

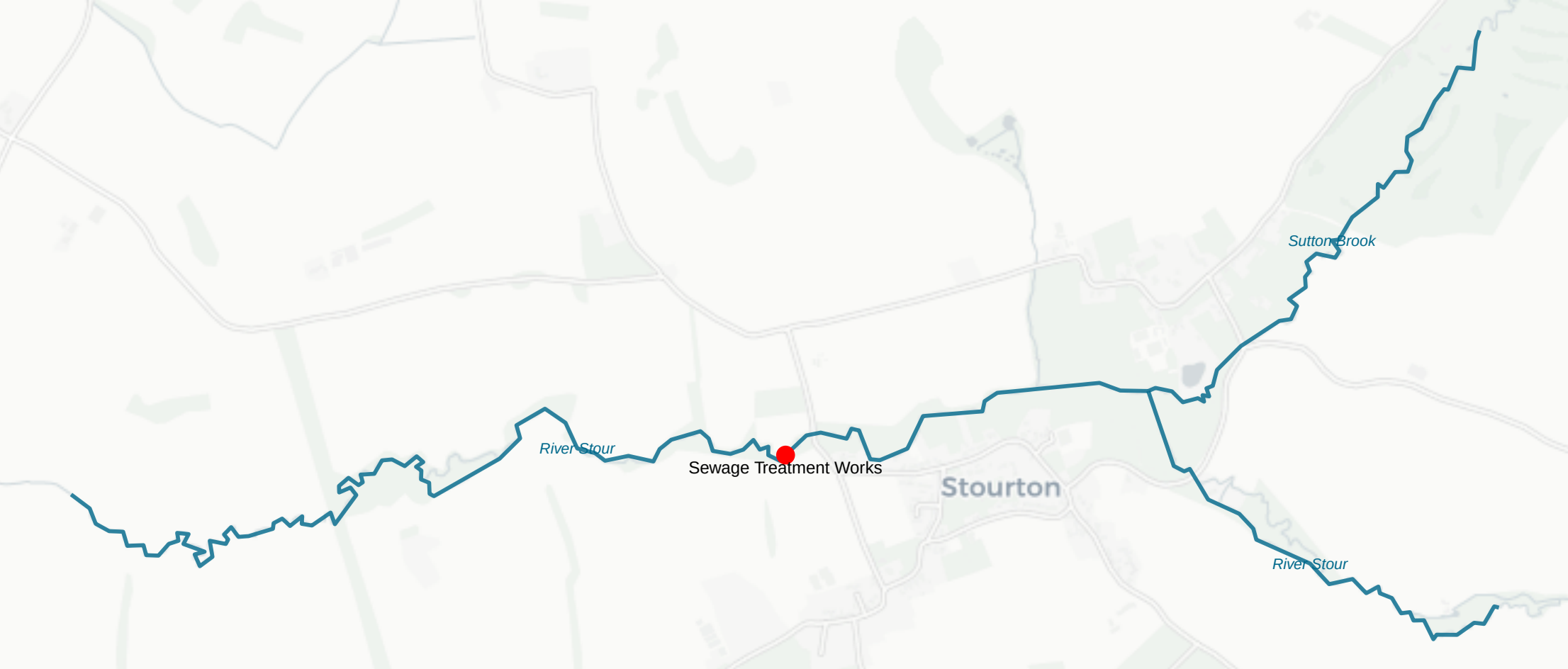
SafeAvon Nutrient Testing Report: Cherington

