

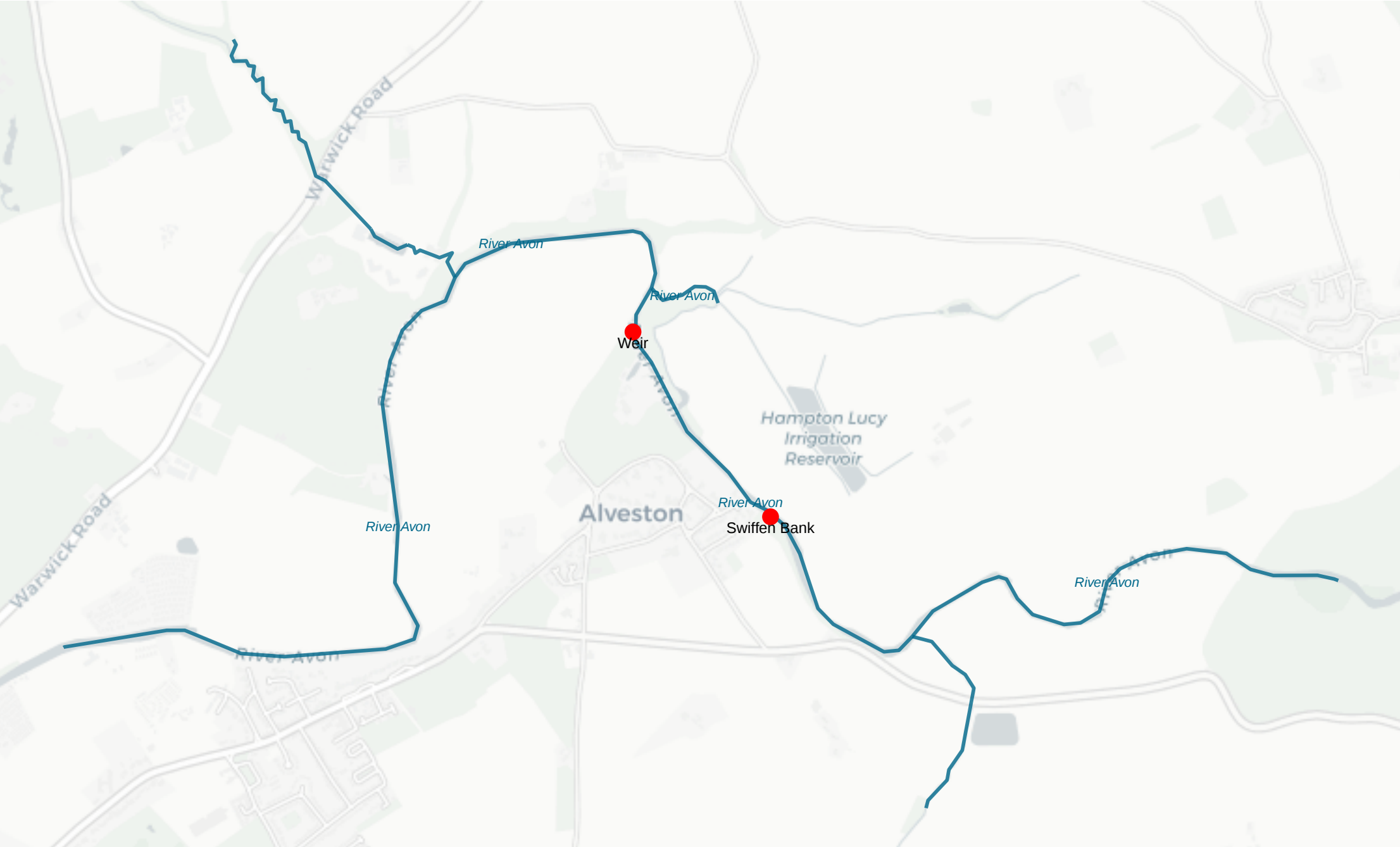
SafeAvon Nutrient Testing Report: Alveston

