

SafeAvon Nutrient Testing Report: Stretton-on-Fosse

SafeAvon Sites By Waterway

Stour River

- . Stretton-on-Fosse – Above Works
- . Stretton-on-Fosse – Below Works

SafeAvon Locations in Stretton-on-Fosse

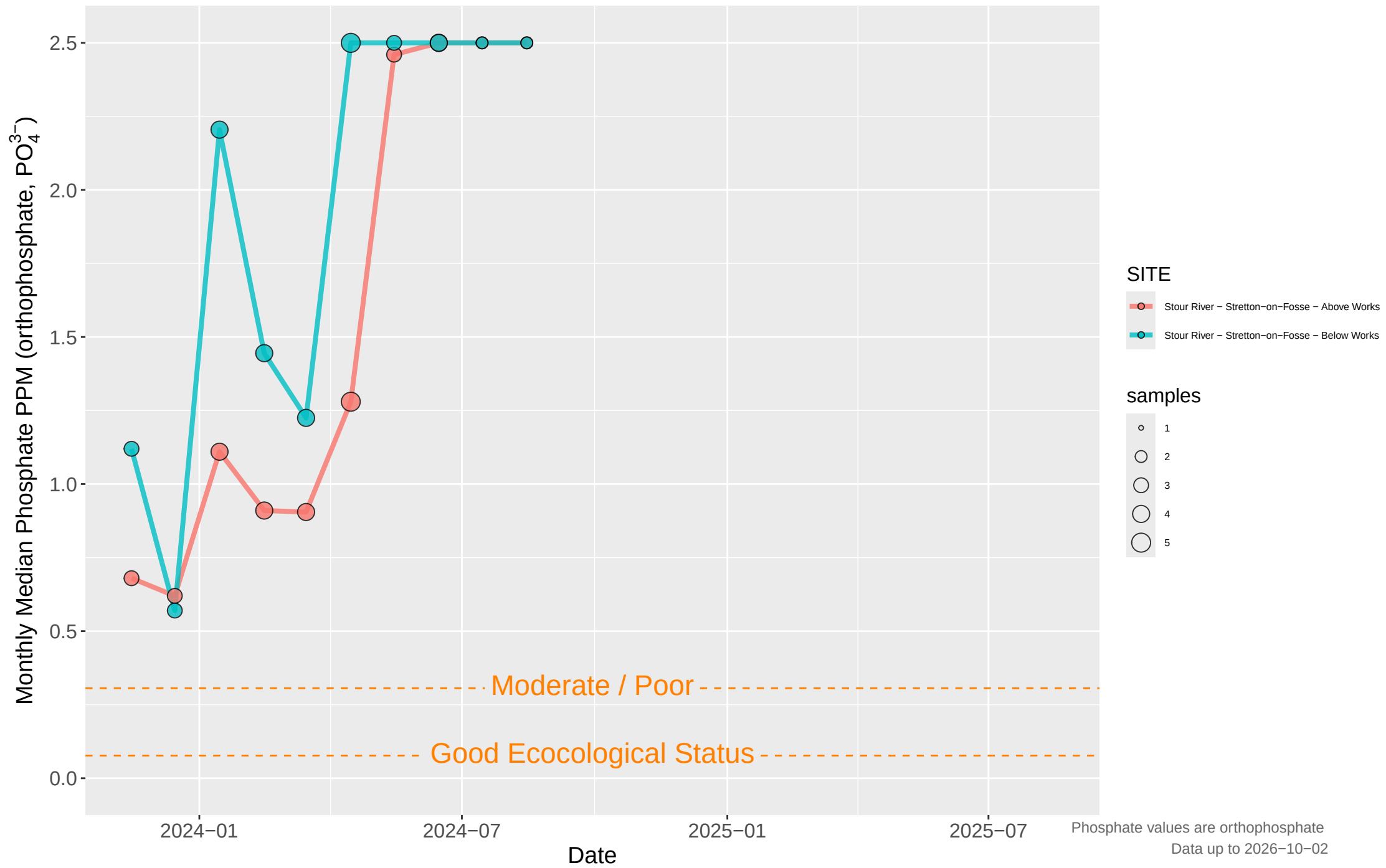


Summary for sites in Stretton-on-Fosse

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Stour River – Stretton-on-Fosse – Above Works	2023-11-14	2025-08-20	35	2	1.28	2
Stour River – Stretton-on-Fosse – Below Works	2023-11-14	2025-08-20	35	2	2.50	2

