

SafeAvon Nutrient Testing Report: Preston Bagot

SafeAvon Sites By Waterway

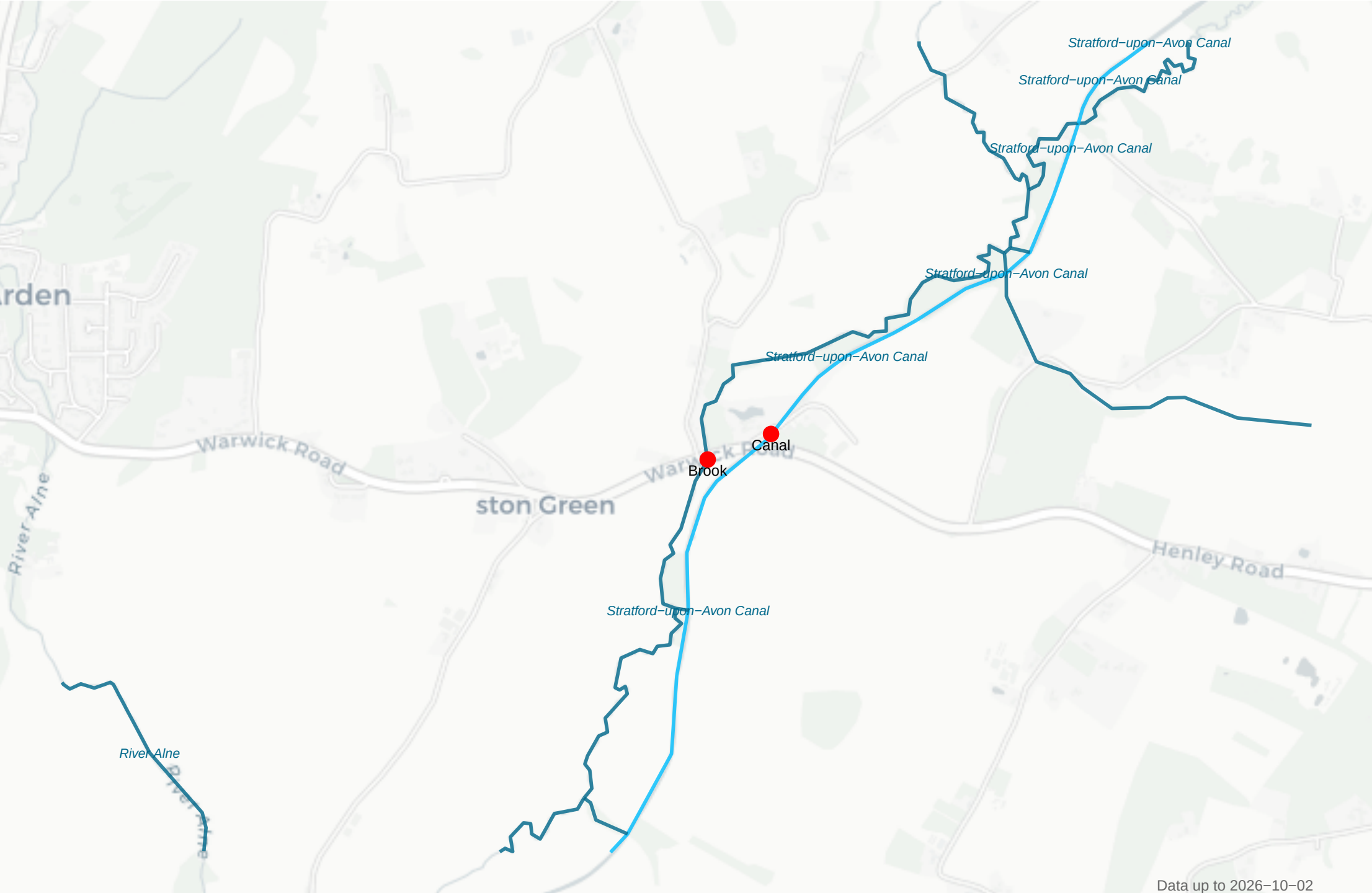
Stratford-upon-Avon Canal

. Preston Bagot – Canal

Tributary (Alne River)