SafeAvon Sites By Waterway

Avon River

- . Alveston – Swiffen Bank
- . Alveston – Weir

SafeAvon Locations in Alveston

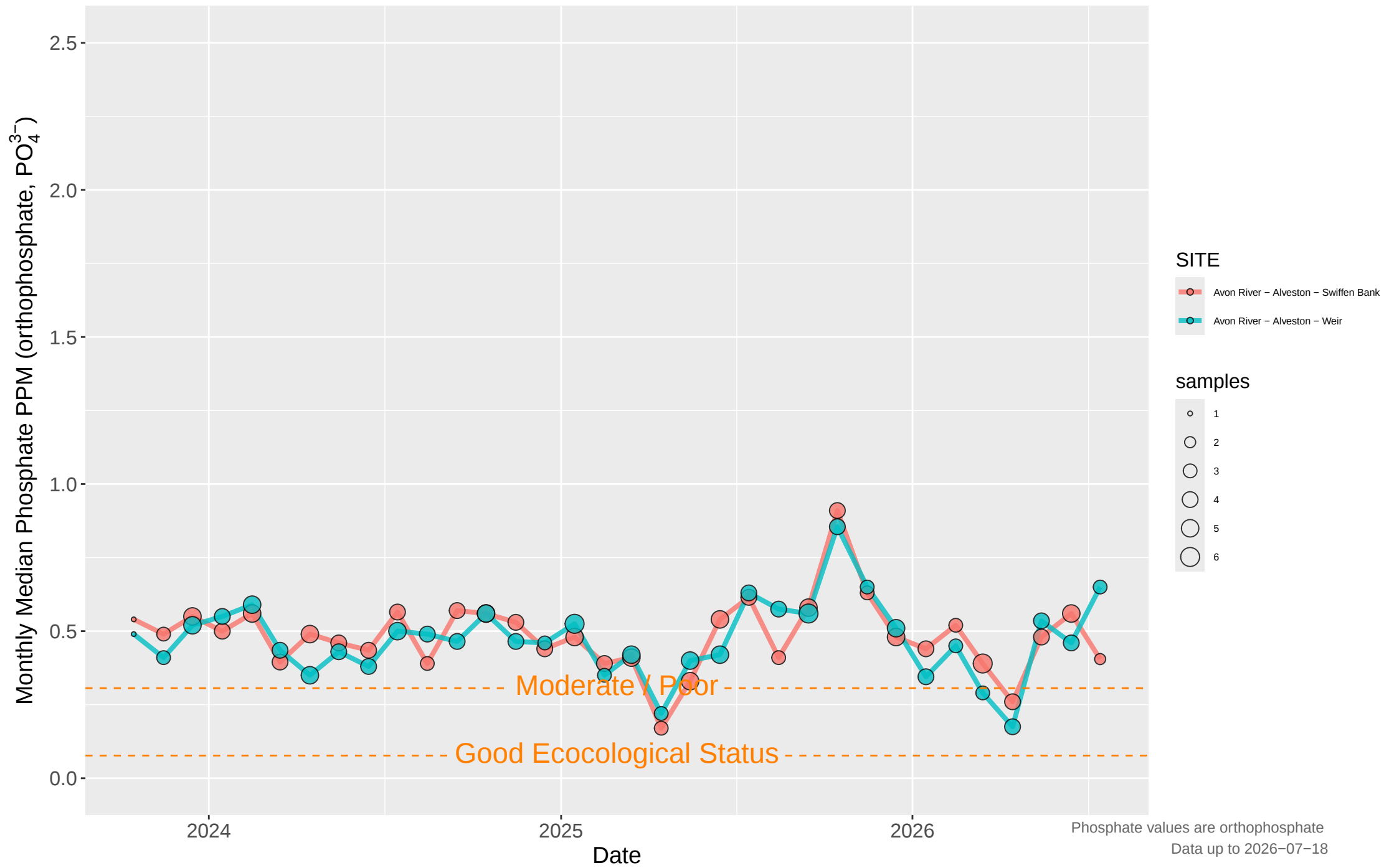


Summary for sites in Alveston

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Avon River – Alveston – Swiffen Bank	2023-10-30	2026-07-13	138	5	0.49	10
Avon River – Alveston – Weir	2023-10-30	2026-07-13	139	4	0.46	10

SafeAvon Phosphates – By Month

Alveston



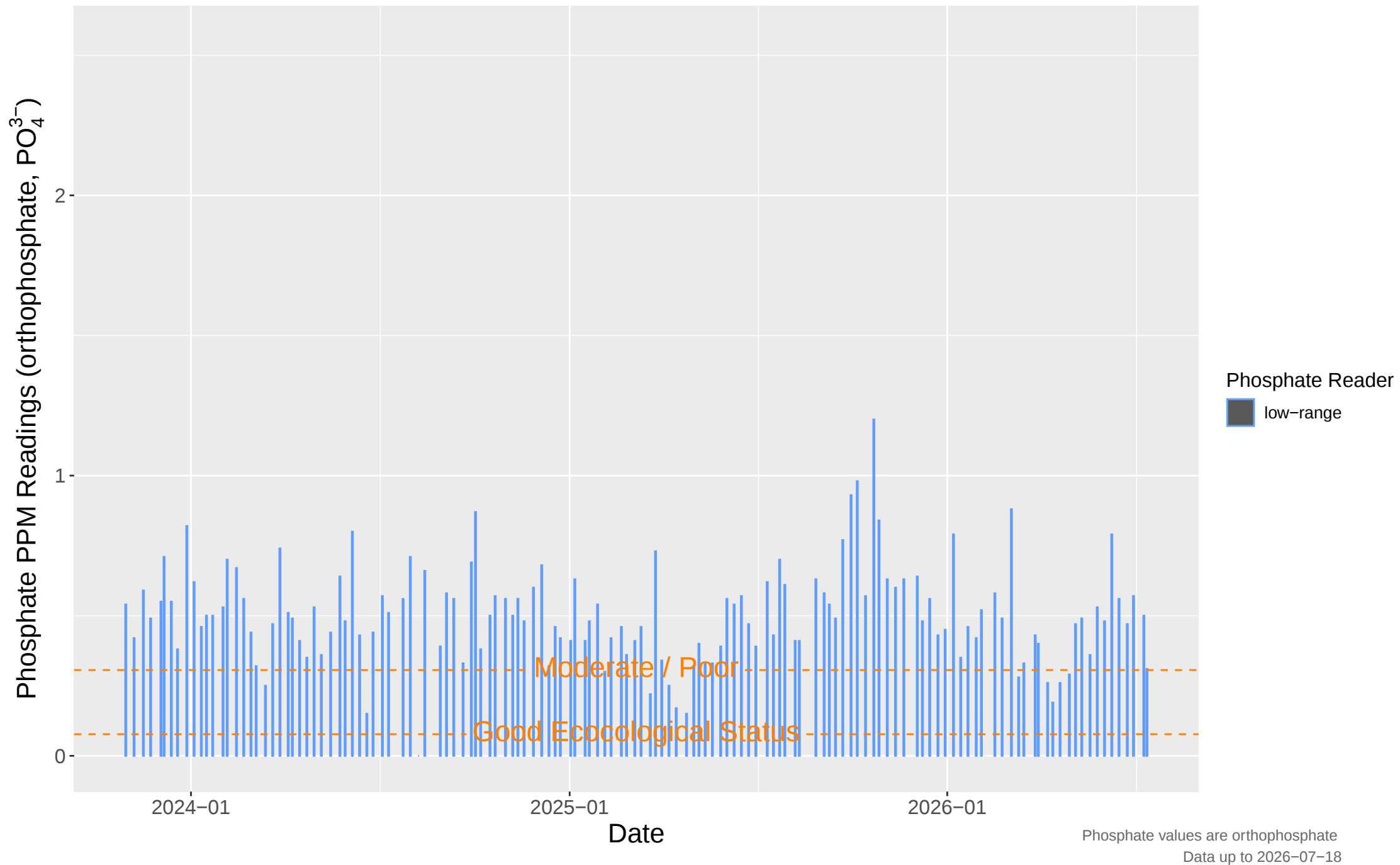
Site: Avon River – Alveston – Swiffen Bank