SafeAvon Phosphates – By Month

Stretton-on-Fosse



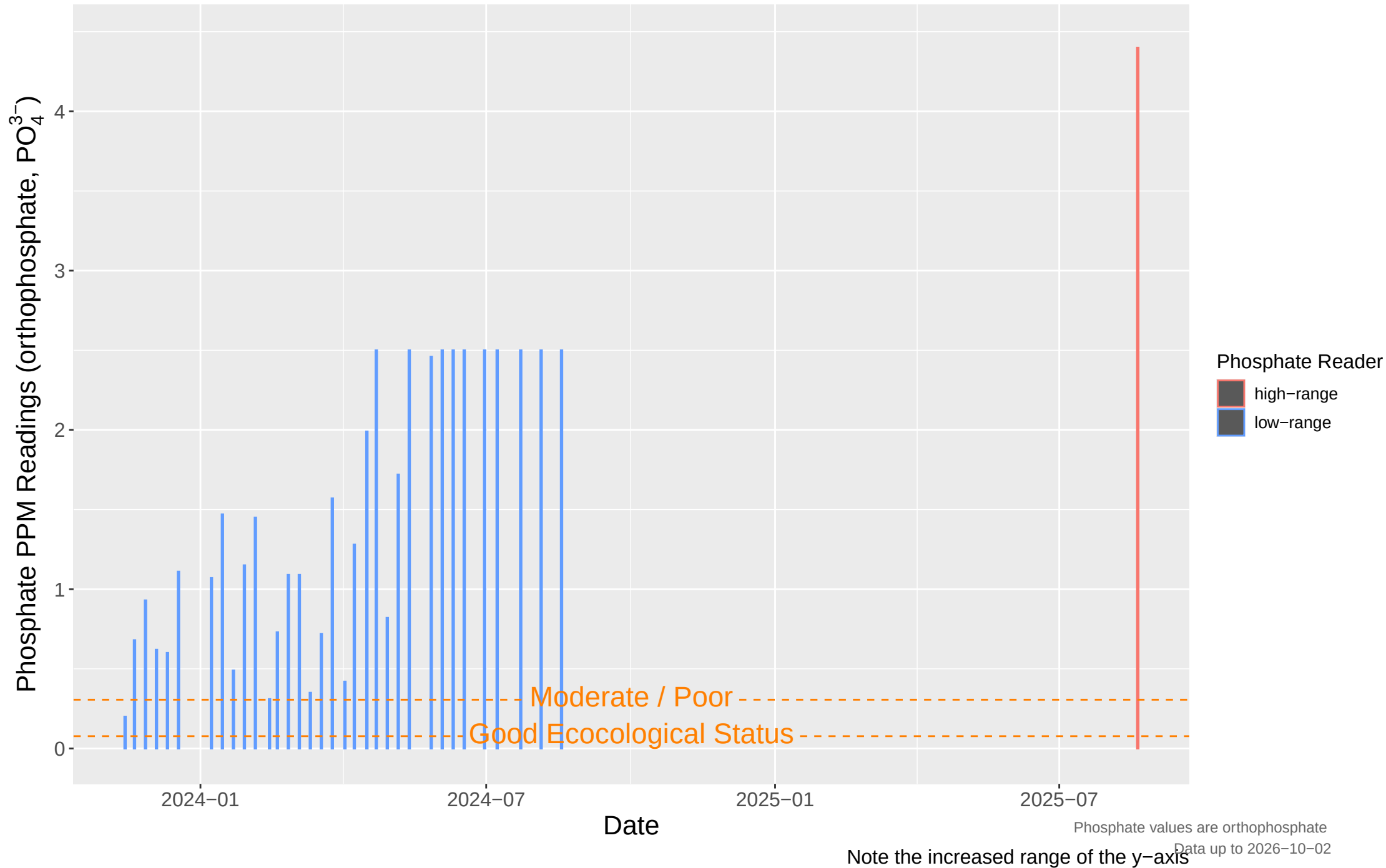
Site: Stour River – Stretton-on-Fosse – Above Works

Start Date: 2023-11-14 | Most Recent: 2025-08-20 | Total Samples: 35 | 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 23	3		0.20	0.68	0.93		2	2	5		394	573	668		9.3	10.2	10.5
Winter 23-24	11		0.31	1.07	1.47		2	2	2		319	564	751		4.3	8.8	11.2
Spring 24	12		0.35	1.43	2.50		1	2	2		418	656	760		5.5	9.8	14.5
Summer 24	8		2.50	2.50	2.50		0	1	2		684	701	776		12.6	14.1	18.5
Summer 25	1		4.40	4.40	4.40		2	2	2		780	780	780		17.7	17.7	17.7