. Preston Bagot – Brook

SafeAvon Locations in Preston Bagot

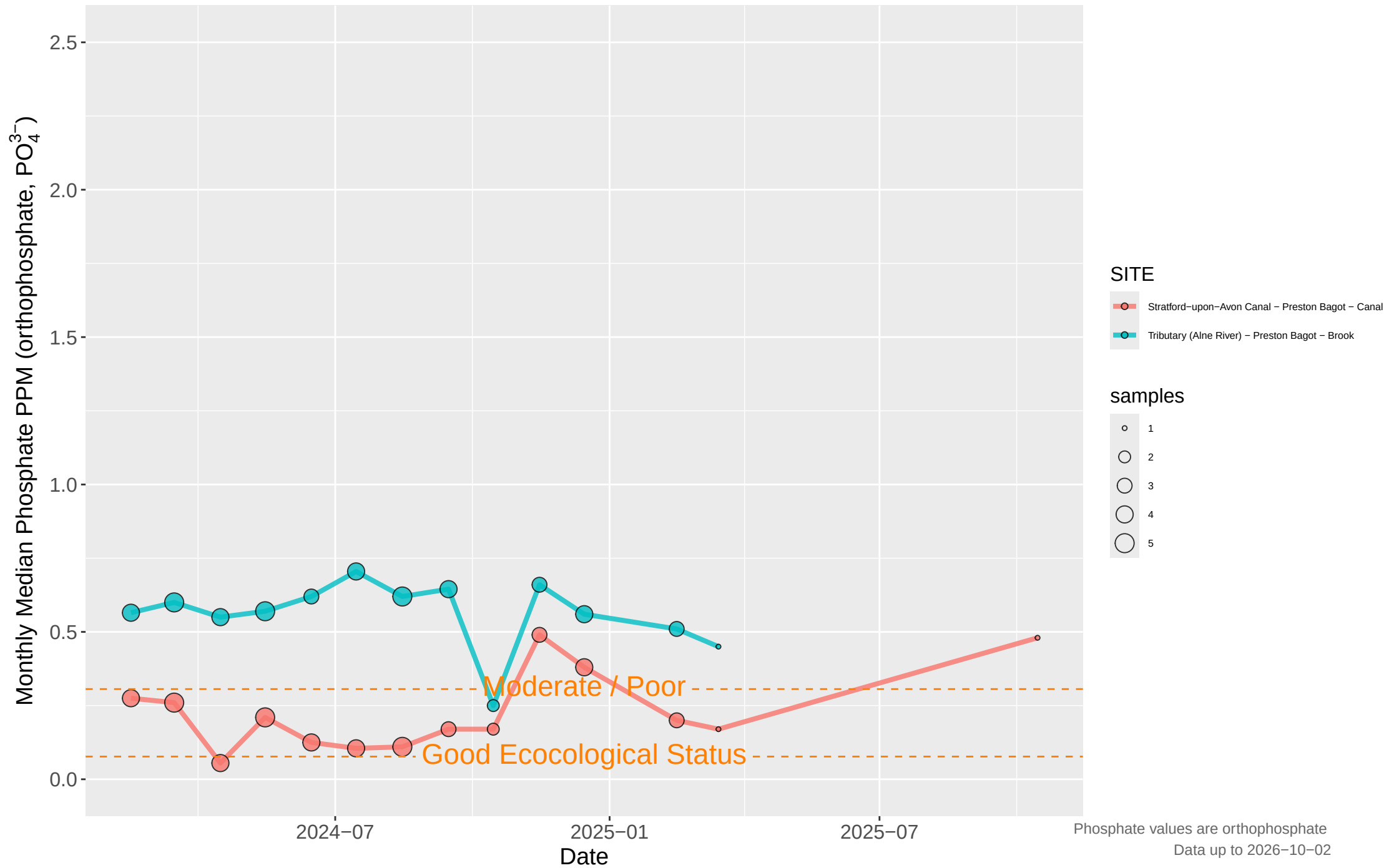


Summary for sites in Preston Bagot

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Stratford-upon-Avon Canal – Preston Bagot – Canal	2024-02-01	2025-10-10	48	2	0.18	2