SafeAvon Sites By Waterway

Stour River

. Cherington – Sewage Treatment Works

SafeAvon Locations in Cherington

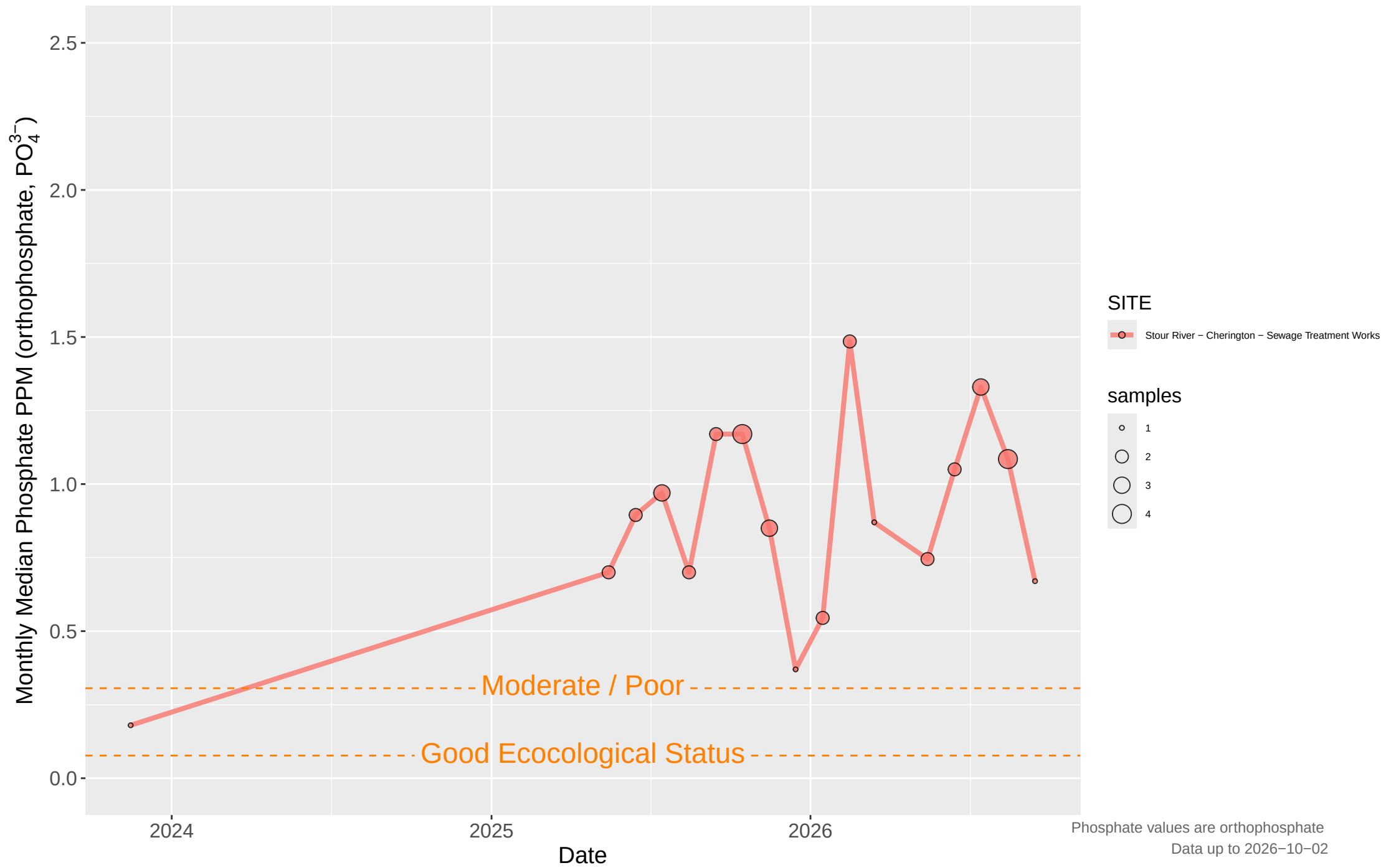


Summary for sites in Cherington

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Stour River – Cherington – Sewage Treatment Works	2023-11-09	2026-09-26	37	3	0.88	5

