

SafeAvon Nutrient Testing Report: Preston on Stour

SafeAvon Sites By Waterway

Stour River

. Preston on Stour – Preston Ln Bridge

SafeAvon Locations in Preston on Stour

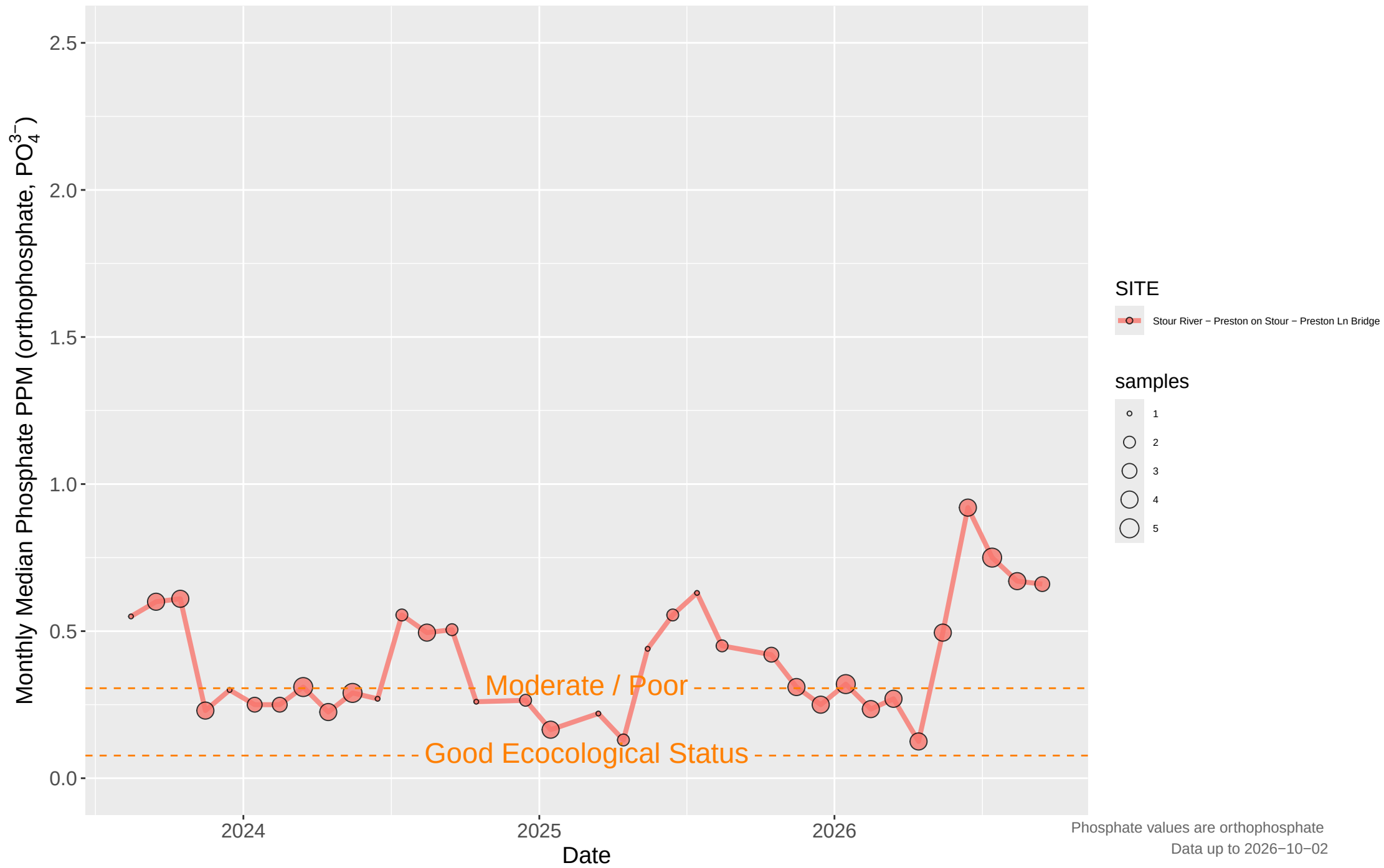


Summary for sites in Preston on Stour

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Stour River – Preston on Stour – Preston Ln Bridge	2023-08-31	2026-09-25	107	2	0.32	5