Tributary (Alne River) – Preston Bagot – Brook	2024-02-01	2025-03-02	47	2	0.59	2

SafeAvon Phosphates – By Month

Preston Bagot



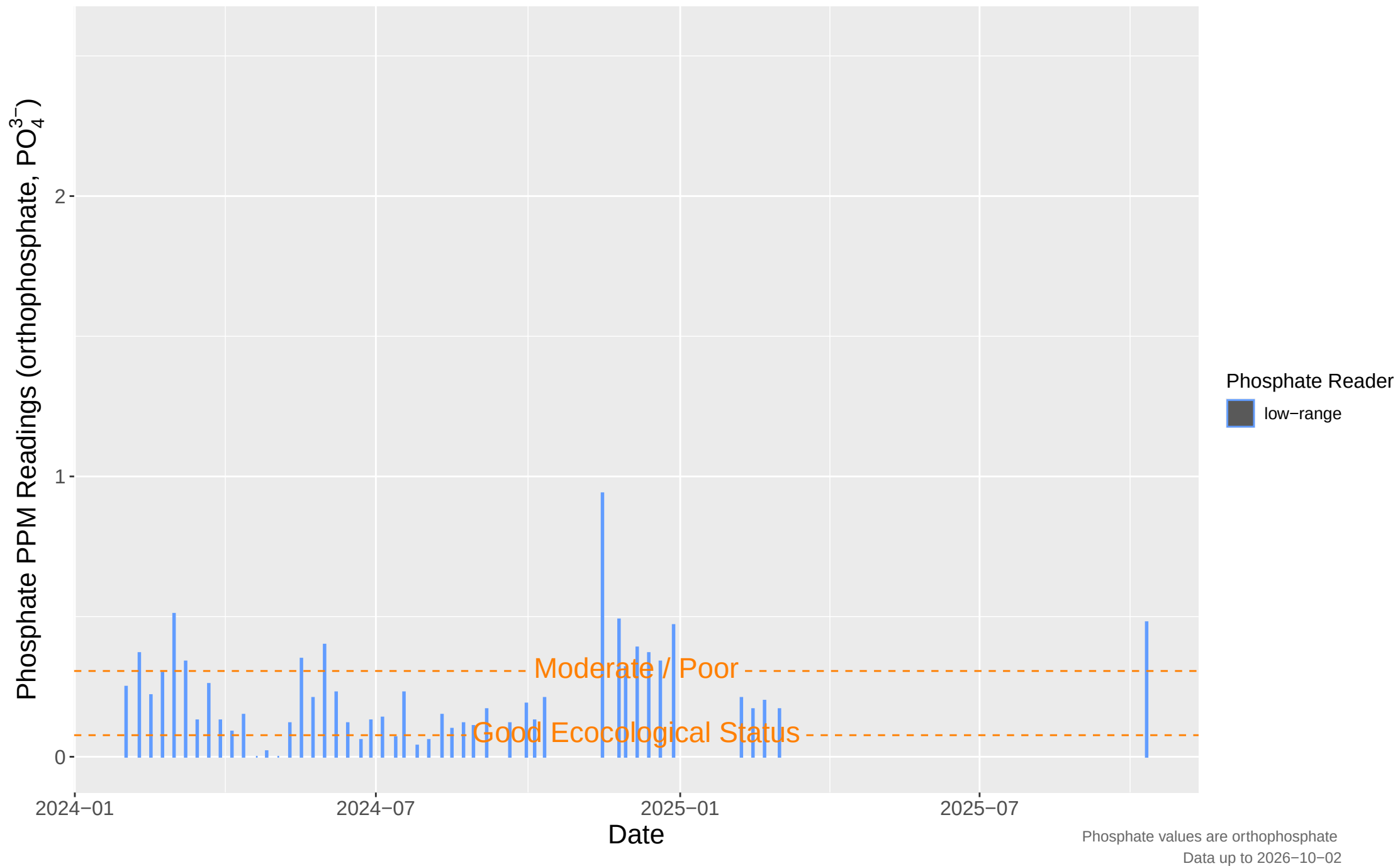
Site: Stratford-upon-Avon Canal – Preston Bagot – Canal