SafeAvon Phosphates – By Month

Cherington



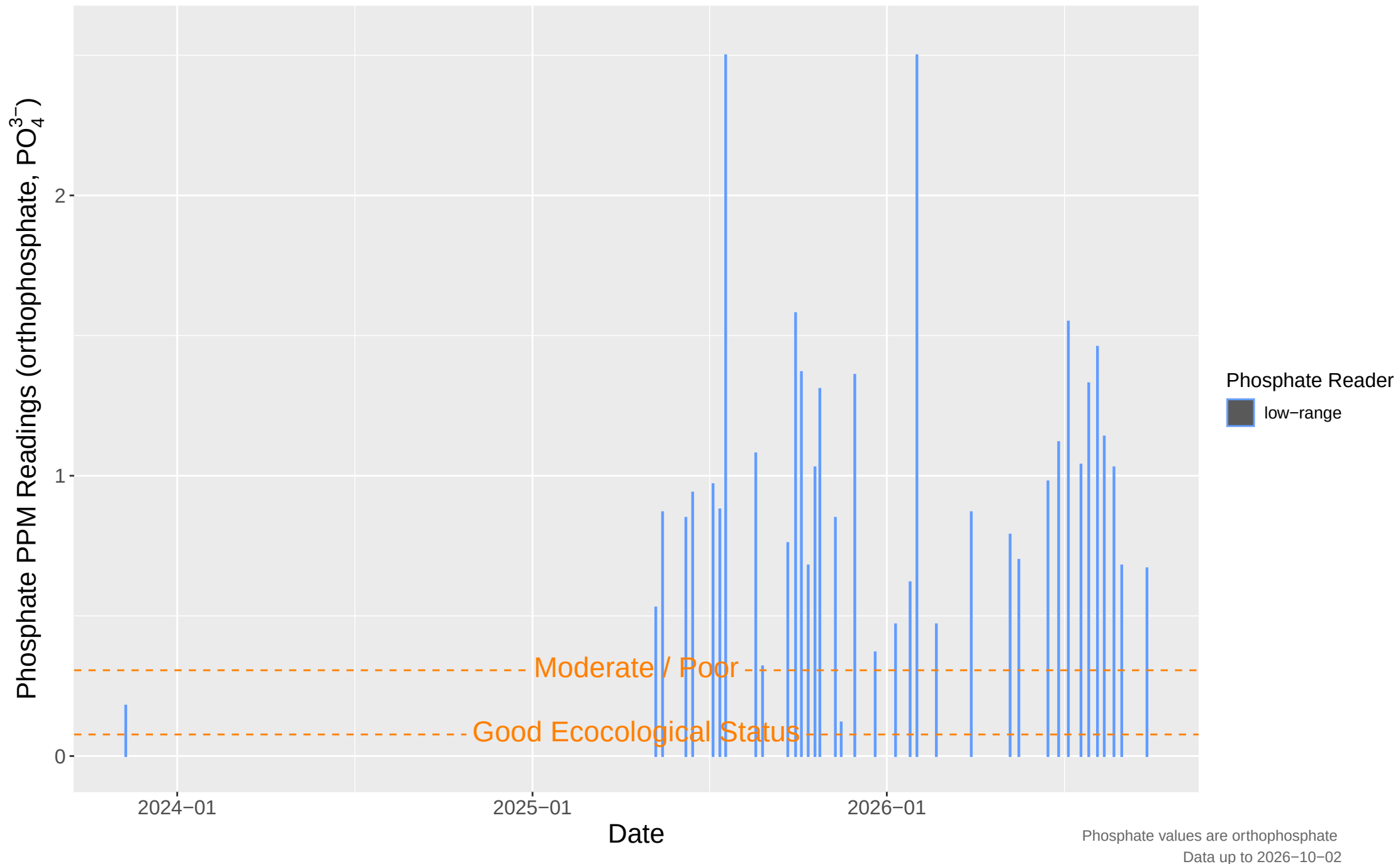
Site: Stour River – Cherington – Sewage Treatment Works

Start Date: 2023-11-09 | Most Recent: 2026-09-26 | Total Samples: 37 | 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
Autumn 23	1		0.18	0.18	0.18		NA	NA	NA		295	295	295		10.7	10.7	10.7
Spring 25	2		0.53	0.70	0.87		1	3	5		509	611	713		12.5	13.3	14.1
Summer 25	7		0.32	0.94	2.50		1	5	10		703	731	869		12.8	17.3	18.9
Autumn 25	9		0.12	1.03	1.58		2	5	10		541	726	751		9.0	11.5	13.4
Winter 25-26	5		0.37	0.47	2.50		2	5	5		225	535	560		5.4	8.4	10.2
Spring 26	3		0.70	0.79	0.87		5	5	5		612	674	678		8.5	12.1	13.8
Summer 26	9		0.68	1.12	1.55		5	5	5		598	734	775		14.5	17.7	23.5
Autumn 26	1		0.67	0.67	0.67		5	5	5		829	829	829		15.1	15.1	15.1