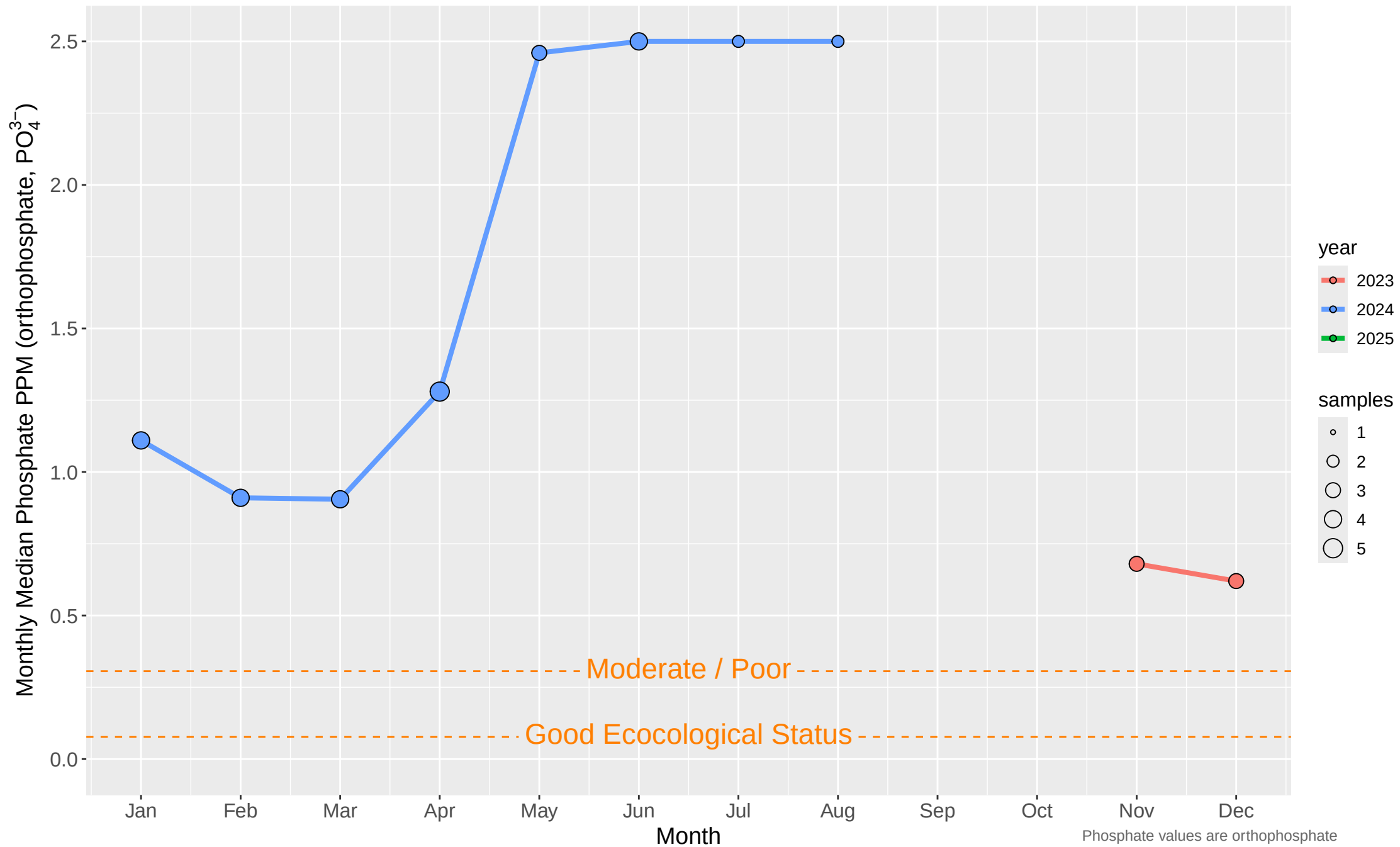
SafeAvon Phosphates – Individual Readings