Start Date: 2024-02-01 | Most Recent: 2025-10-10 | Total Samples: 48 | 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
Winter 23-24	4		0.22	0.28	0.37		2	2	2		220	318	351		9.7	10.8	11.6
Spring 24	14		0.00	0.14	0.51		0	2	5		295	388	470		9.1	13.9	20.2
Summer 24	13		0.04	0.12	0.23		0	0	2		452	510	603		16.6	19.6	24.2
Autumn 24	8		0.12	0.20	0.94		1	2	2		290	378	629		8.2	13.2	19.5
Winter 24-25	7		0.17	0.34	0.47		2	2	2		325	420	720		6.1	8.8	10.8
Spring 25	1		0.17	0.17	0.17		1	1	1		433	433	433		8.6	8.6	8.6
Autumn 25	1		0.48	0.48	0.48		1	1	1		792	792	792		15.8	15.8	15.8

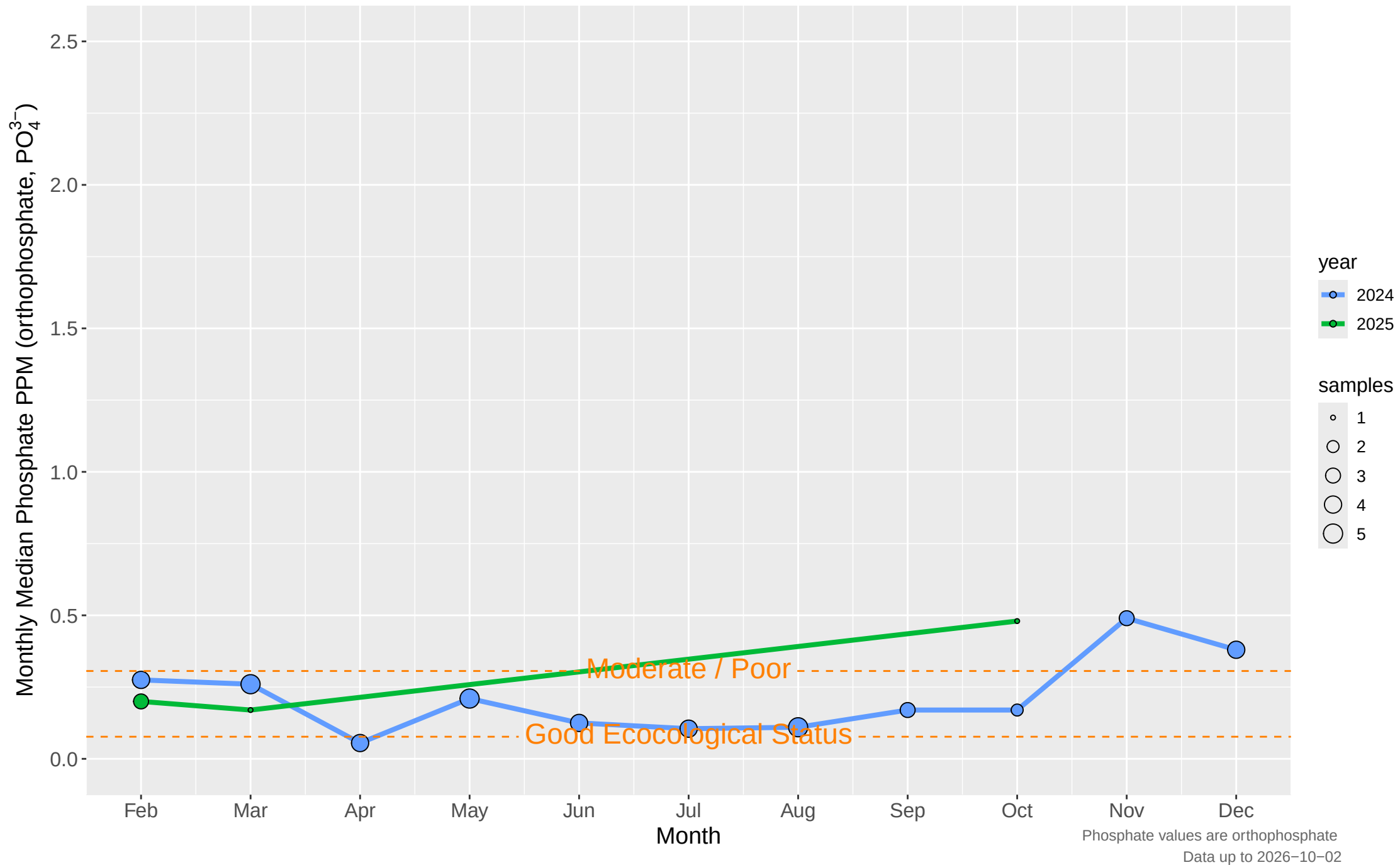
SafeAvon Phosphates – Individual Readings

