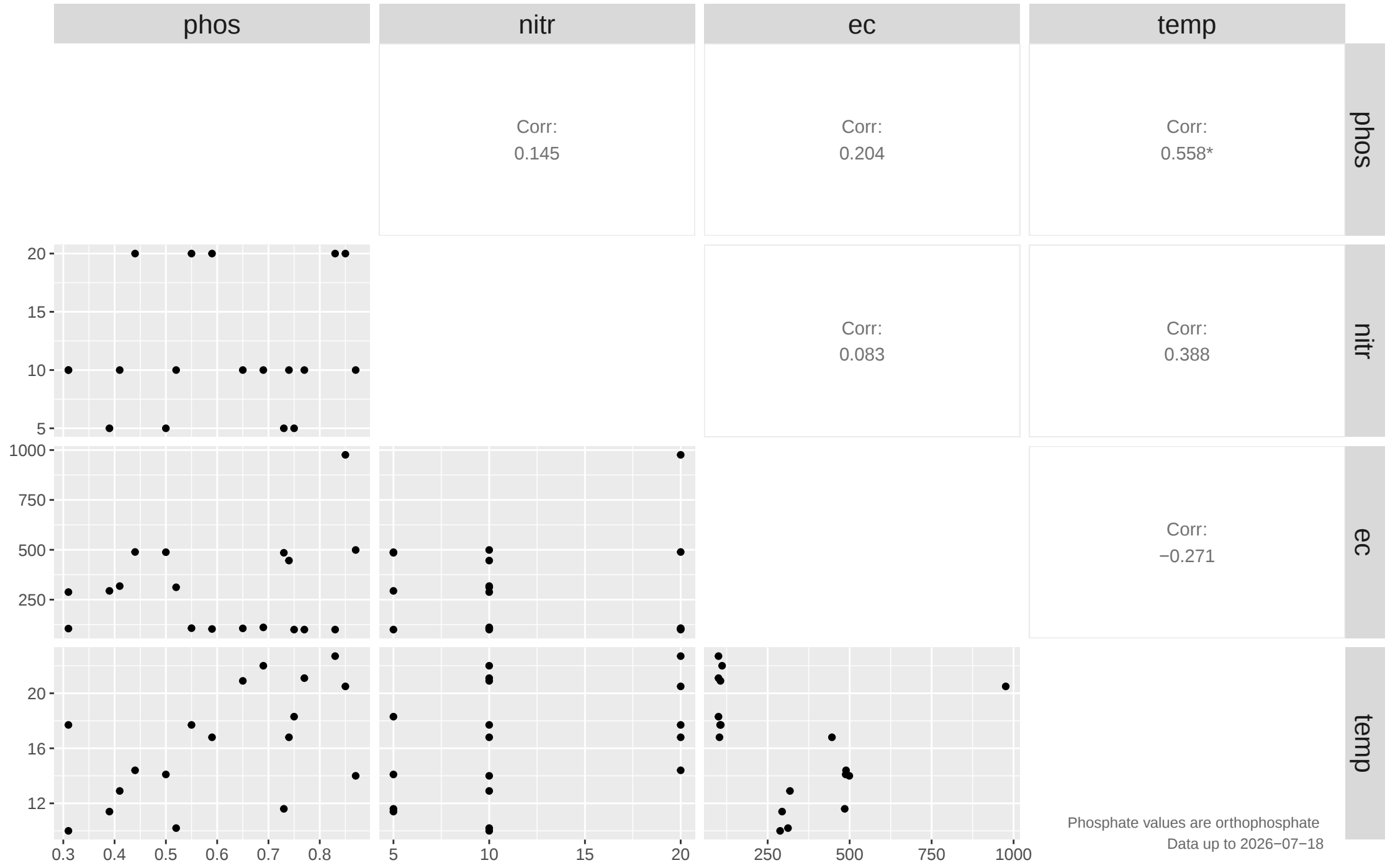
SafeAvon Nitrates By Month

Avon River – Evesham – St Andrew's Church



Pairwise Testing Variables Relationships

Avon River – Evesham – St Andrew’s Church