SafeAvon Phosphates – By Month

Preston on Stour



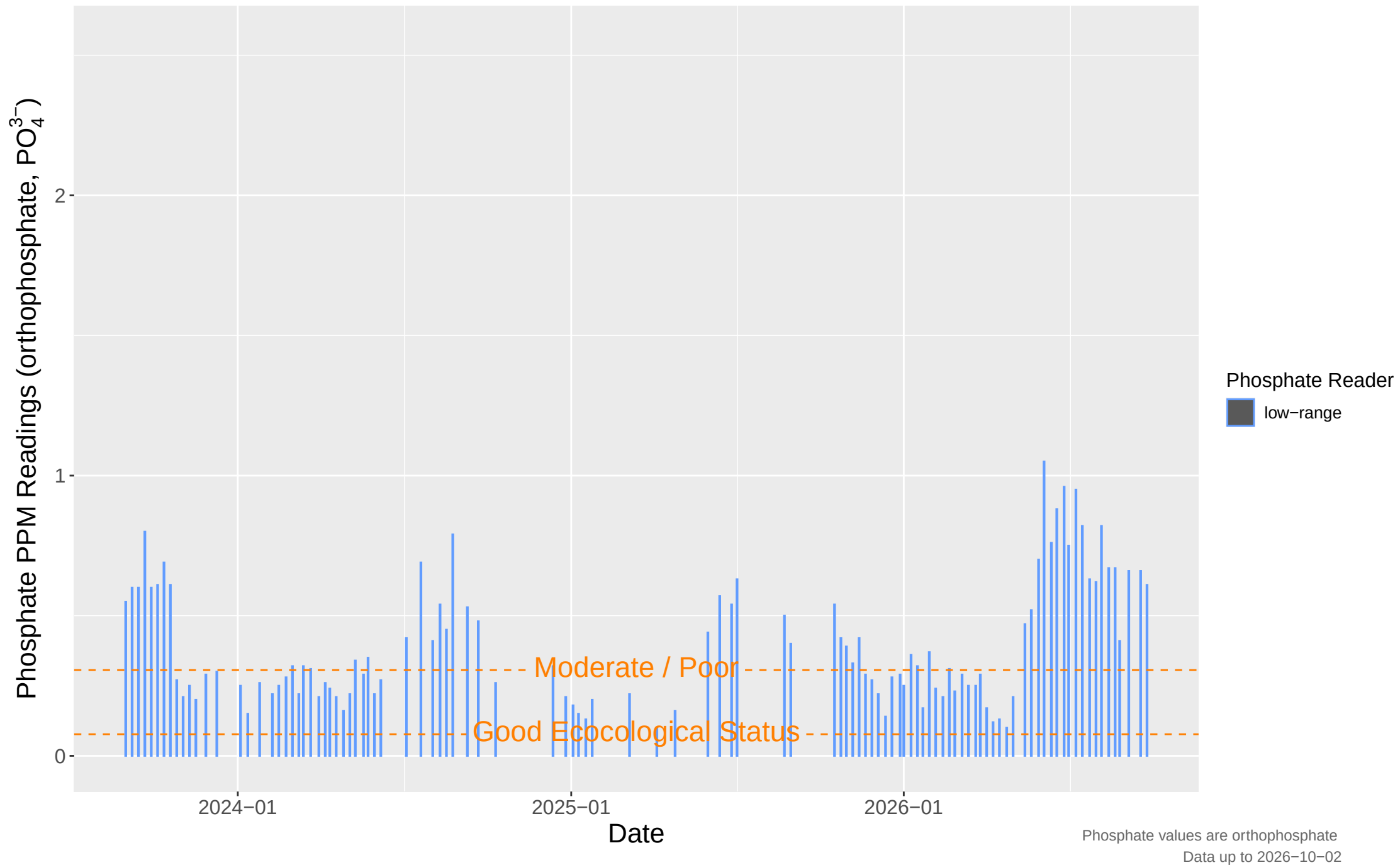
Site: Stour River – Preston on Stour – Preston Ln Bridge

