

SafeAvon Nutrient Testing Report: Willington

SafeAvon Sites By Waterway

Stour River

. Willington – Willington

SafeAvon Locations in Willington

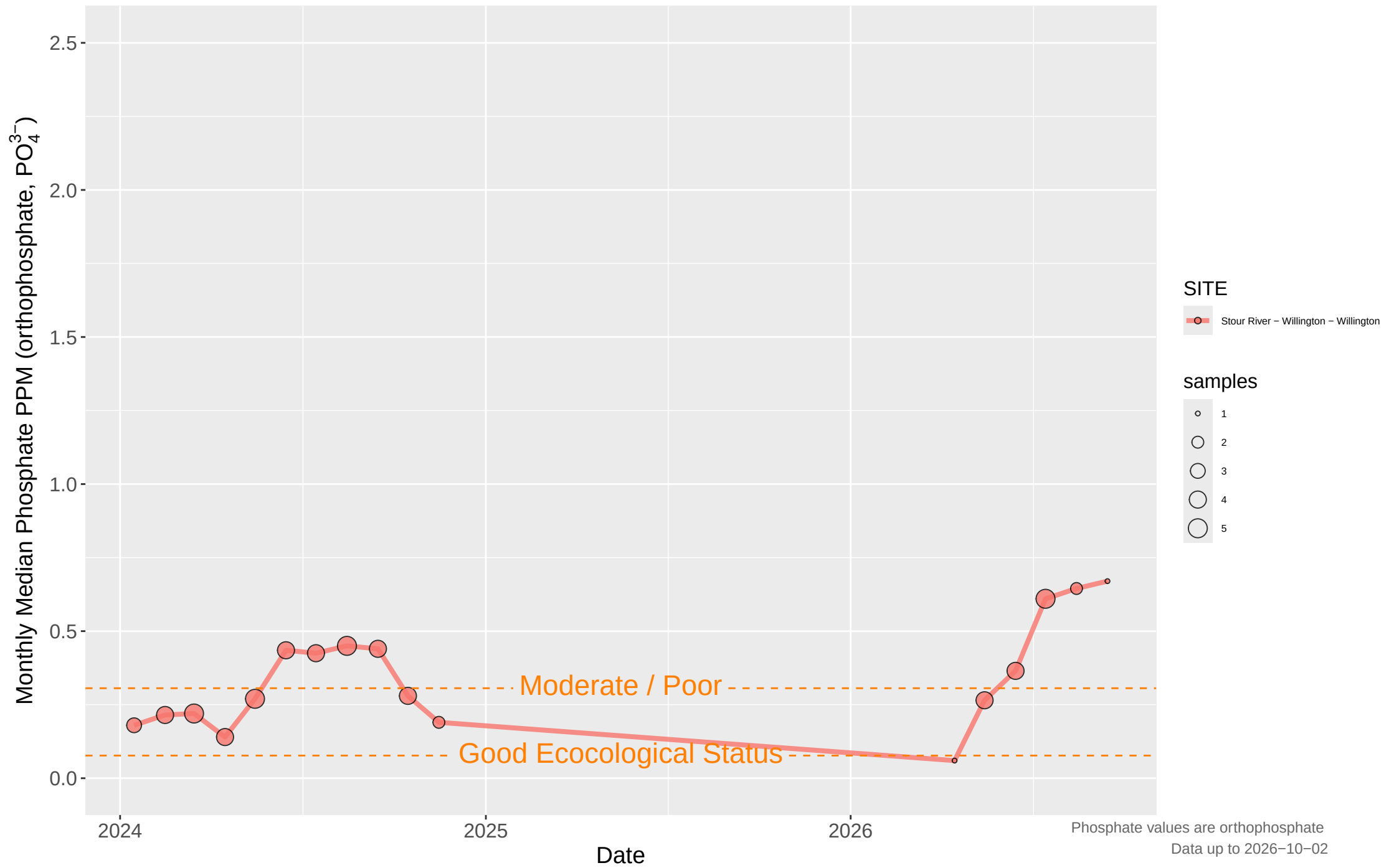


Summary for sites in Willington

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Stour River – Willington – Willington	2024-01-11	2026-09-02	61	3	0.32	2