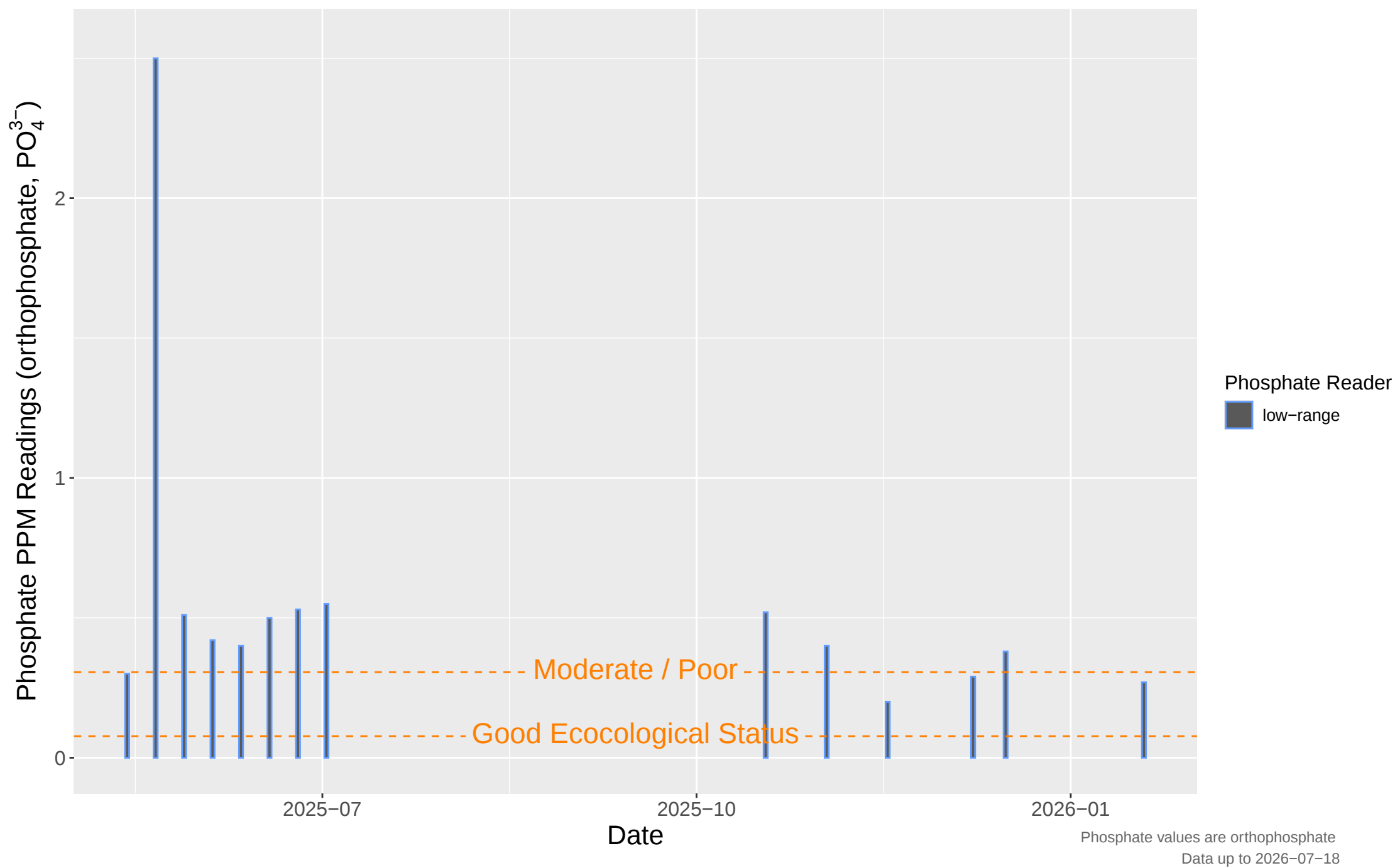
Site: Isbourne River – Evesham – Pershore Rd Bridge

Start Date: 2025-05-14 | Most Recent: 2026-01-19 | Total Samples: 14 | Distinct Volunteers: 3