Start Date: 2023-08-31 | Most Recent: 2026-09-25 | Total Samples: 107 | 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 23	1		0.55	0.55	0.55		5	5	5		699	699	699		16.0	16.0	16.0
Autumn 23	12		0.20	0.60	0.80		5	5	5		609	673	718		9.4	14.9	21.4
Winter 23-24	7		0.15	0.25	0.30		5	5	5		436	548	653		5.9	8.3	11.3
Spring 24	14		0.16	0.25	0.35		5	5	5		508	650	706		7.8	11.7	17.1
Summer 24	7		0.27	0.45	0.79		5	5	10		644	664	712		15.6	19.2	21.2
Autumn 24	3		0.26	0.48	0.53		5	5	5		525	694	711		13.3	16.5	16.7
Winter 24-25	6		0.13	0.19	0.32		5	5	10		605	639	682		4.4	6.7	9.5
Spring 25	4		0.10	0.19	0.44		5	5	5		621	668	701		8.3	12.3	19.0
Summer 25	5		0.40	0.54	0.63		2	5	5		574	587	770		17.4	18.7	21.3
Autumn 25	7		0.27	0.39	0.54		2	5	10		701	732	763		6.1	11.3	13.8
Winter 25-26	13		0.14	0.25	0.37		2	5	10		352	503	660		5.4	7.7	11.2
Spring 26	12		0.10	0.25	0.70		5	5	5		553	644	710		9.1	12.4	19.7
Summer 26	13		0.41	0.76	1.05		2	2	5		678	734	795		17.1	20.4	26.2
Autumn 26	3		0.61	0.66	0.66		2	2	5		710	760	773		16.4	17.5	17.8

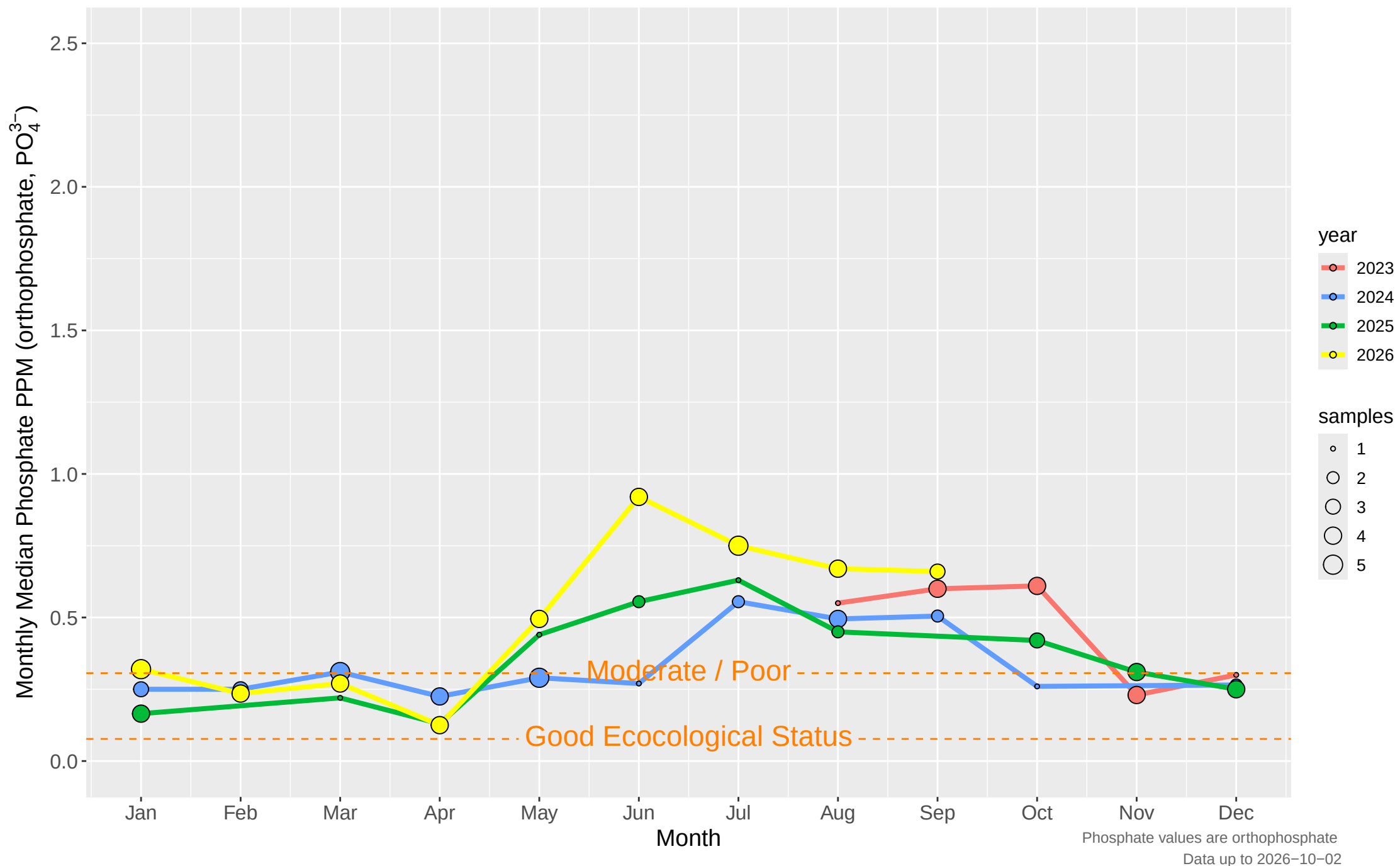
SafeAvon Phosphates – Individual Readings