SafeAvon Phosphates – By Month

Willington



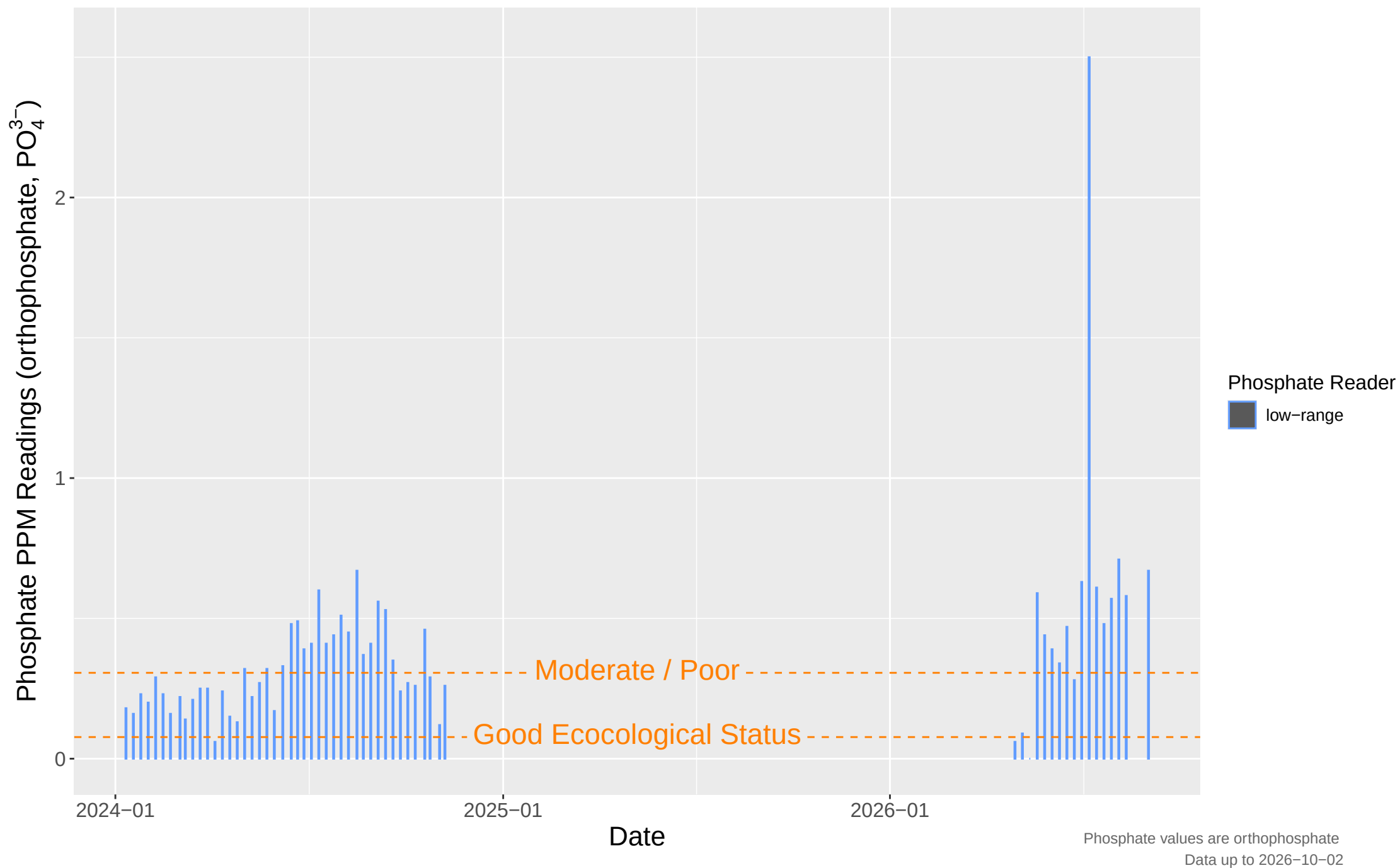
Site: Stour River – Willington – Willington