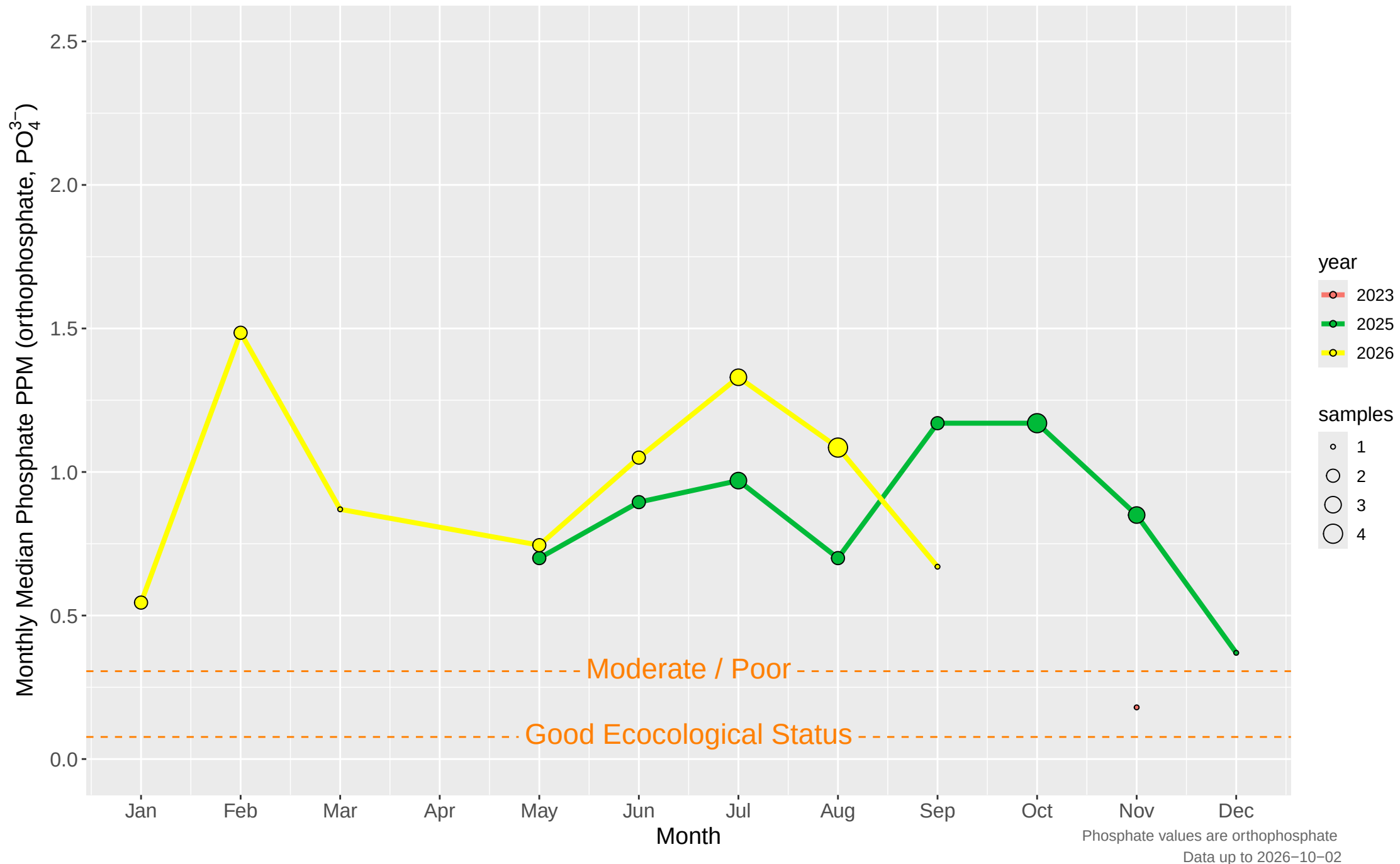
SafeAvon Phosphates – Individual Readings