Stour River – Stretton-on-Fosse – Above Works



SafeAvon Phosphates – By Month

Stour River – Stretton-on-Fosse – Above Works



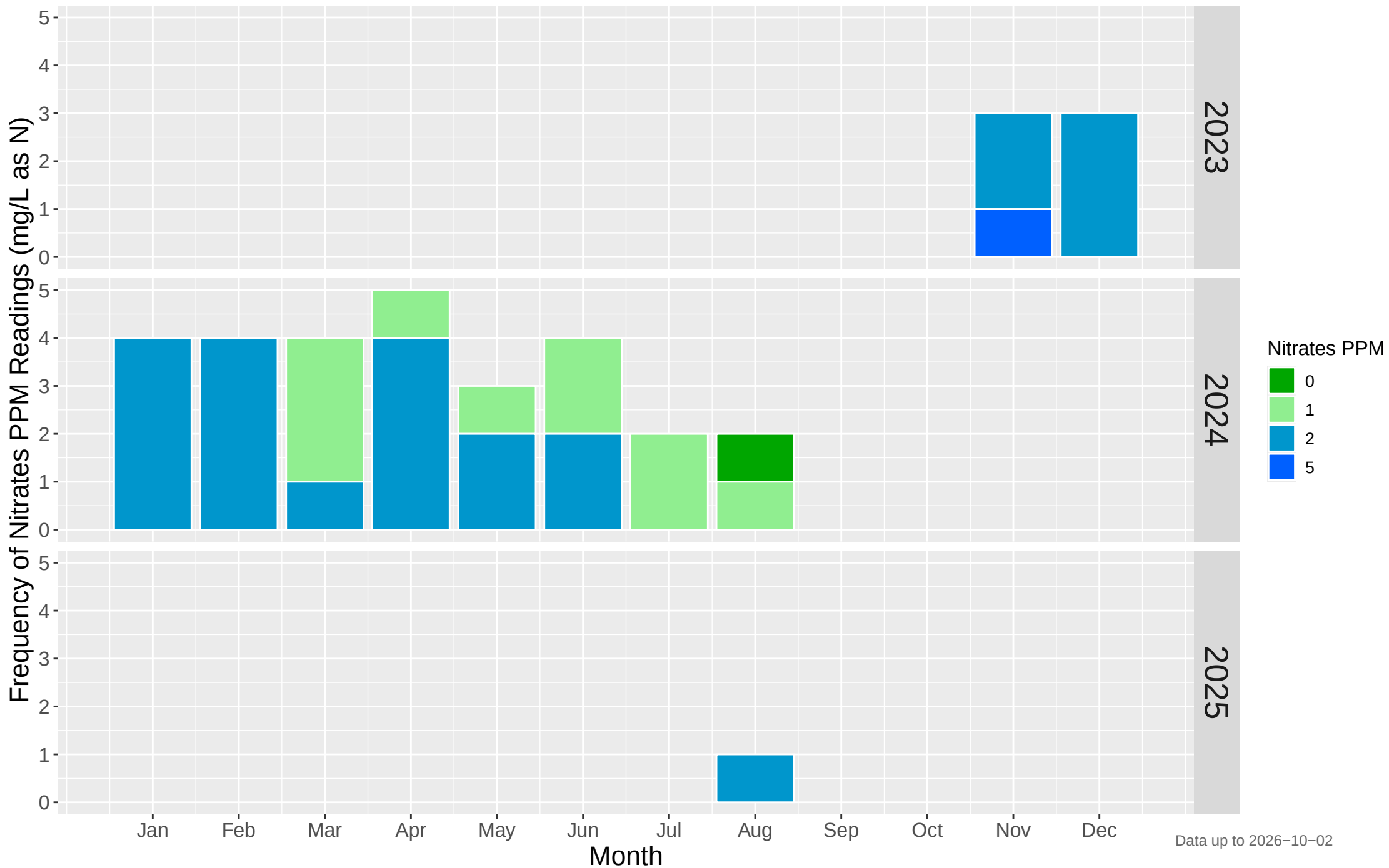
Phosphate values are orthophosphate

Data up to 2026-10-02

Note the increased range of the y-axis