Stratford-upon-Avon Canal – Preston Bagot – Canal



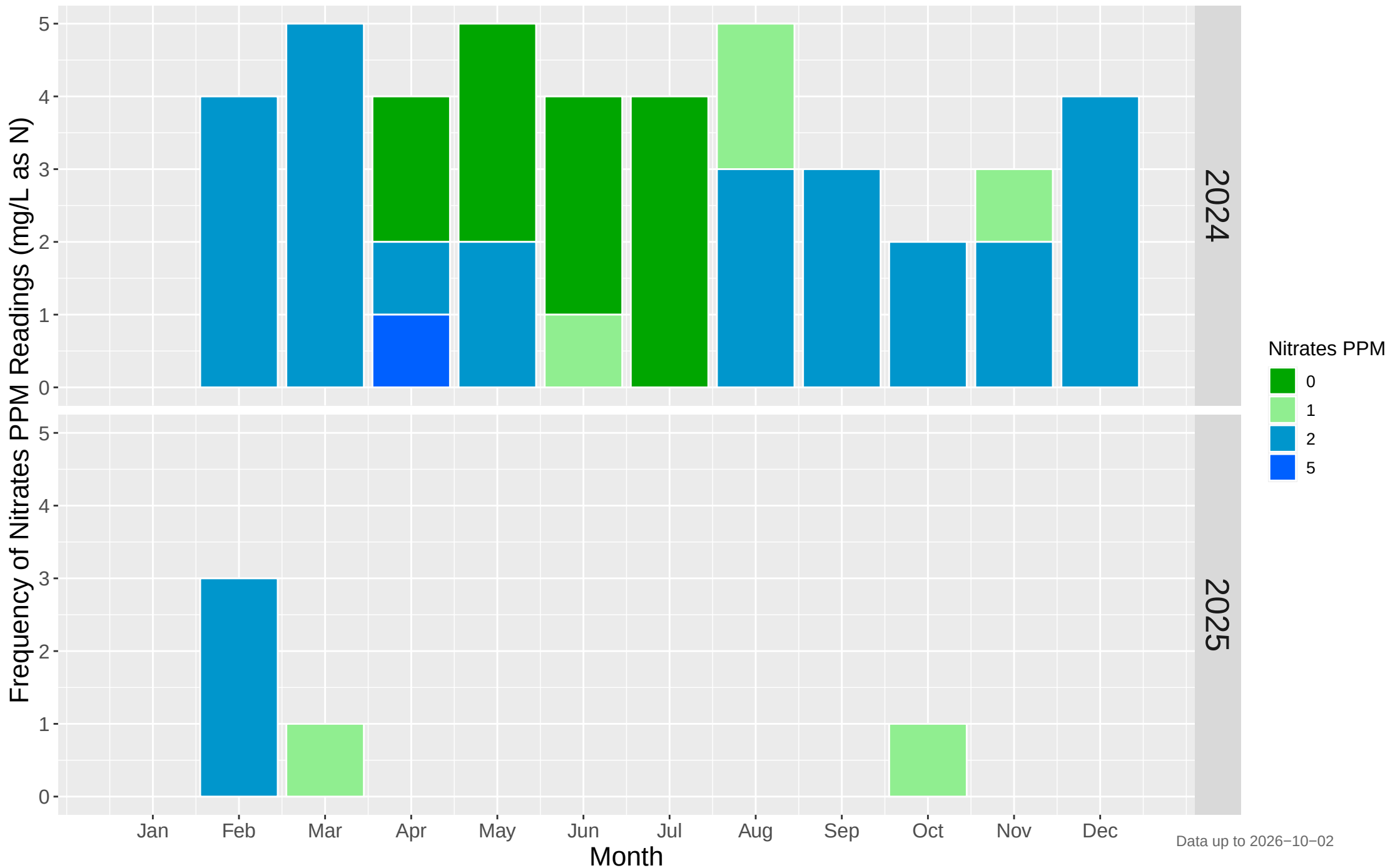
SafeAvon Phosphates – By Month

Stratford-upon-Avon Canal – Preston Bagot – Canal



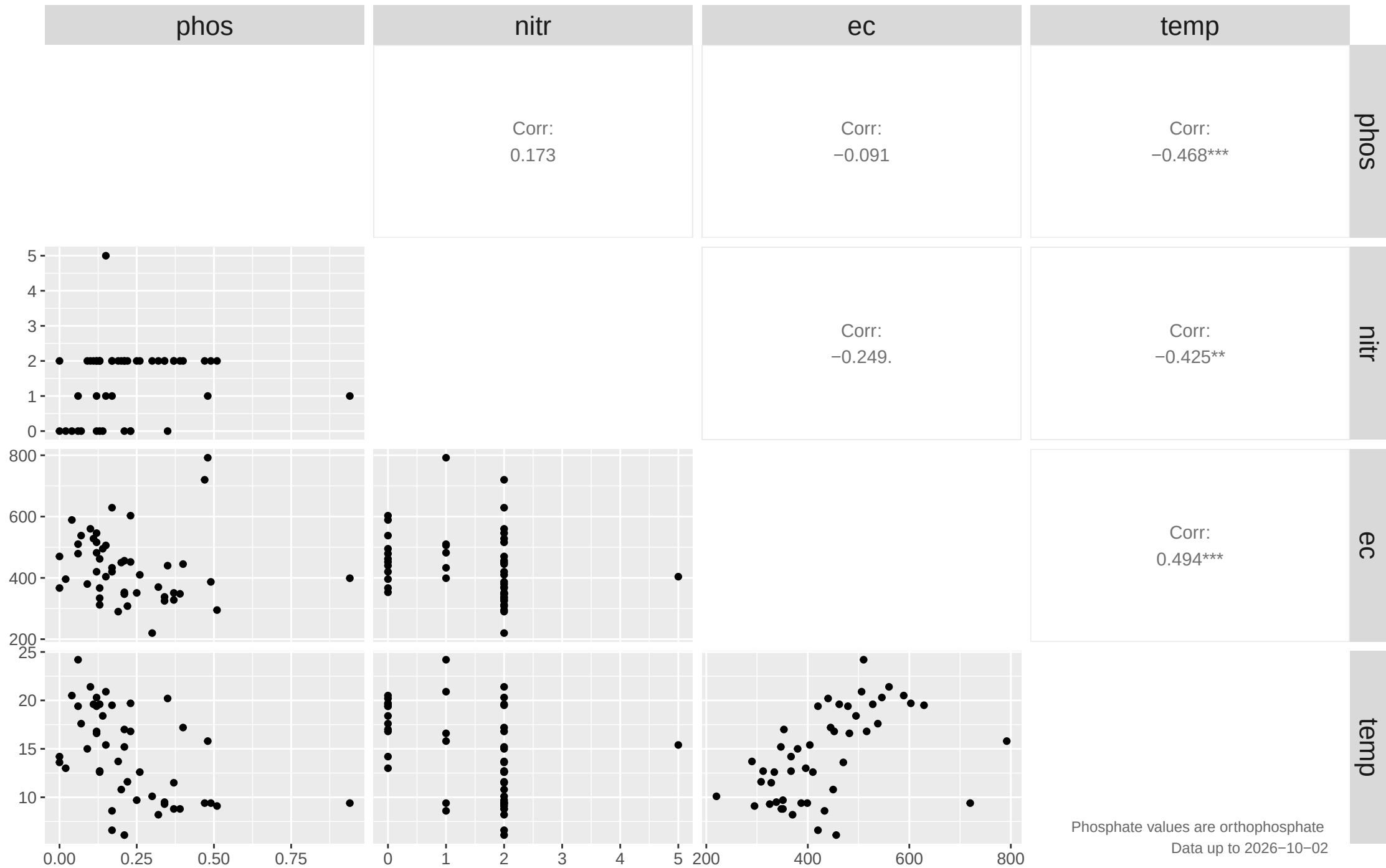
SafeAvon Nitrates By Month

Stratford-upon-Avon Canal – Preston Bagot – Canal



Pairwise Testing Variables Relationships

Stratford-upon-Avon Canal – Preston Bagot – Canal



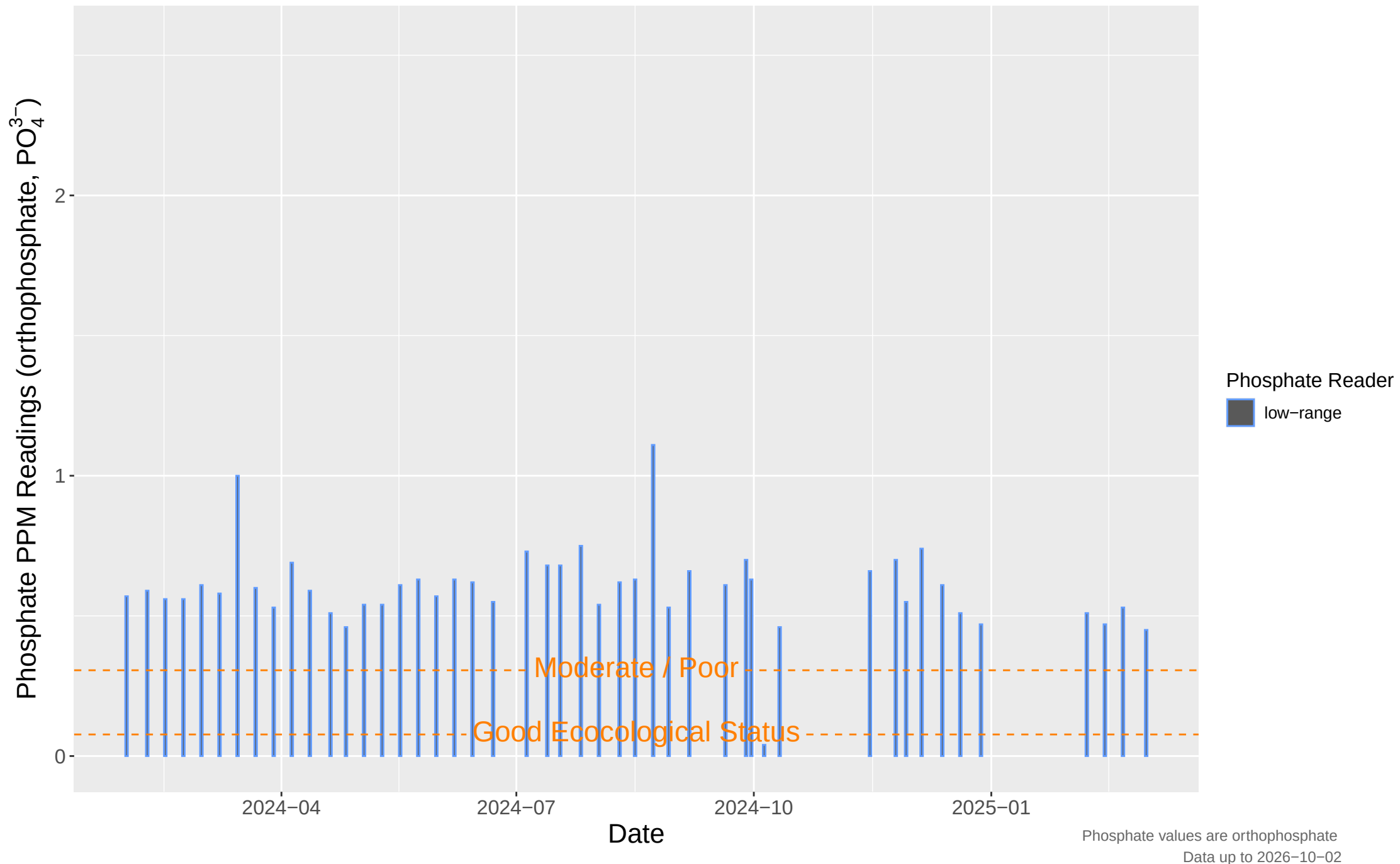
Site: Tributary (Alne River) – Preston Bagot – Brook

Start Date: 2024-02-01 | Most Recent: 2025-03-02 | Total Samples: 47 | 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
Winter 23-24	4		0.56	0.56	0.59		2	2.0	2		243	372	805		10.4	11.6	12.4
Spring 24	14		0.46	0.58	1.00		2	2.0	5		336	670	938		10.1	12.9	18.2
Summer 24	12		0.53	0.63	1.11		2	3.5	5		102	976	1108		15.3	17.8	20.7
Autumn 24	9		0.04	0.63	0.70		2	5.0	5		359	760	1160		8.9	13.4	18.2
Winter 24-25	7		0.47	0.51	0.74		2	2.0	5		410	720	815		6.7	9.4	12.0
Spring 25	1		0.45	0.45	0.45		5	5.0	5		737	737	737		8.8	8.8	8.8