Start Date: 2023-10-30 | Most Recent: 2026-07-13 | Total Samples: 138 | Distinct Volunteers: 5

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	4		0.42	0.52	0.59		5	5.0	5		561	610	687		12.2	14.0	15.0
Winter 23-24	14		0.38	0.55	0.82		2	5.0	10		370	640	811		6.1	9.2	13.4
Spring 24	13		0.25	0.47	0.74		5	5.0	10		464	562	699		8.8	13.8	19.8
Summer 24	11		0.00	0.51	0.80		5	10.0	10		653	729	826		16.3	19.3	22.8
Autumn 24	13		0.33	0.56	0.87		5	10.0	20		432	674	754		9.3	14.5	18.1
Winter 24-25	13		0.30	0.42	0.68		5	5.0	10		445	630	727		6.7	8.5	12.0
Spring 25	13		0.15	0.33	0.73		5	10.0	20		613	793	973		10.0	14.2	18.1
Summer 25	12		0.39	0.55	0.70		0	15.0	20		534	792	1060		17.3	20.4	24.8
Autumn 25	12		0.49	0.63	1.20		5	10.0	10		545	844	917		8.2	14.5	19.4
Winter 25-26	12		0.35	0.48	0.79		2	7.5	20		455	653	907		5.6	8.1	11.4
Spring 26	14		0.19	0.37	0.53		2	10.0	10		560	834	970		9.7	13.0	24.0
Summer 26	7		0.31	0.50	0.79		5	10.0	20		734	922	1050		18.0	23.1	25.6

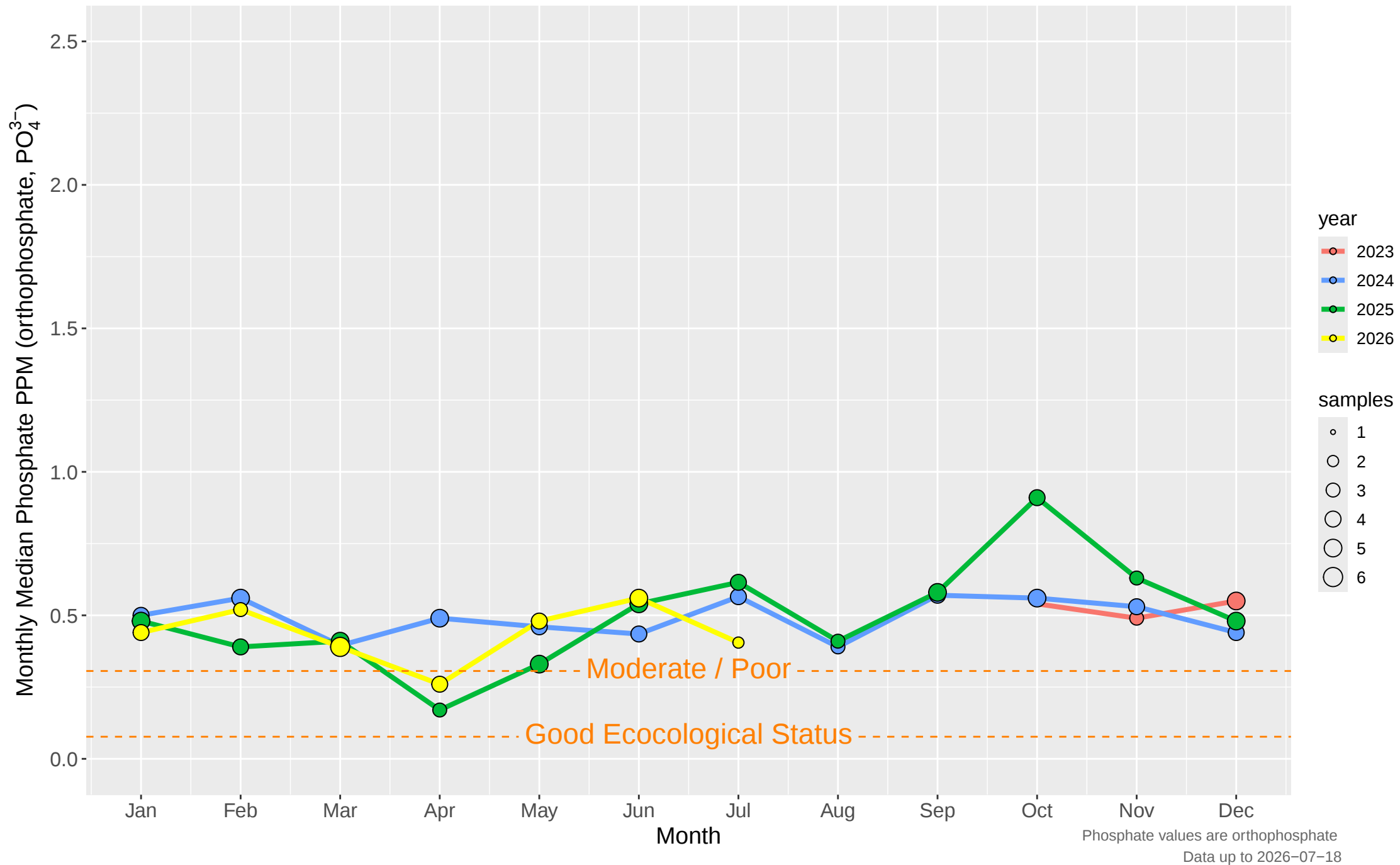
SafeAvon Phosphates – Individual Readings