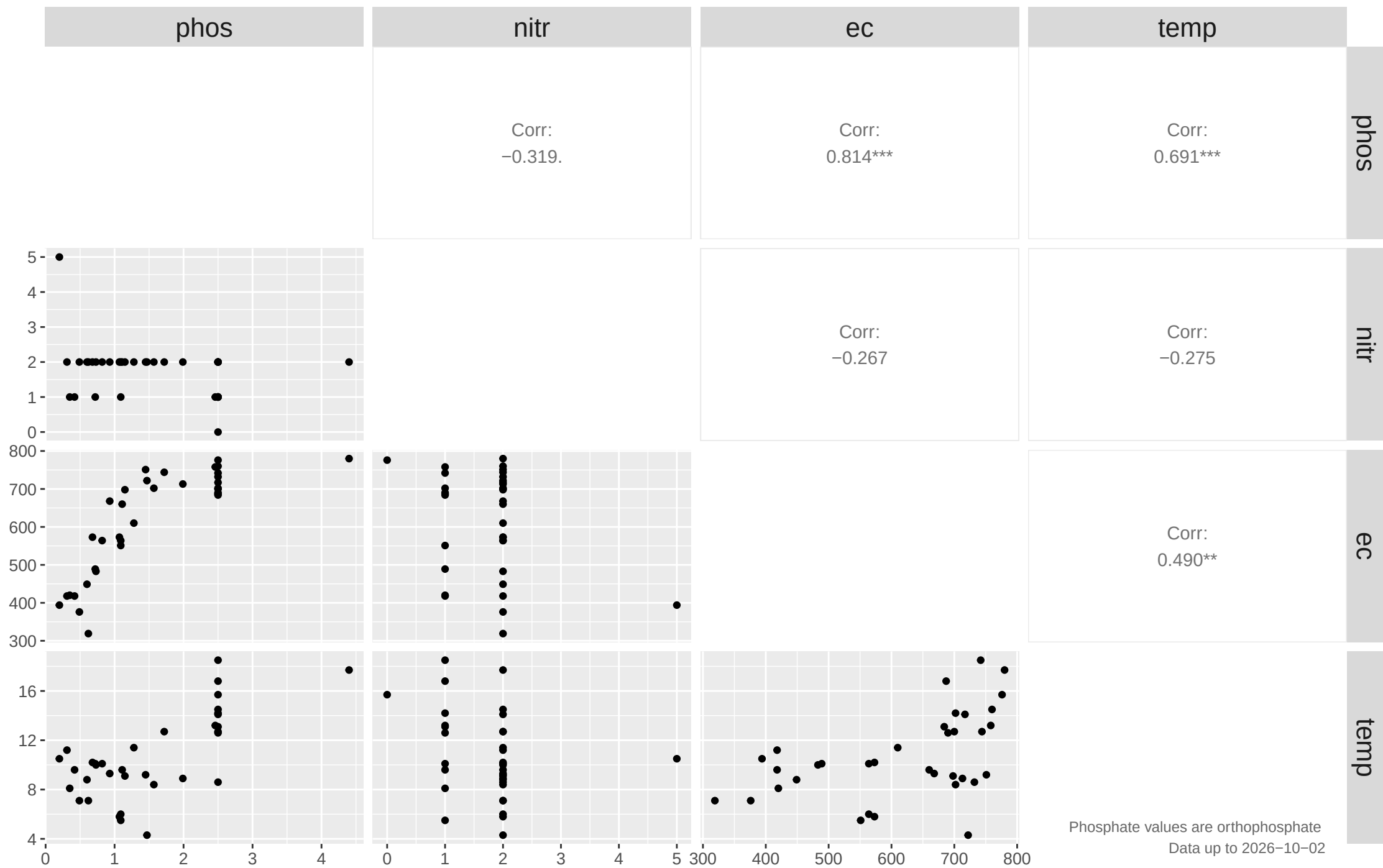
SafeAvon Nitrates By Month

Stour River – Stretton-on-Fosse – Above Works



Pairwise Testing Variables Relationships

Stour River – Stretton-on-Fosse – Above Works



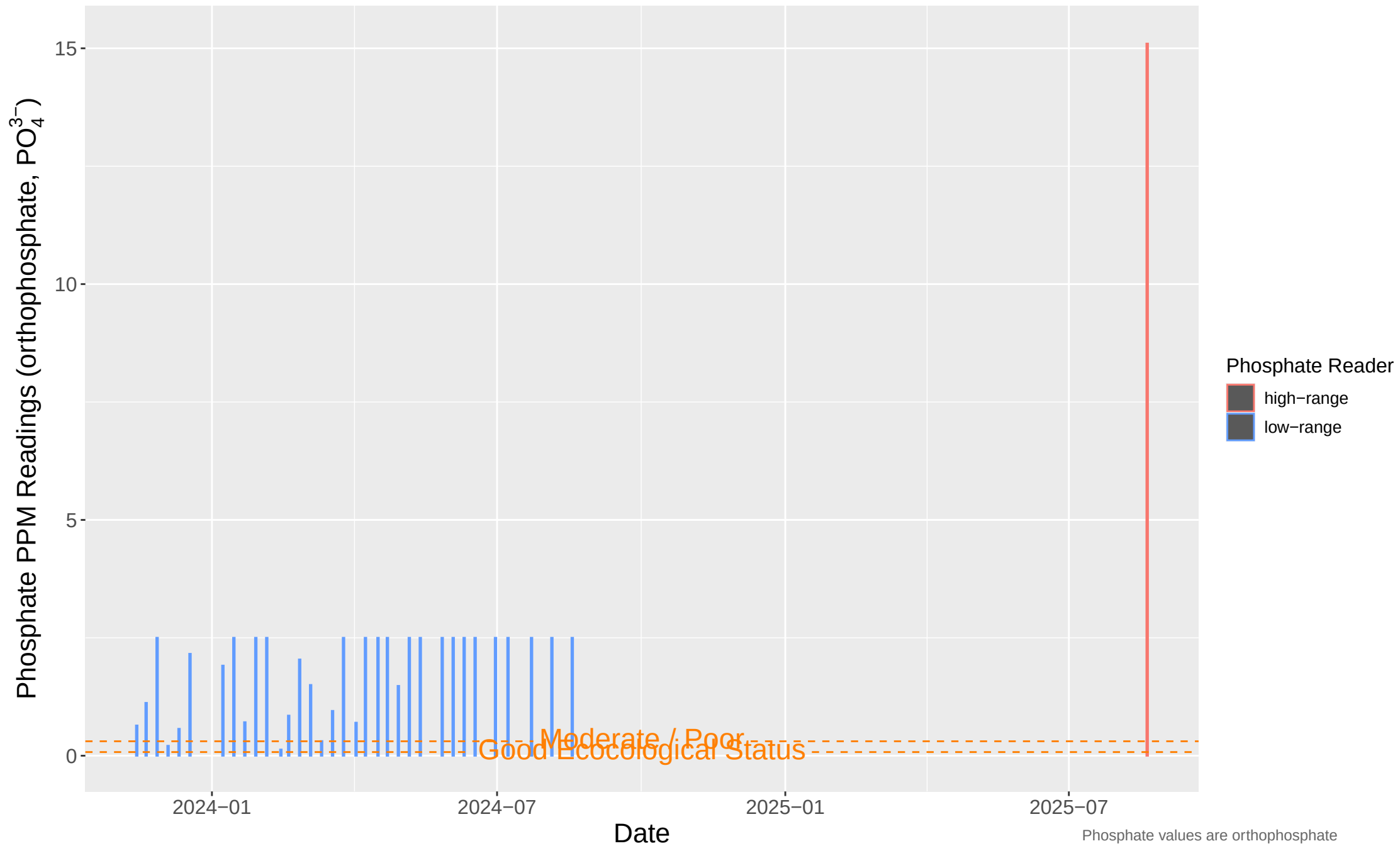
Site: Stour River – Stretton-on-Fosse – Below Works