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
Spring 25	3		0.30	0.51	2.50		5	5	5		576	585	590		15.2	15.7	16.3
Summer 25	5		0.40	0.50	0.55		5	5	5		530	569	578		17.1	19.1	21.3
Autumn 25	3		0.20	0.40	0.52		2	2	20		327	341	385		10.0	11.6	14.0
Winter 25-26	3		0.27	0.29	0.38		5	10	20		264	296	333		9.4	10.8	12.8

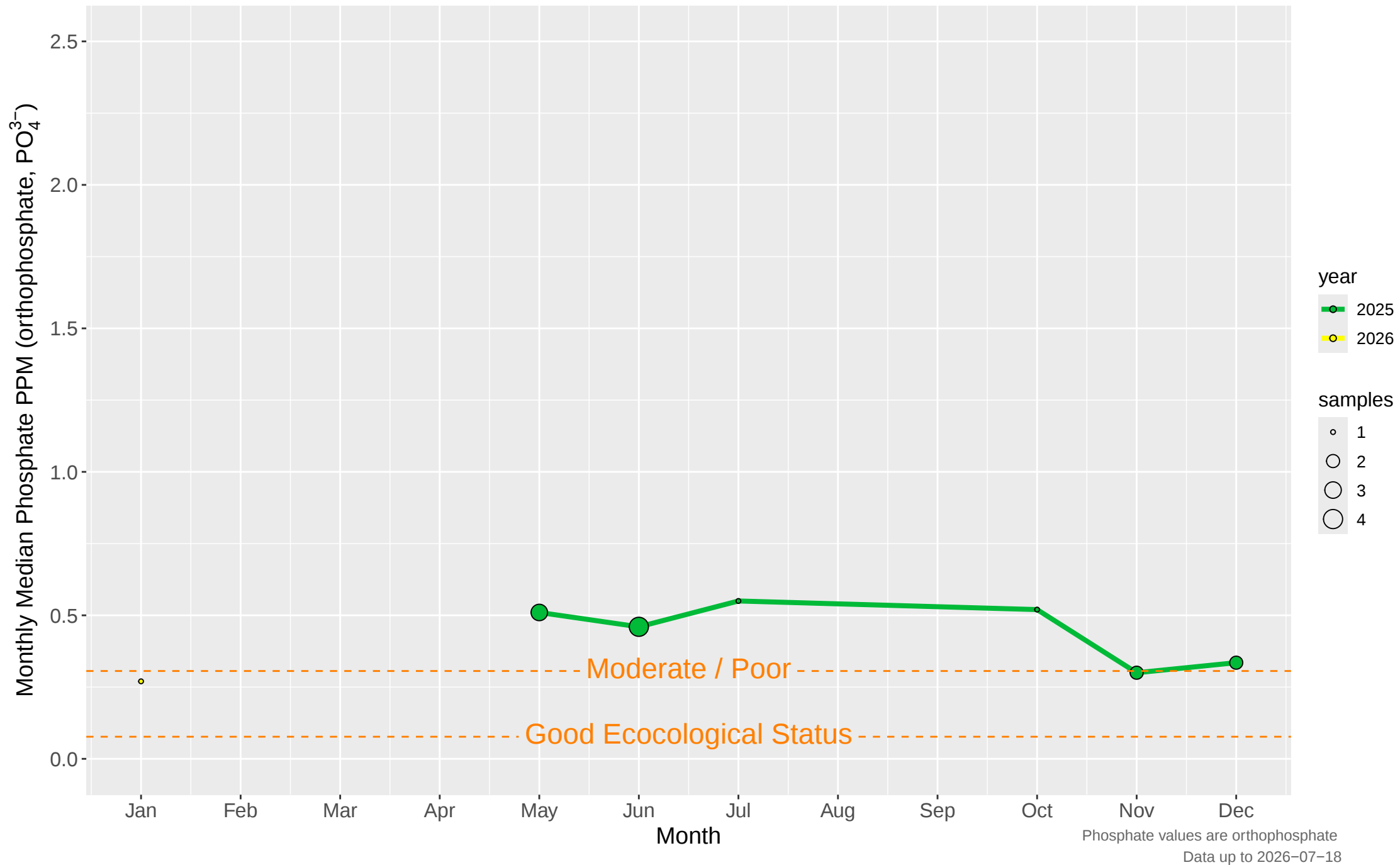
SafeAvon Phosphates – Individual Readings