Start Date: 2024-01-11 | Most Recent: 2026-09-02 | Total Samples: 61 | 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
Winter 23-24	7		0.16	0.20	0.29		0	2	2		427	602	628		5.4	10.0	12.4
Spring 24	14		0.06	0.22	0.32		1	2	5		325	584	661		8.7	12.9	16.4
Summer 24	13		0.33	0.44	0.67		2	2	5		543	619	645		15.2	16.3	19.8
Autumn 24	10		0.12	0.28	0.56		2	2	2		409	597	637		12.4	13.7	15.2
Spring 26	5		0.00	0.09	0.59		5	5	10		557	610	654		12.4	14.3	20.8
Summer 26	11		0.28	0.57	2.50		2	5	10		595	638	659		15.4	19.6	23.5
Autumn 26	1		0.67	0.67	0.67		5	5	5		662	662	662		17.4	17.4	17.4

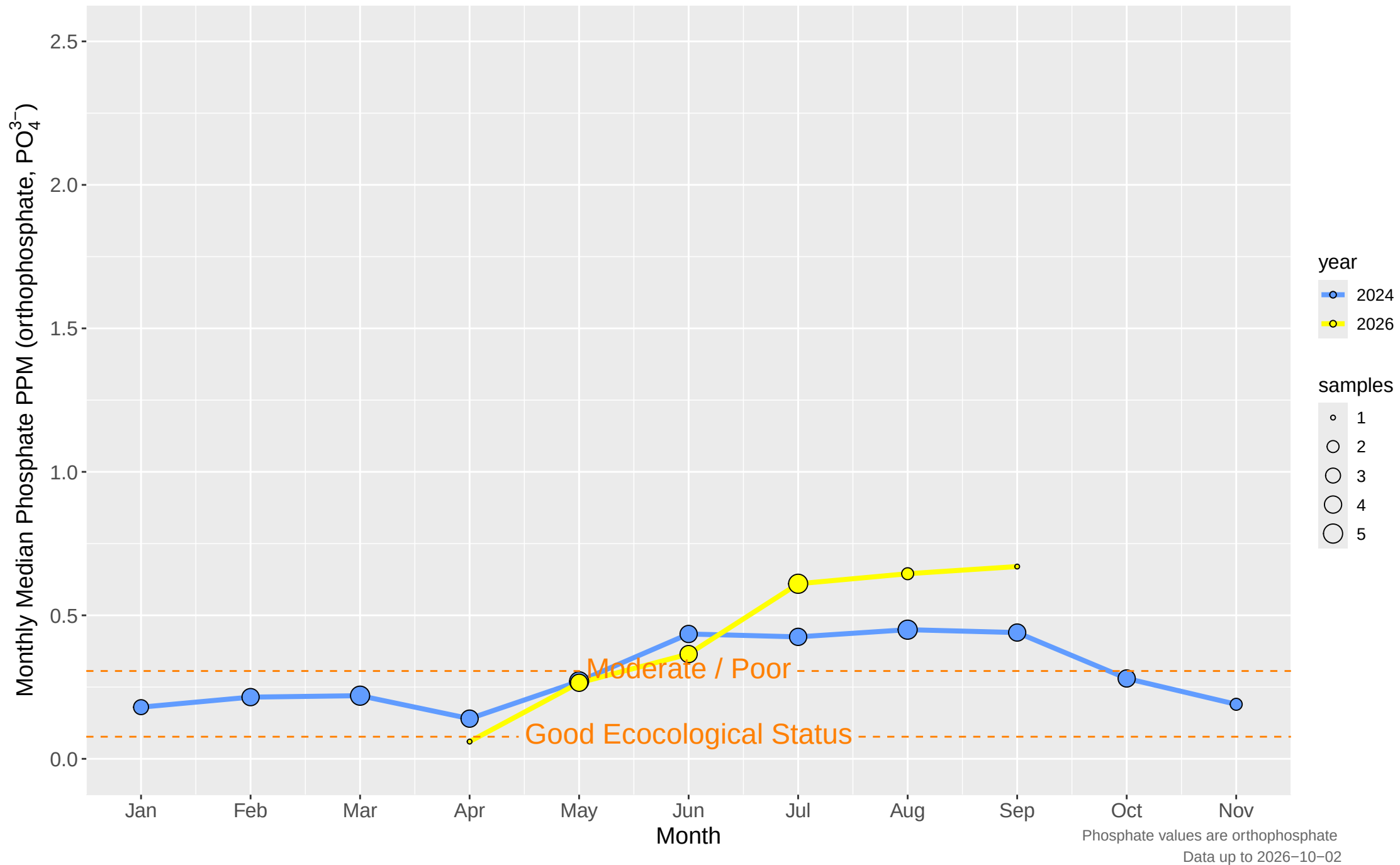
SafeAvon Phosphates – Individual Readings