Start Date: 2023-11-14 | Most Recent: 2025-08-20 | Total Samples: 35 | 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 23	3		0.64	1.12	2.5		5	5	5		453	556	703		8.6	10.3	10.5
Winter 23-24	11		0.13	1.91	2.5		2	2	5		298	628	787		3.5	8.3	11.2
Spring 24	12		0.31	2.50	2.5		1	2	5		425	715	850		5.1	9.6	14.3
Summer 24	8		2.50	2.50	2.5		1	2	5		739	846	932		13.7	15.6	19.4
Summer 25	1		15.10	15.10	15.1		10	10	10		1020	1020	1020		18.3	18.3	18.3

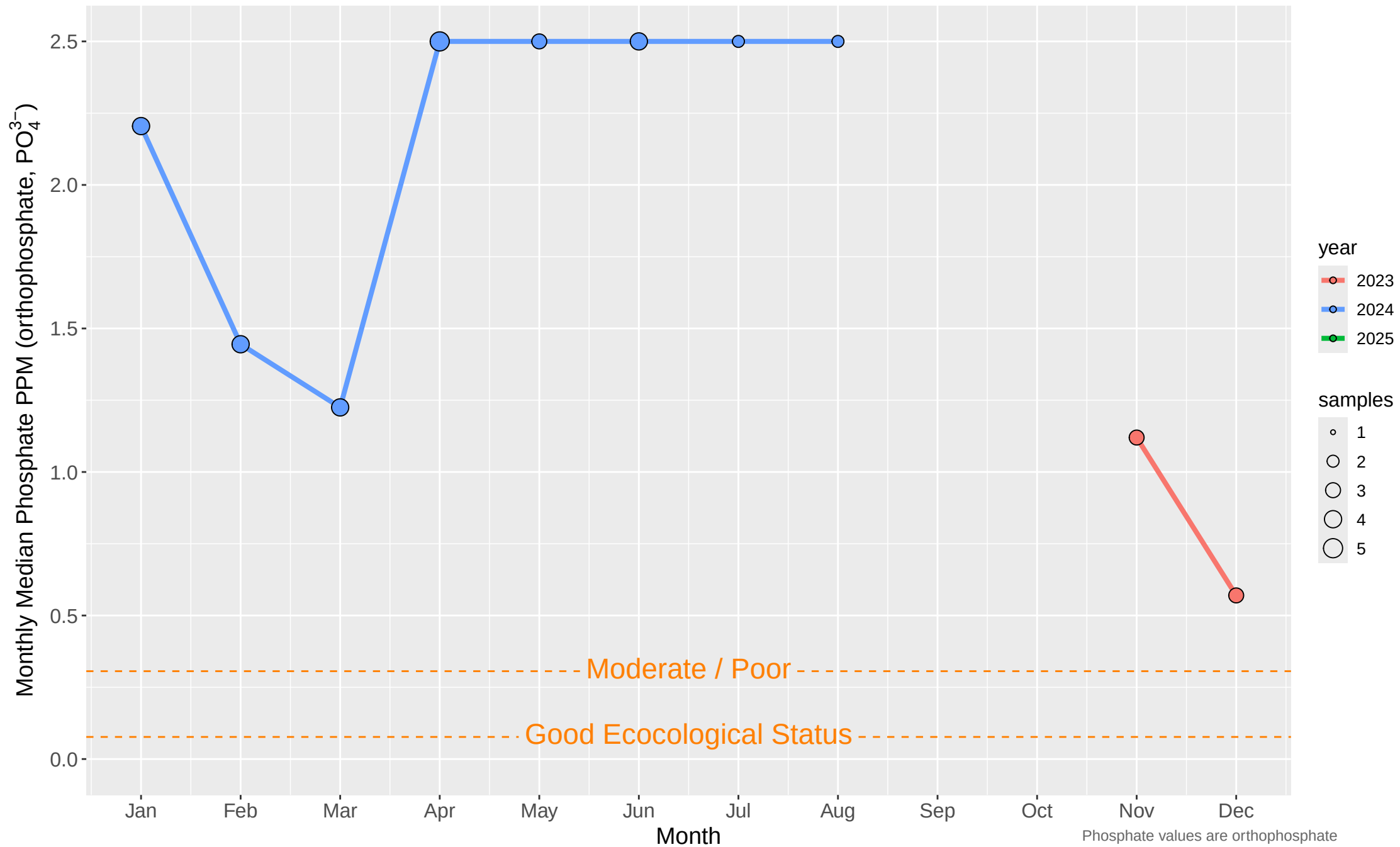
SafeAvon Phosphates – Individual Readings