Isbourne River – Evesham – Pershore Rd Bridge



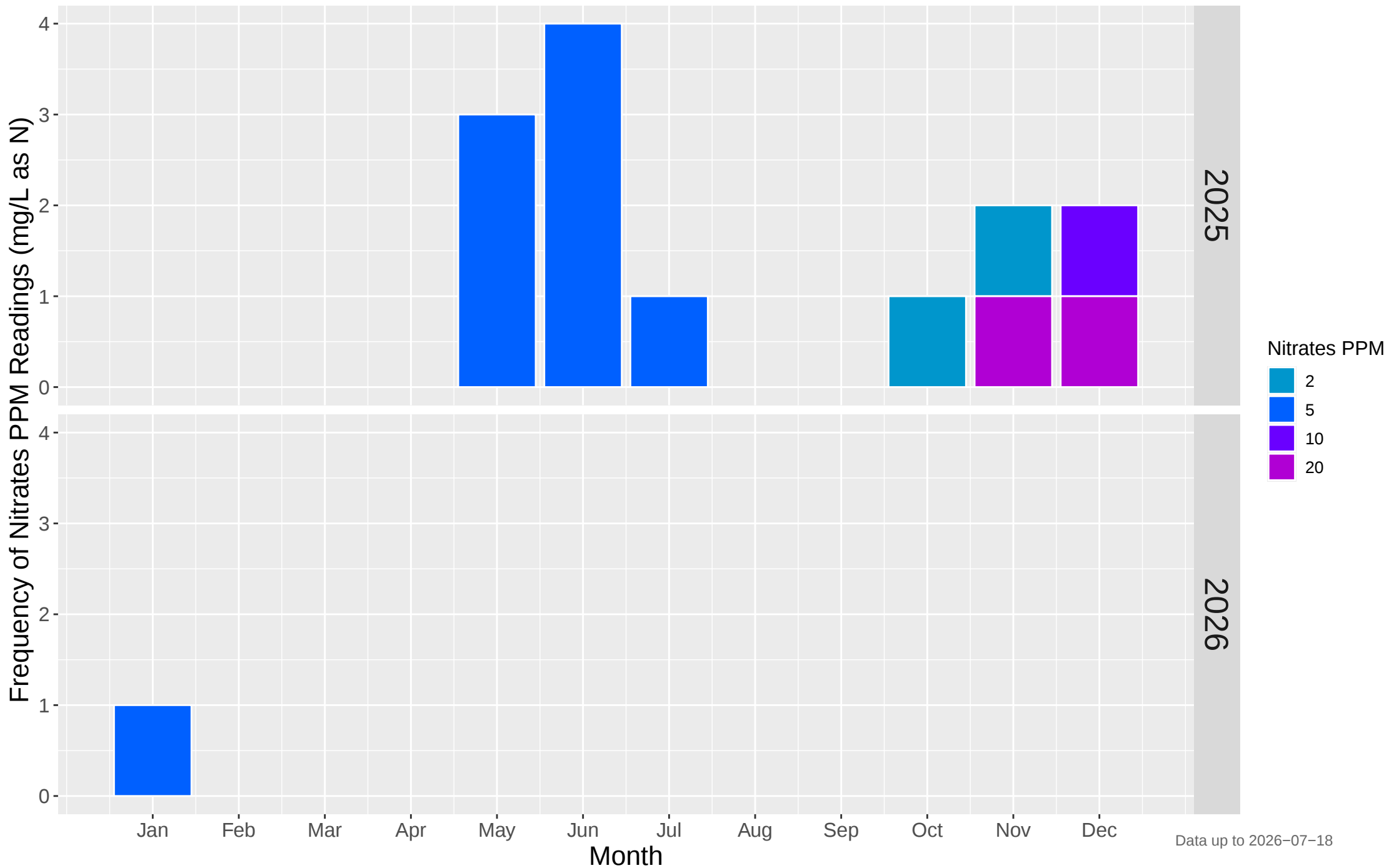
SafeAvon Phosphates – By Month

Isbourne River – Evesham – Pershore Rd Bridge



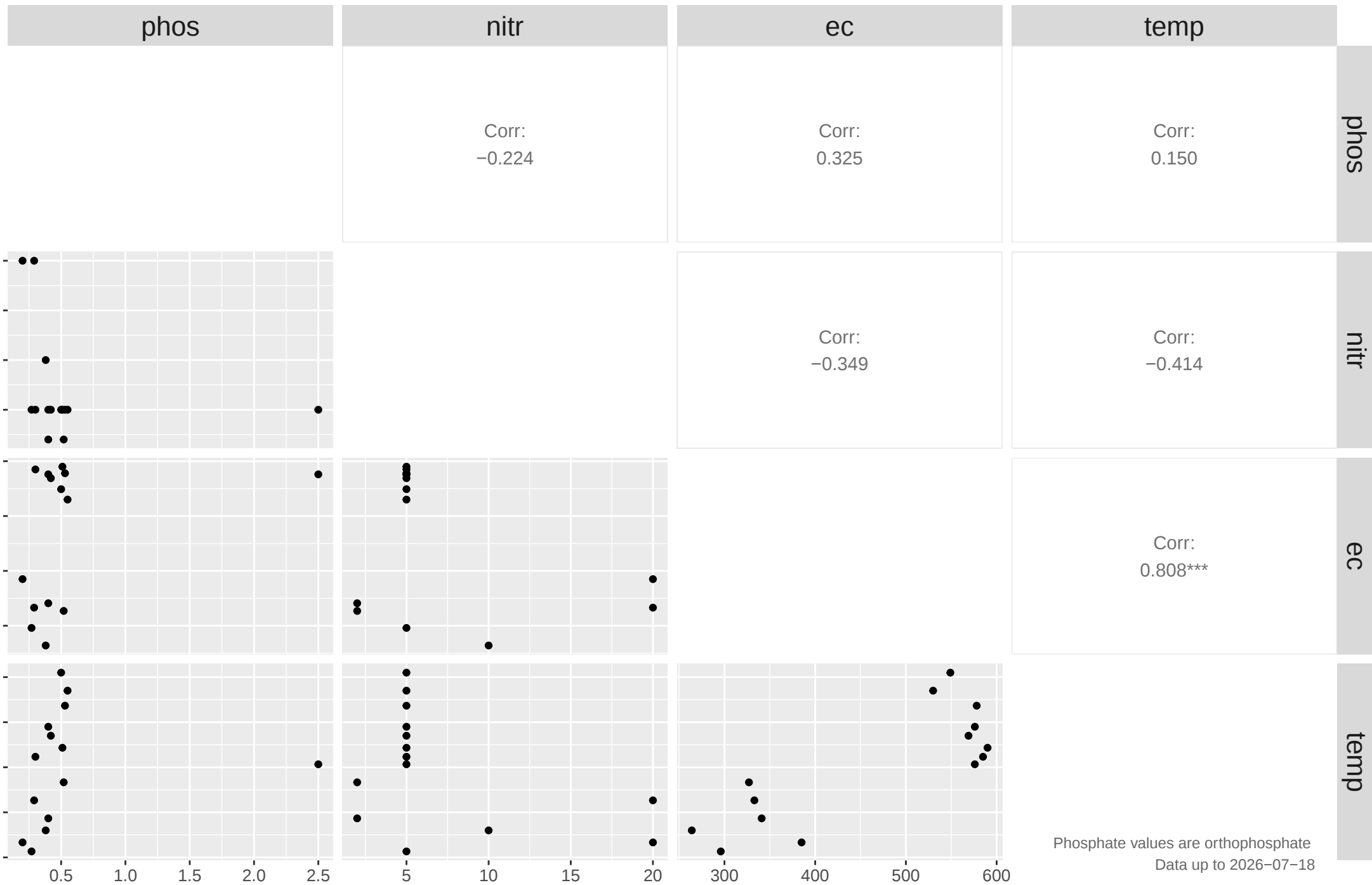
SafeAvon Nitrates By Month

Isbourne River – Evesham – Pershore Rd Bridge



Pairwise Testing Variables Relationships

Isbourne River – Evesham – Pershore Rd Bridge



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