Stour River – Preston on Stour – Preston Ln Bridge



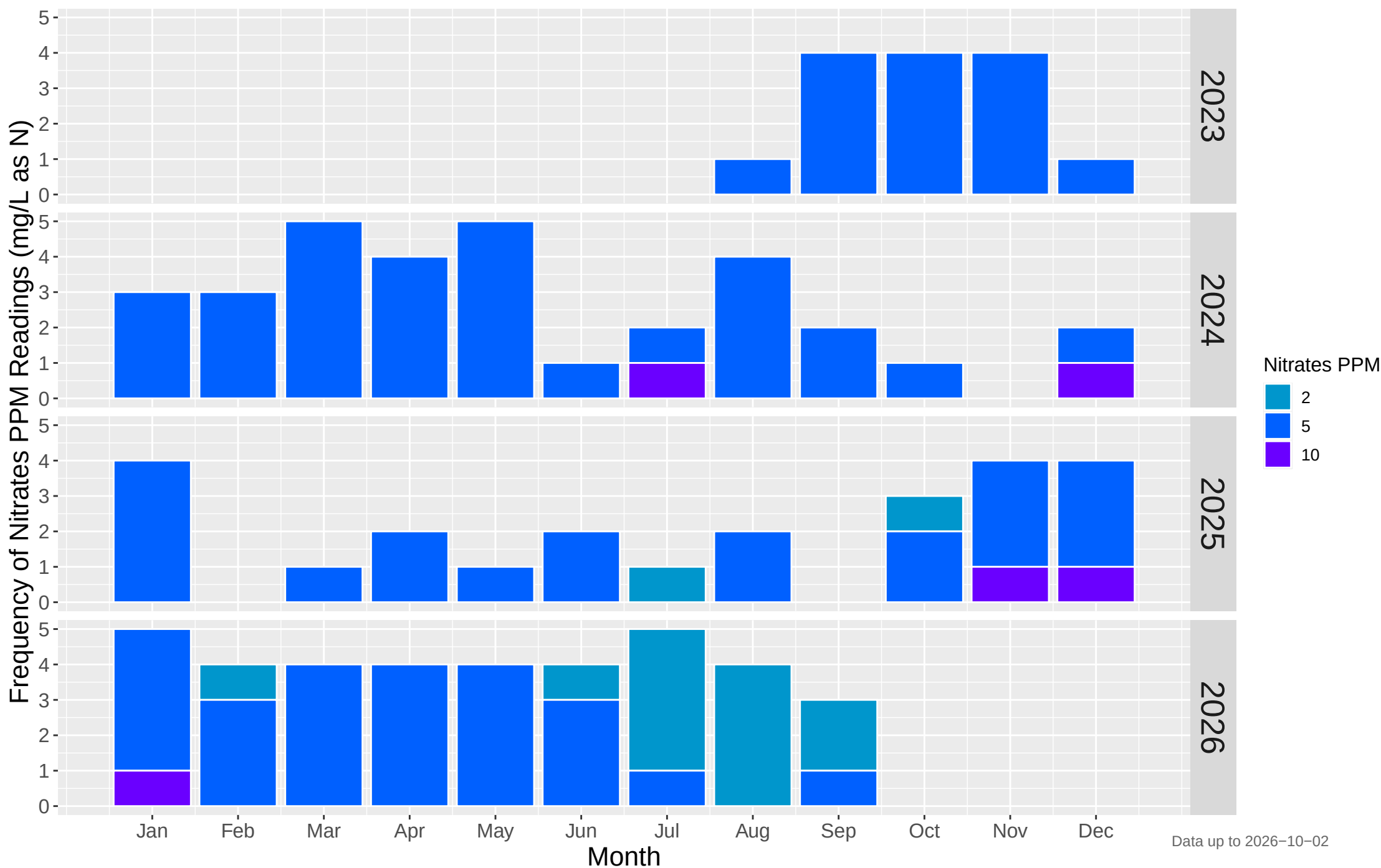
SafeAvon Phosphates – By Month

Stour River – Preston on Stour – Preston Ln Bridge



SafeAvon Nitrates By Month

Stour River – Preston on Stour – Preston Ln 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