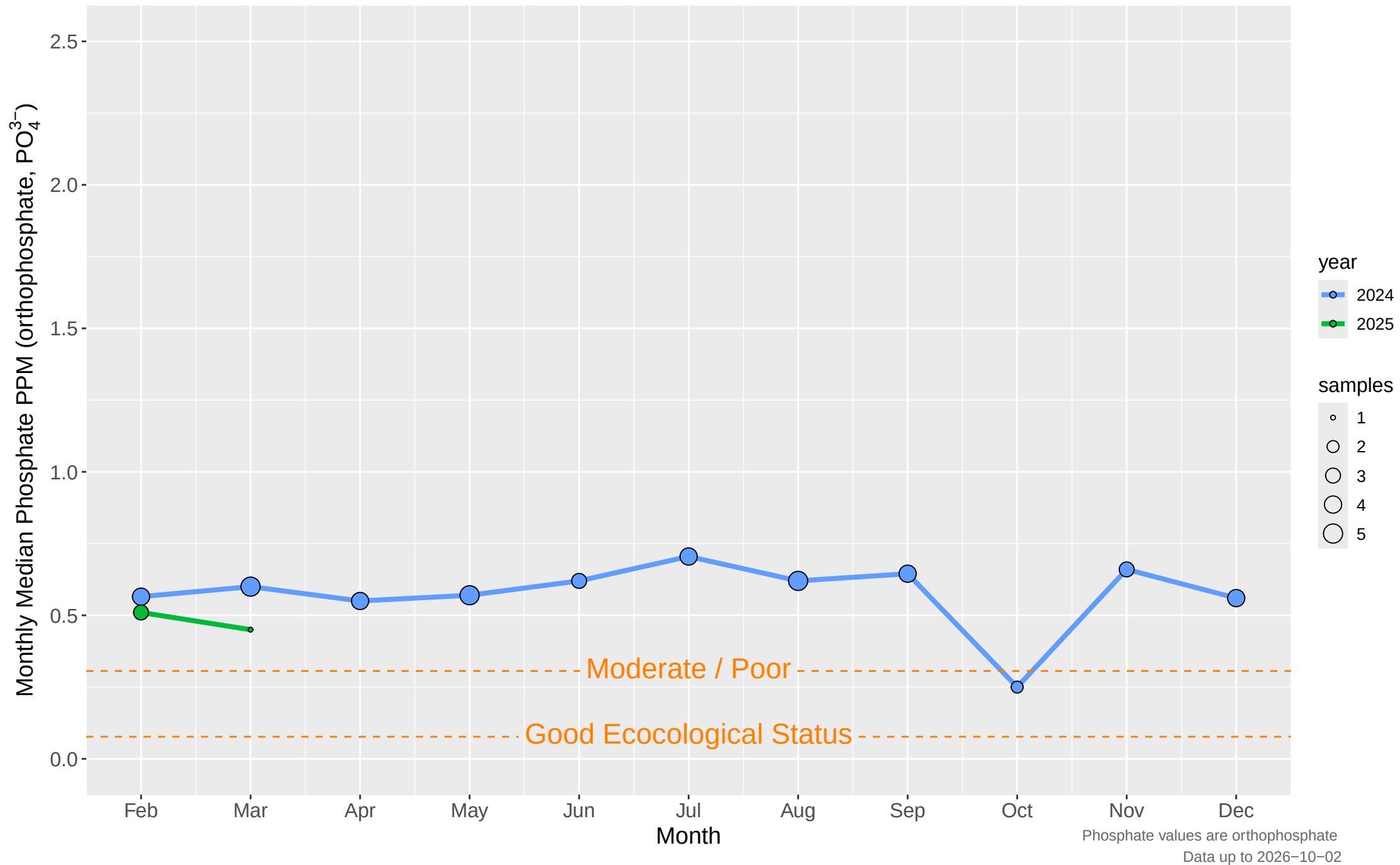
SafeAvon Phosphates – Individual Readings