Stour River – Stretton-on-Fosse – Below Works



SafeAvon Phosphates – By Month

Stour River – Stretton-on-Fosse – Below Works



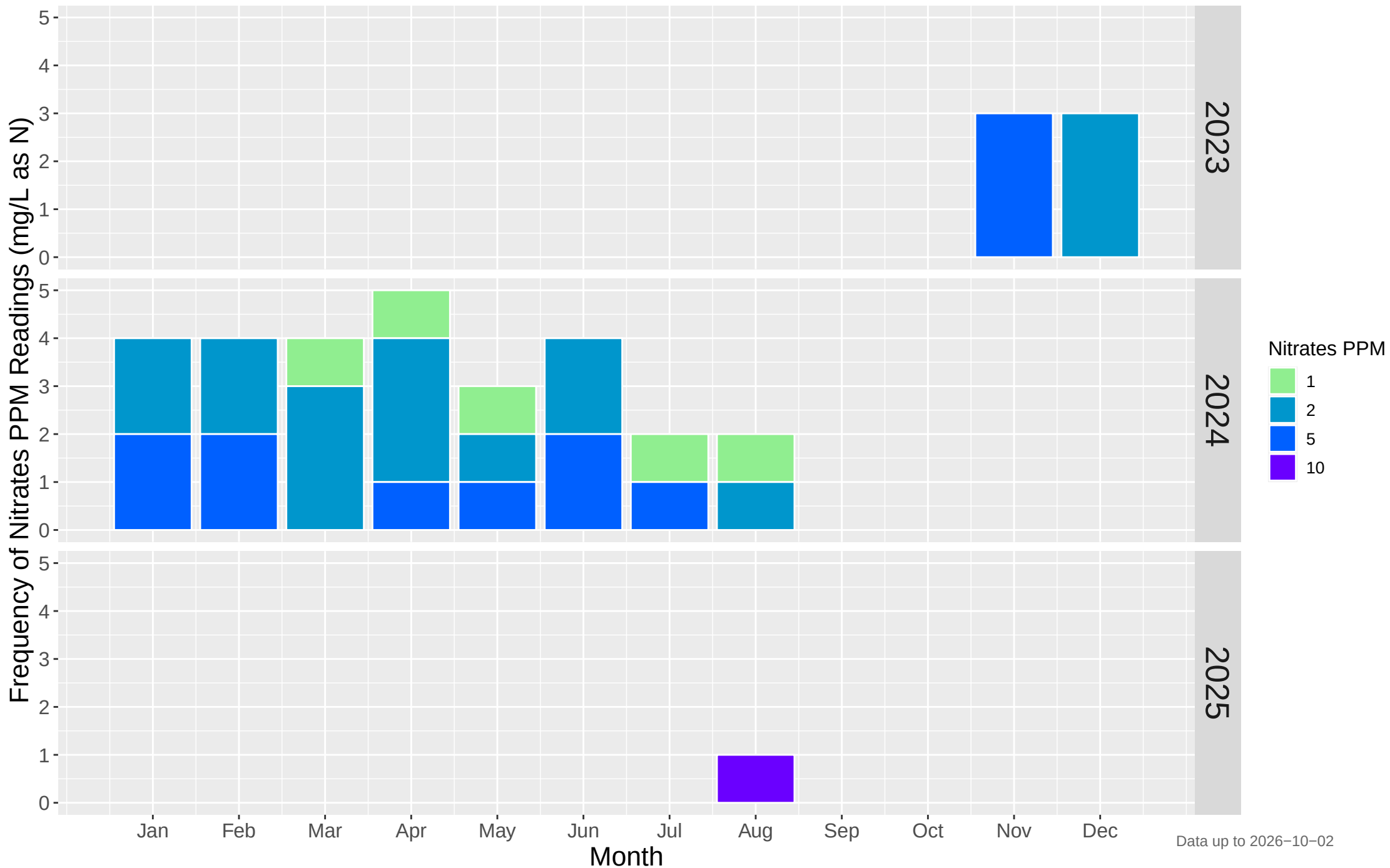
Phosphate values are orthophosphate

Data up to 2026-10-02

Note the increased range of the y-axis