Avon River – Alveston – Swiffen Bank



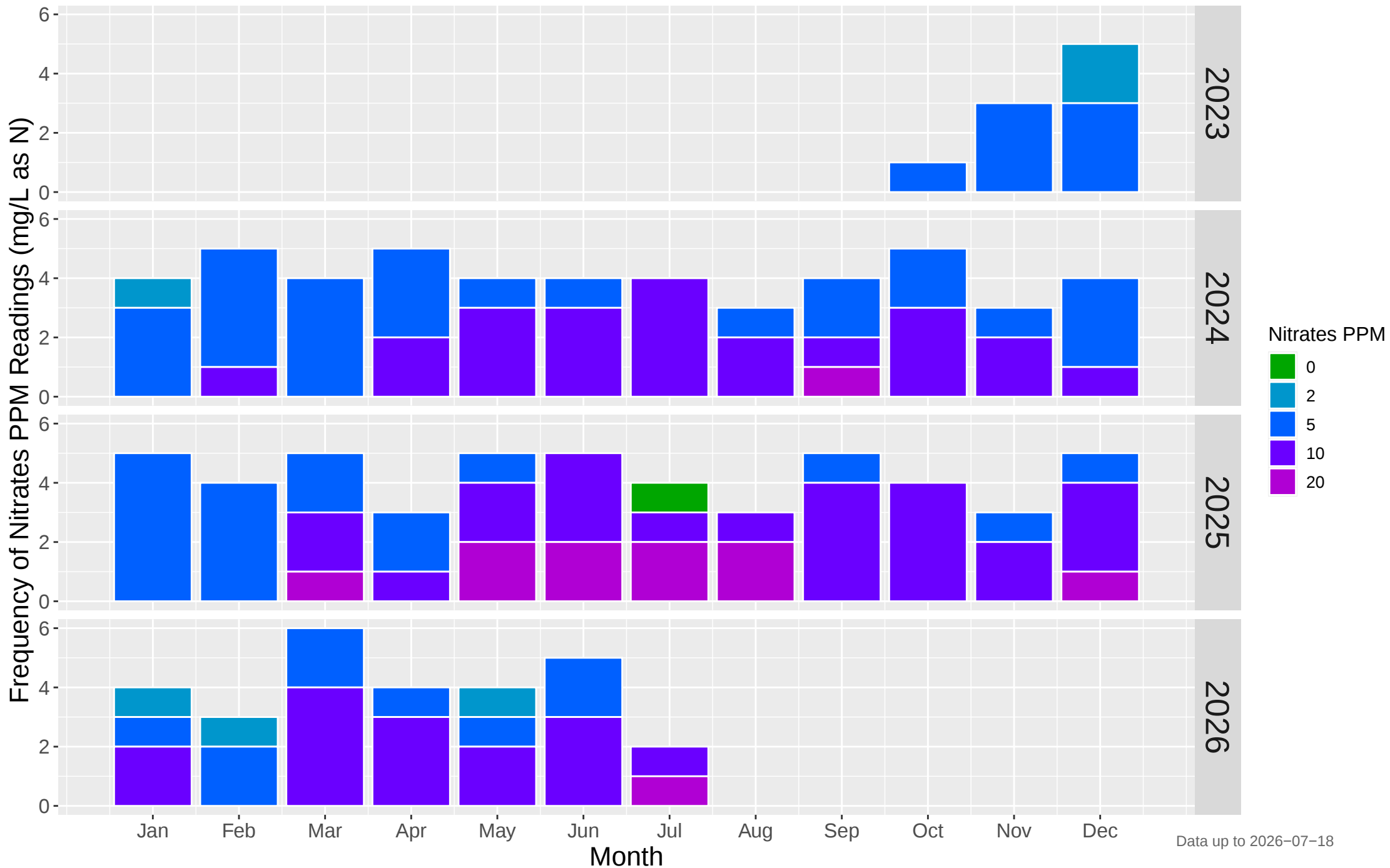
SafeAvon Phosphates – By Month

Avon River – Alveston – Swiffen Bank



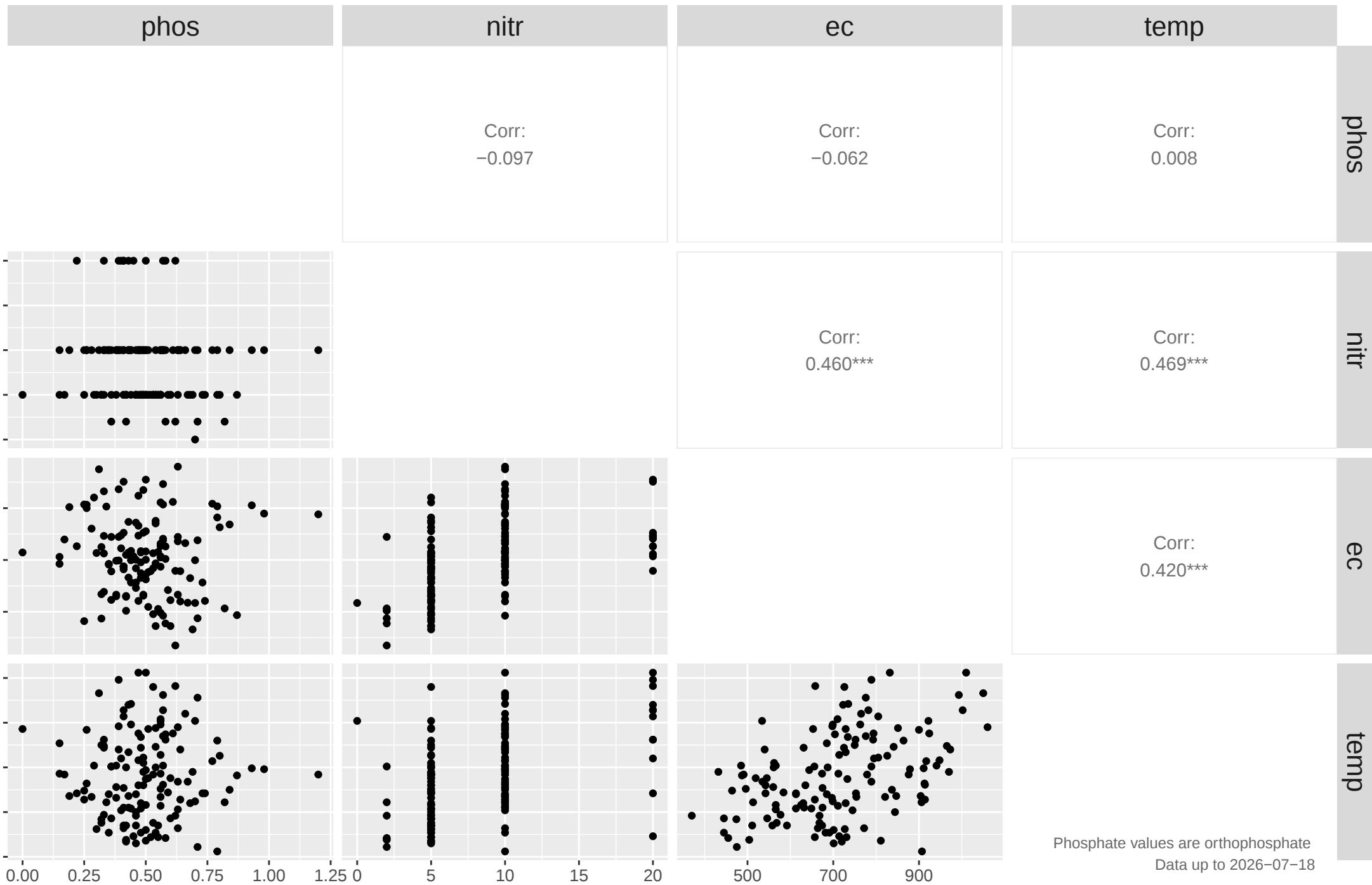
SafeAvon Nitrates By Month

Avon River – Alveston – Swiffen Bank



Pairwise Testing Variables Relationships

Avon River – Alveston – Swiffen Bank



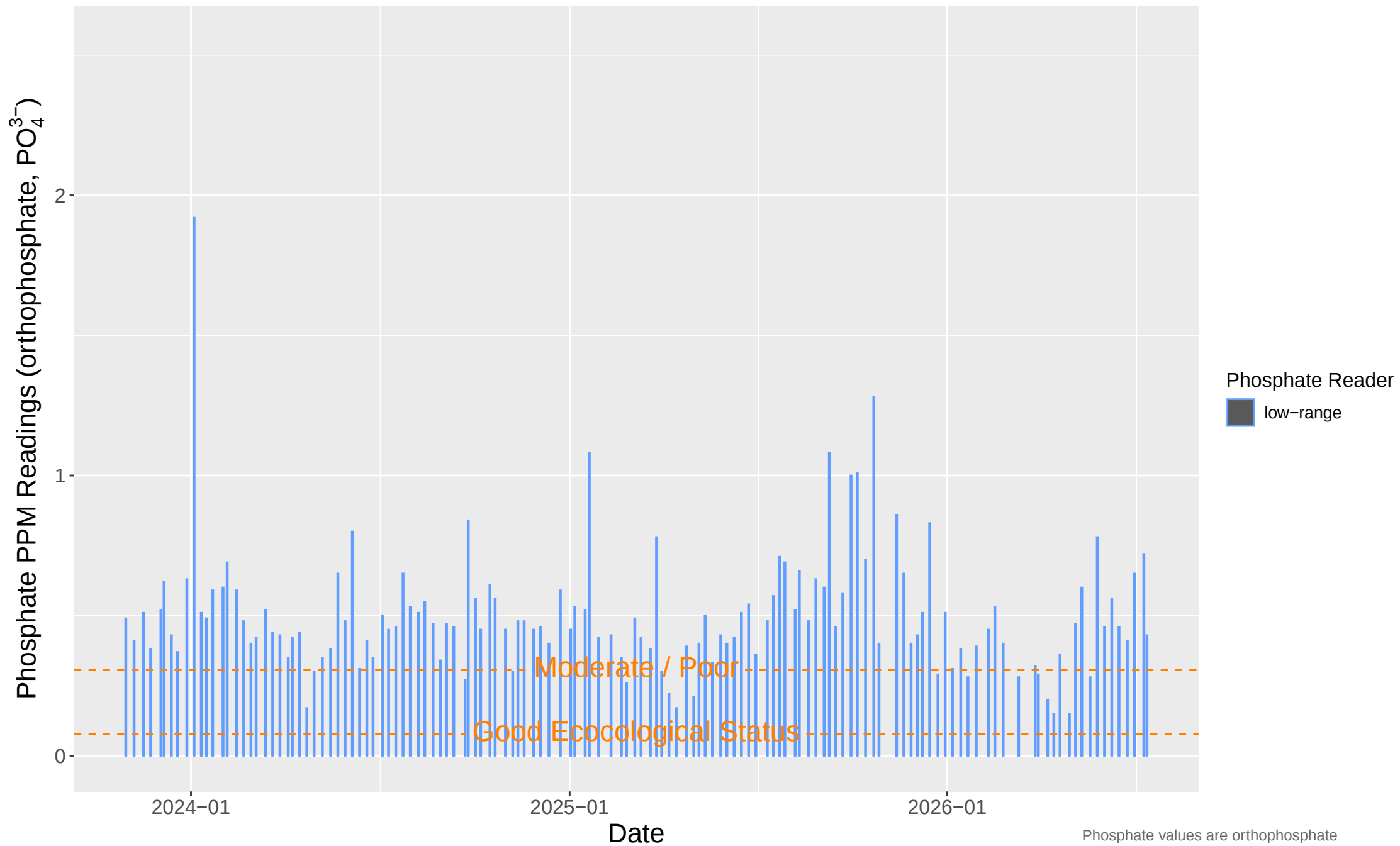
Site: Avon River – Alveston – Weir

Start Date: 2023-10-30 | Most Recent: 2026-07-13 | Total Samples: 139 | Distinct Volunteers: 4

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	4		0.38	0.45	0.51		5.0	5	10		568	652	702		15.5	15.9	16.8
Winter 23-24	14		0.37	0.55	1.92		2.0	5	10		7	570	765		5.7	9.5	11.8
Spring 24	13		0.17	0.42	0.65		5.0	5	10		442	561	901		8.8	14.4	18.8
Summer 24	13		0.31	0.47	0.80		0.0	10	10		654	758	858		15.7	19.1	26.0
Autumn 24	13		0.27	0.47	0.84		5.0	5	20		440	649	907		9.3	14.5	18.4
Winter 24-25	12		0.26	0.46	0.59		5.0	5	10		507	642	831		6.4	8.2	12.2
Spring 25	13		0.17	0.39	0.78		5.0	10	20		671	796	965		8.8	13.3	18.1
Summer 25	13		0.36	0.52	0.71		10.0	20	20		604	809	1020		18.0	21.1	24.8
Autumn 25	14		0.40	0.60	1.28		5.0	10	20		541	772	933		8.1	15.4	20.2
Winter 25-26	12		0.28	0.42	0.83		2.0	10	20		448	640	836		5.0	9.3	12.6
Spring 26	11		0.15	0.29	0.78		5.0	10	20		703	855	967		11.3	13.8	24.0
Summer 26	7		0.41	0.46	0.72		0.5	10	10		815	902	1070		16.8	23.5	27.6