Tributary (Alne River) – Preston Bagot – Brook



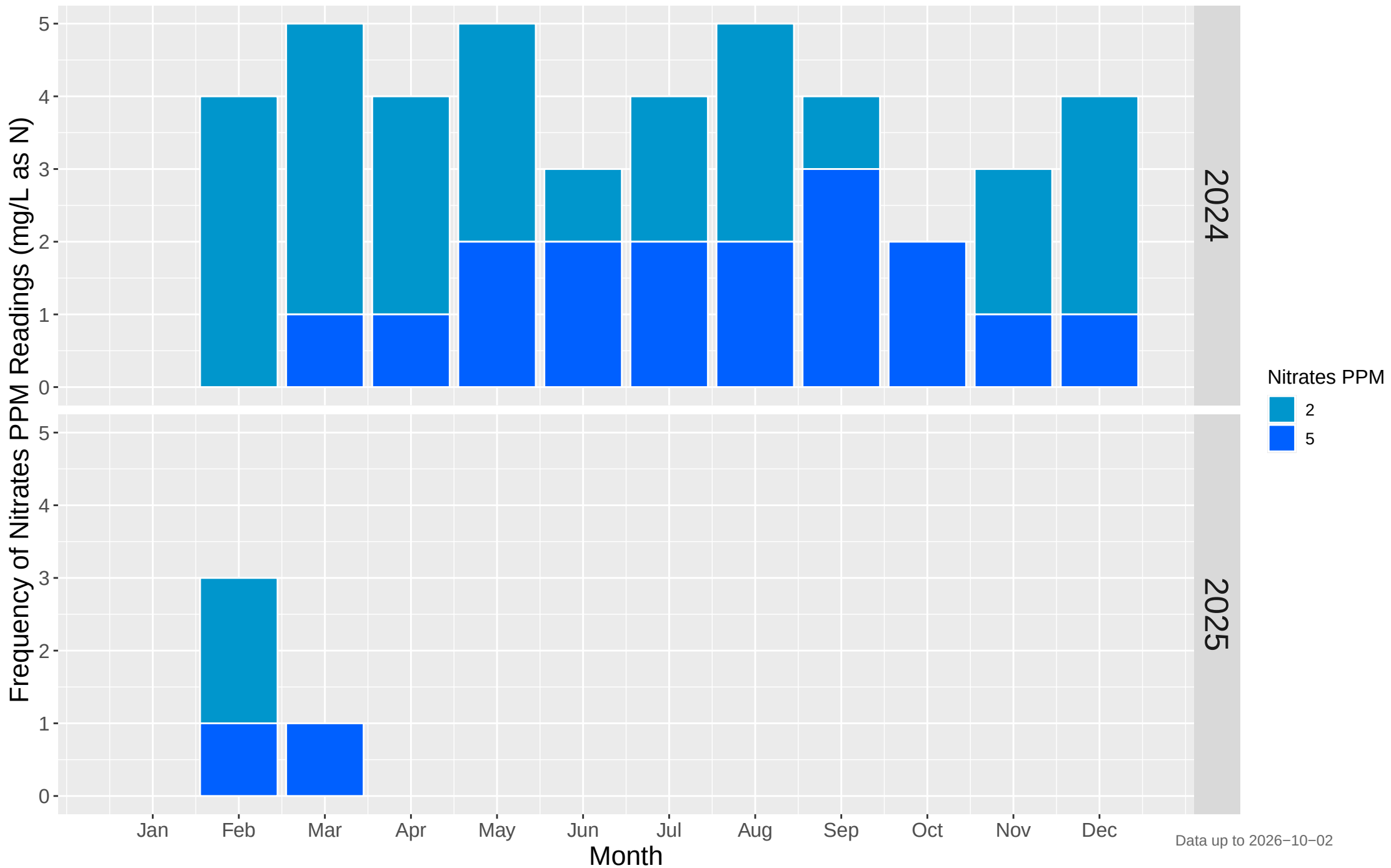
SafeAvon Phosphates – By Month

Tributary (Alne River) – Preston Bagot – Brook



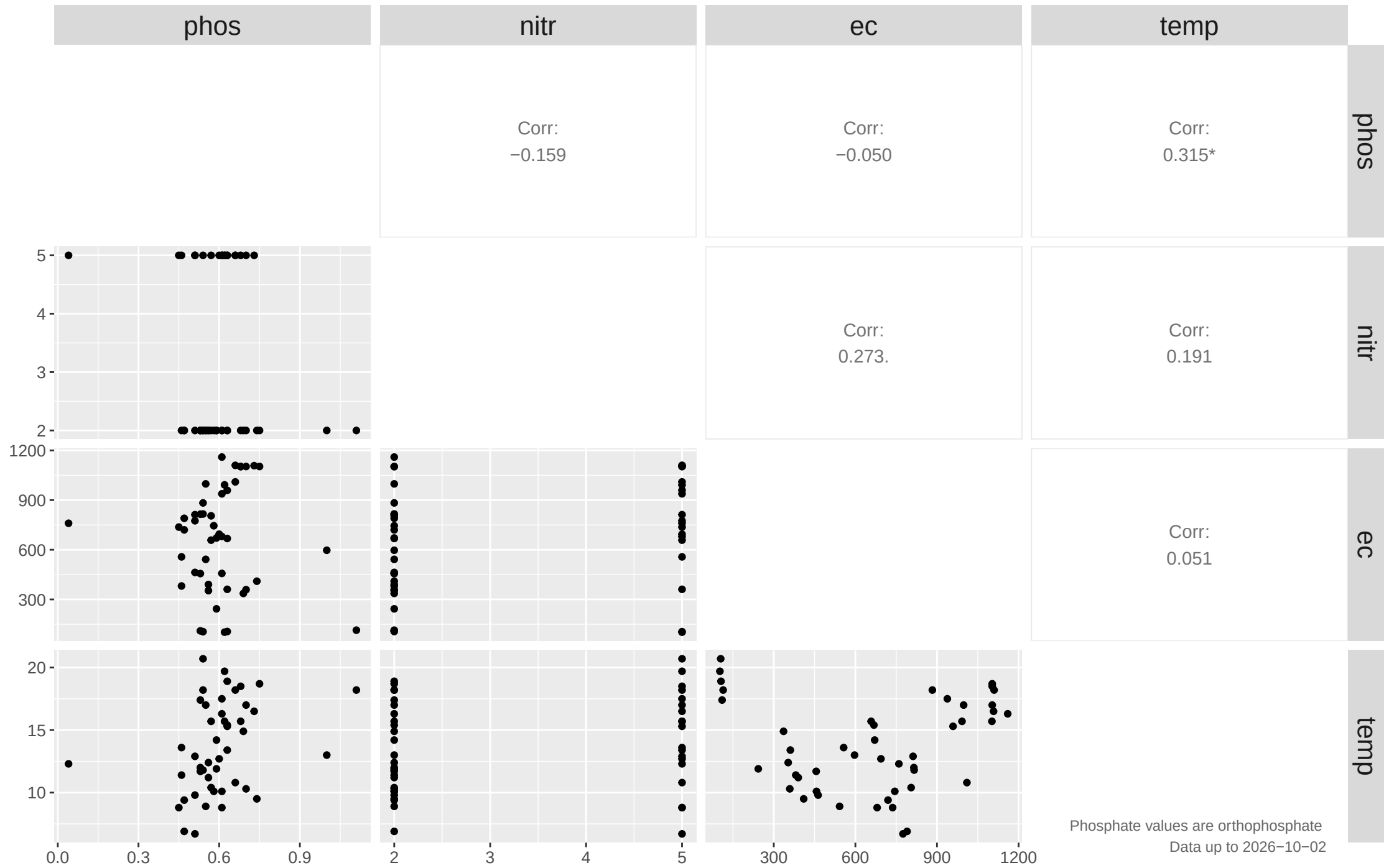
SafeAvon Nitrates By Month

Tributary (Alne River) – Preston Bagot – Brook



Pairwise Testing Variables Relationships

Tributary (Alne River) – Preston Bagot – Brook



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