Stour River – Willington – Willington



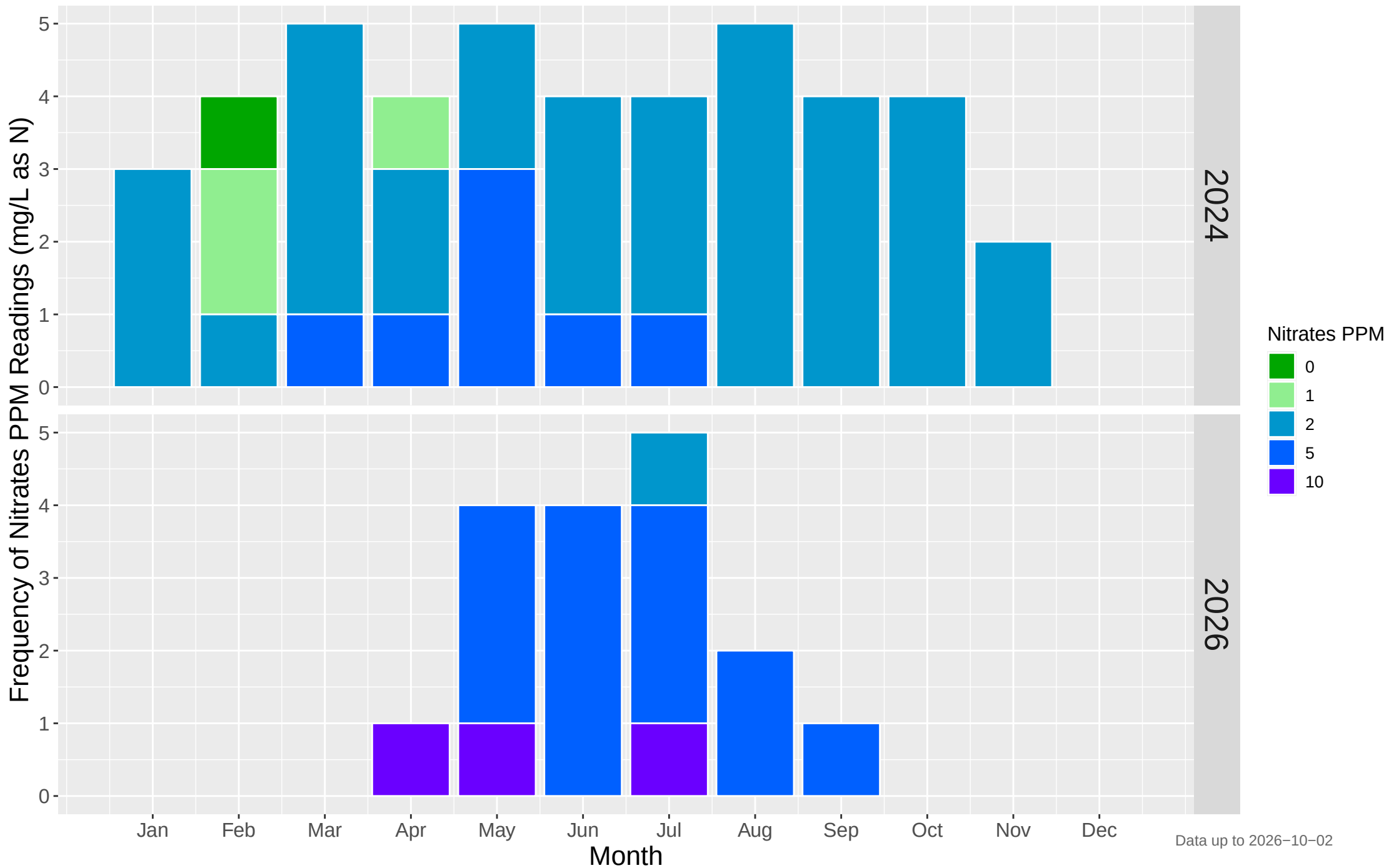
SafeAvon Phosphates – By Month

Stour River – Willington – Willington



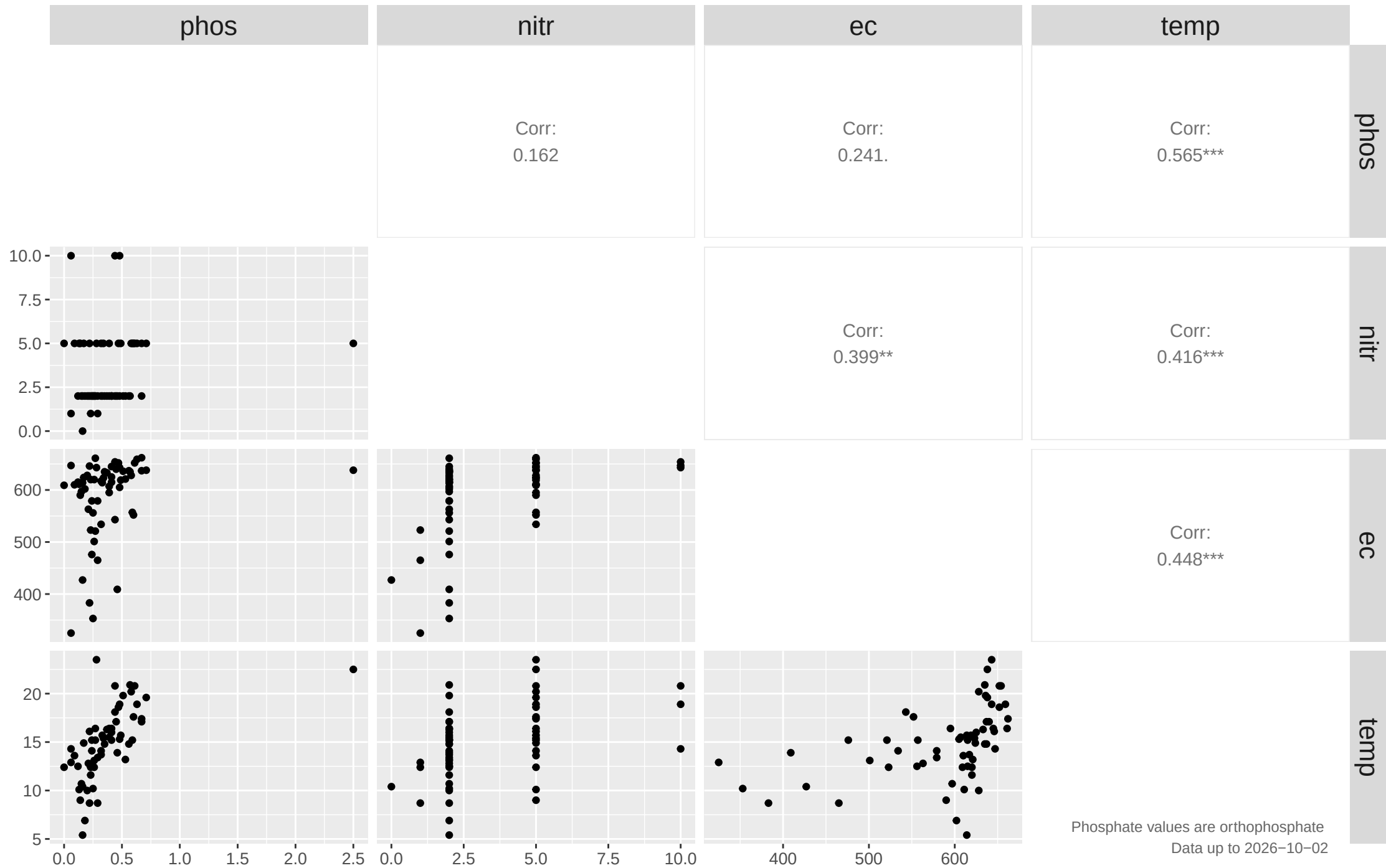
SafeAvon Nitrates By Month

Stour River – Willington – Willington



Pairwise Testing Variables Relationships

Stour River – Willington – Willington



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