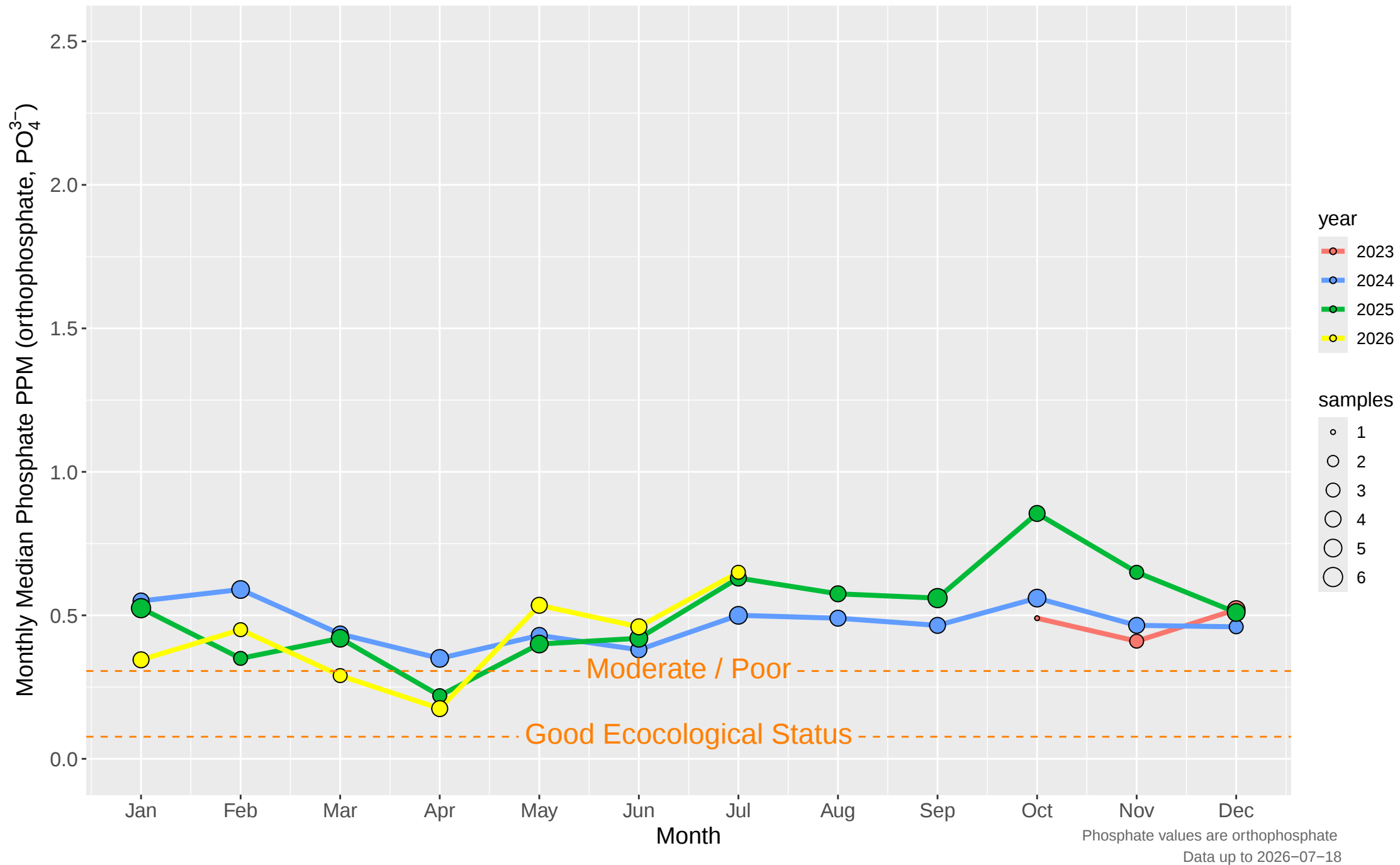
SafeAvon Phosphates – Individual Readings