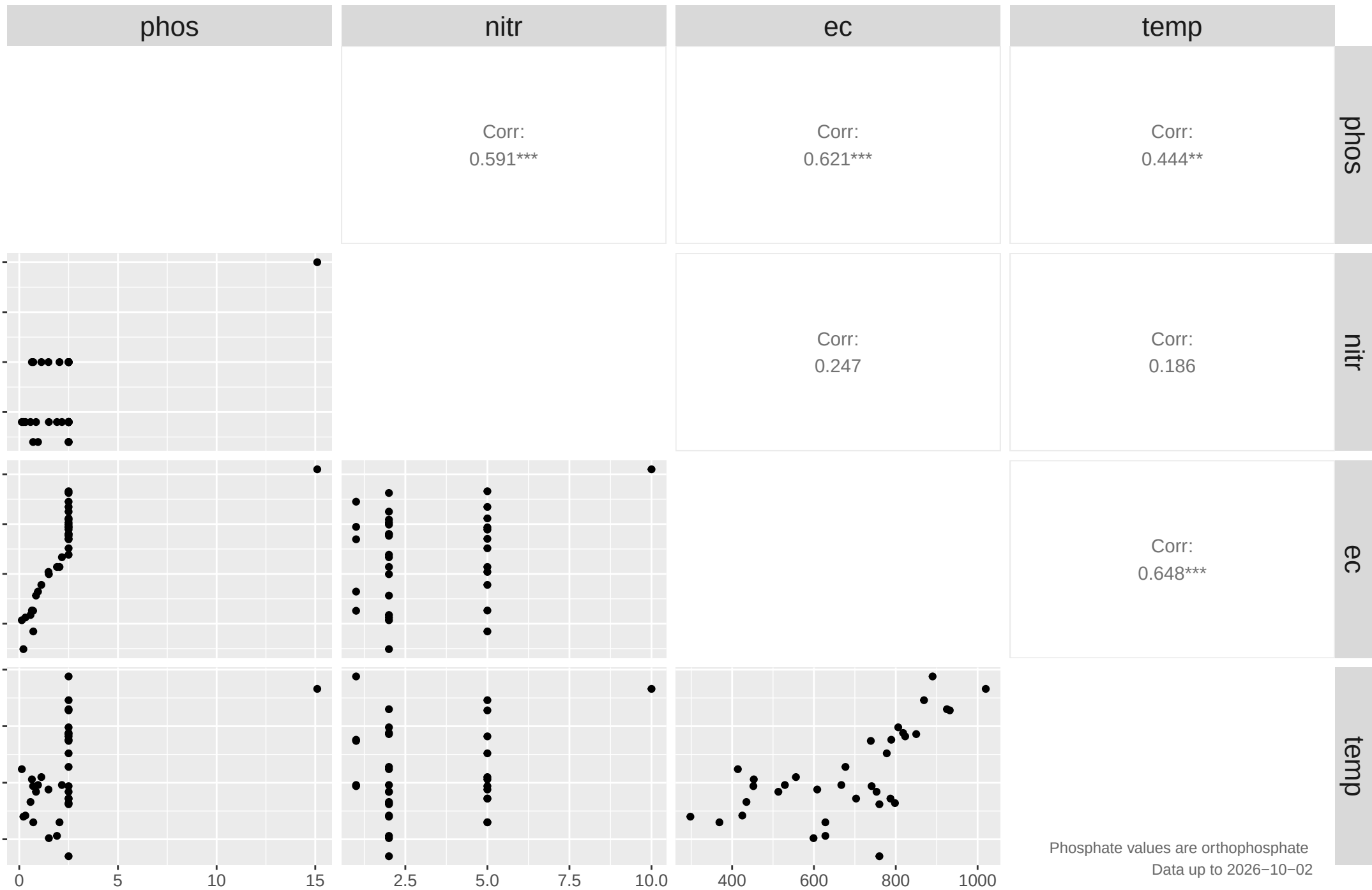
SafeAvon Nitrates By Month

Stour River – Stretton-on-Fosse – Below Works



Pairwise Testing Variables Relationships

Stour River – Stretton-on-Fosse – Below Works



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