Stour River – Cherington – Sewage Treatment Works



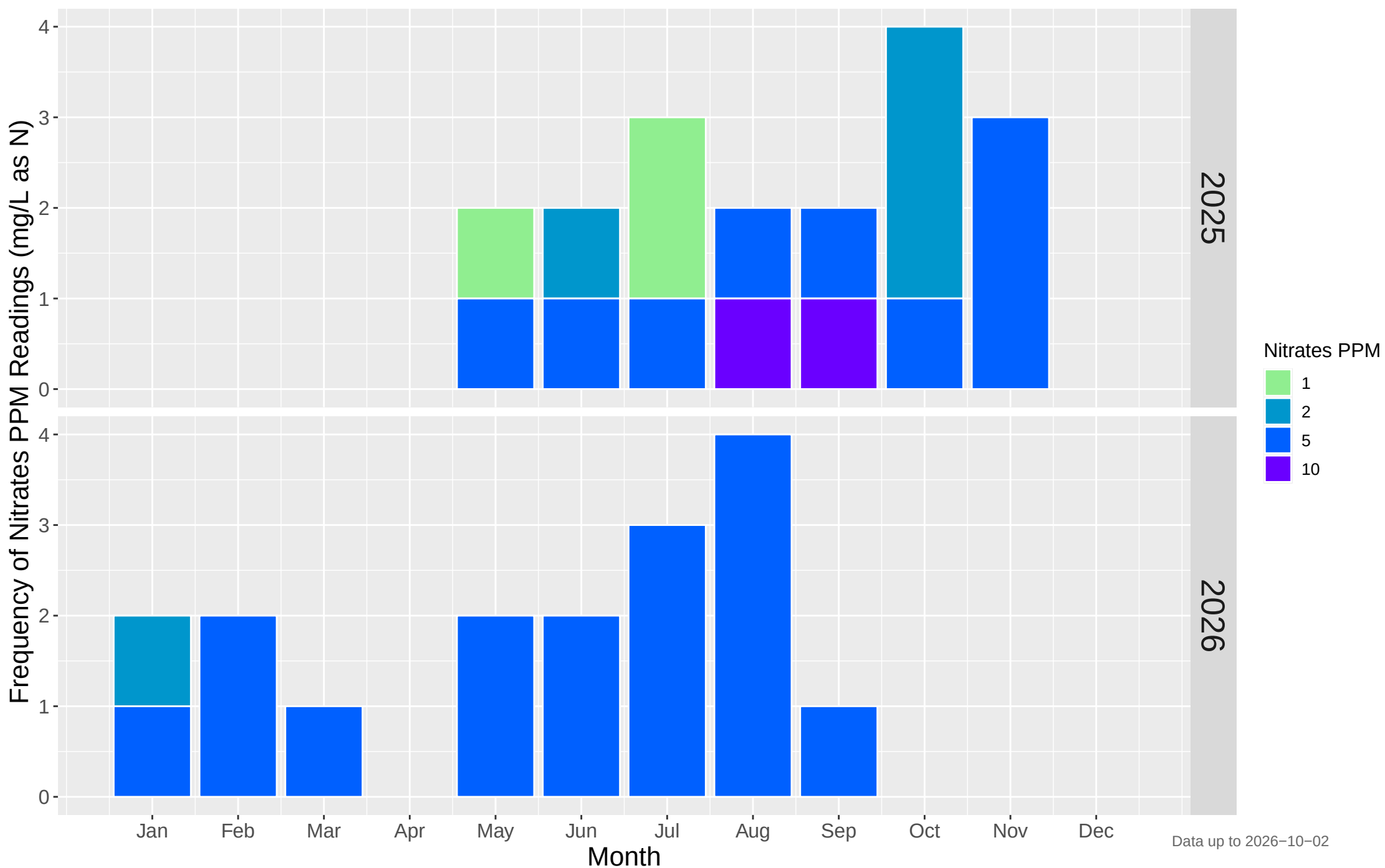
SafeAvon Phosphates – By Month

Stour River – Cherington – Sewage Treatment Works



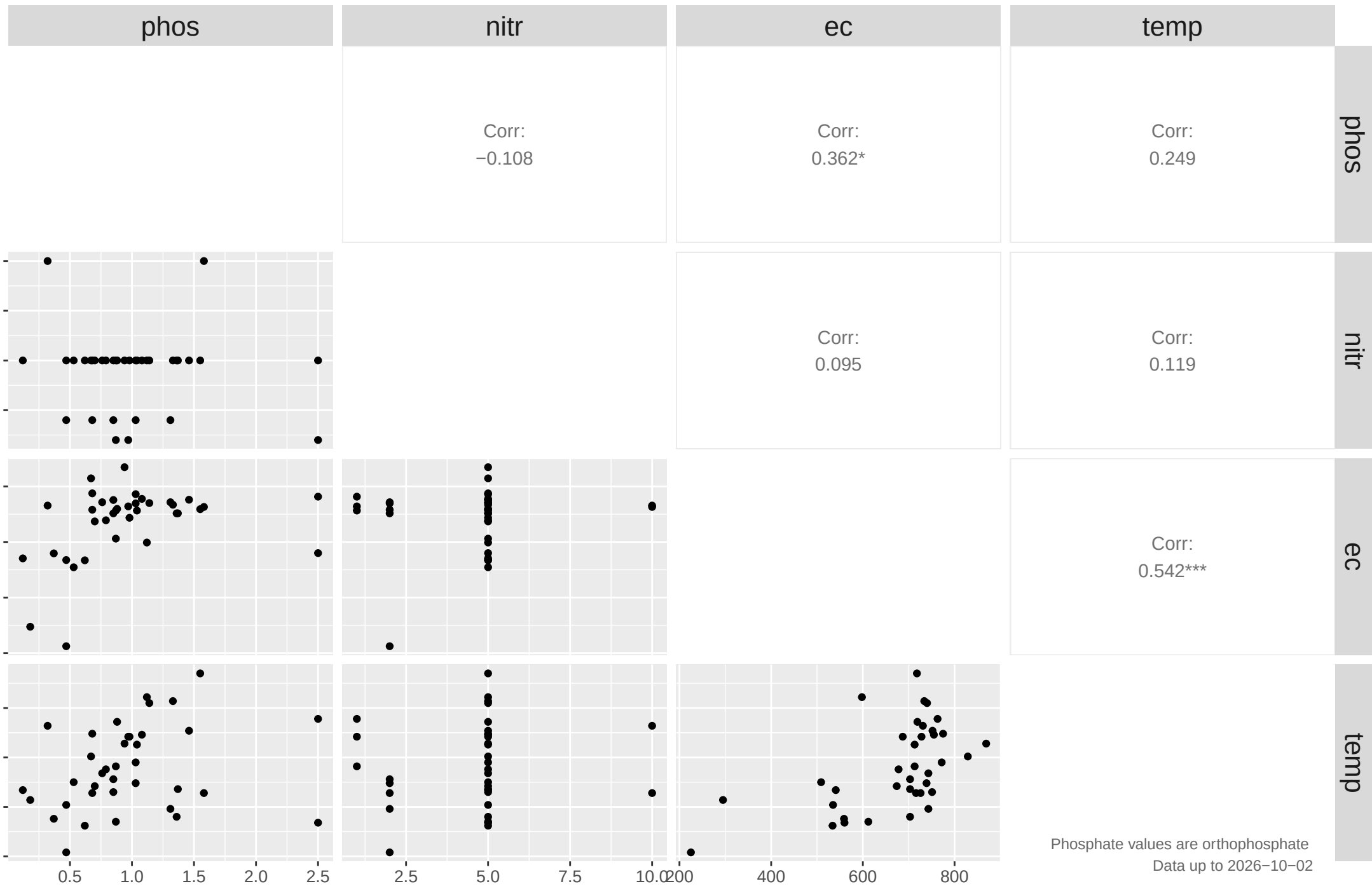
SafeAvon Nitrates By Month

Stour River – Cherington – Sewage Treatment Works



Pairwise Testing Variables Relationships

Stour River – Cherington – Sewage Treatment 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