Avon River – Alveston – Weir



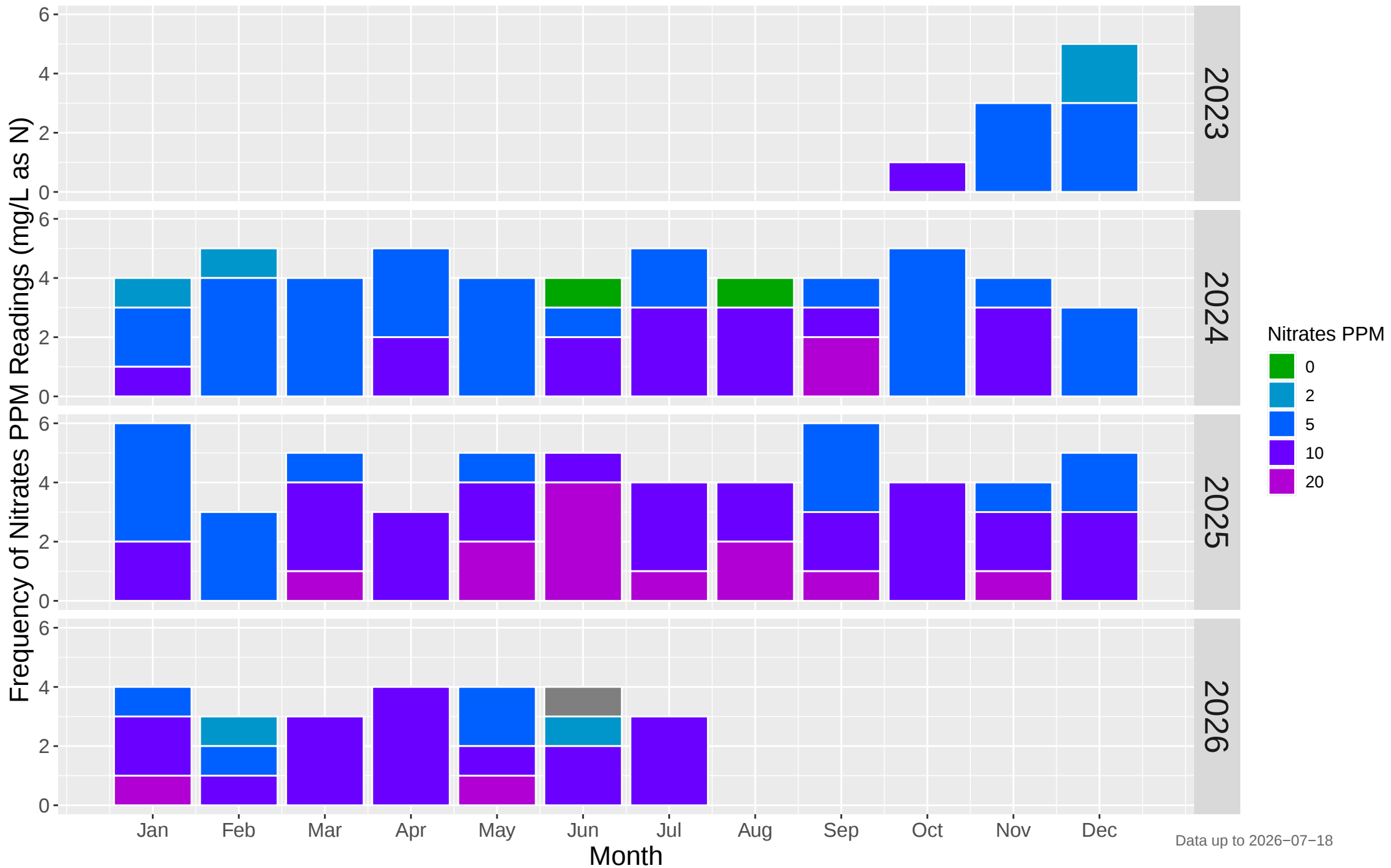
SafeAvon Phosphates – By Month

Avon River – Alveston – Weir



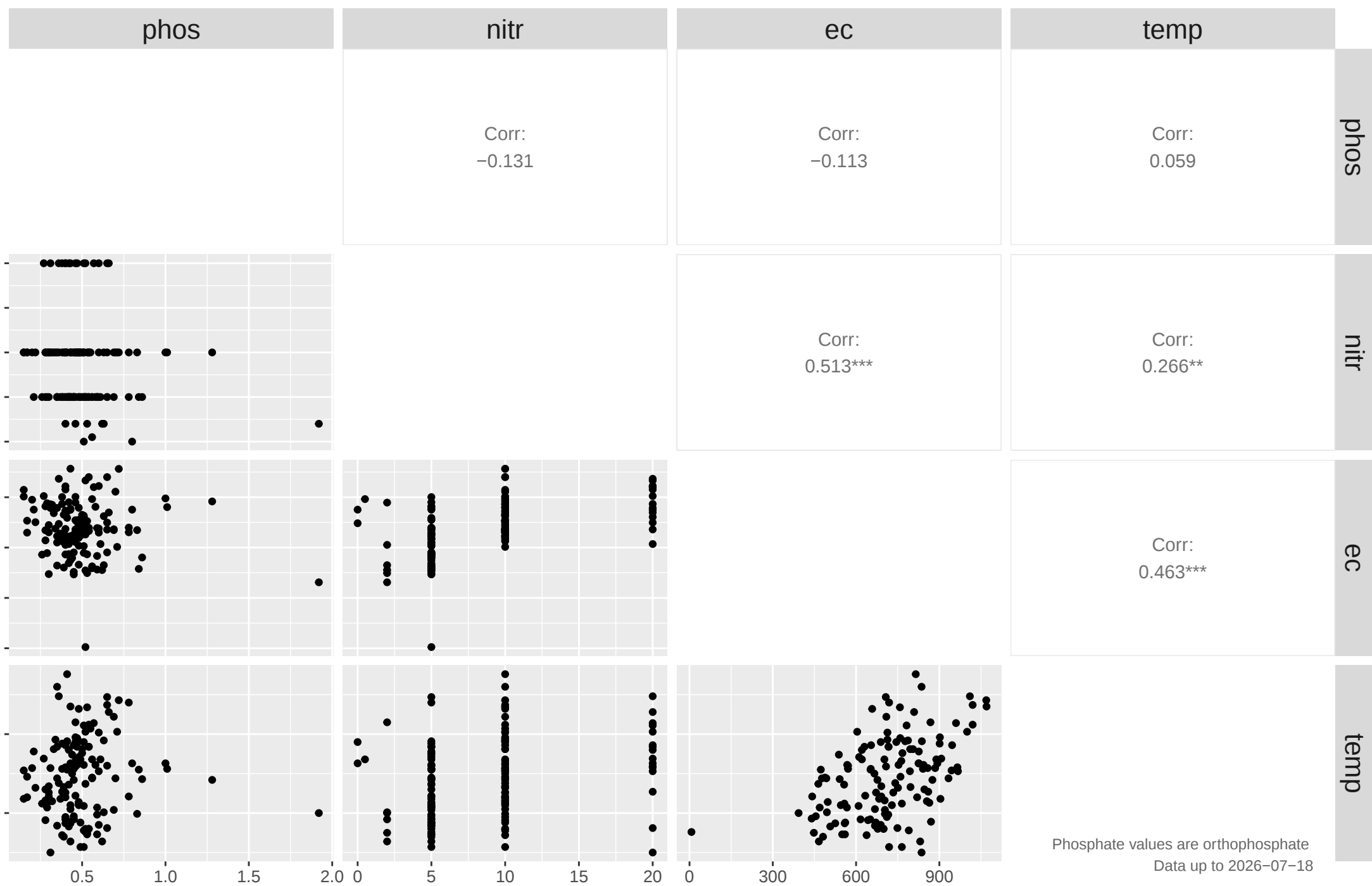
SafeAvon Nitrates By Month

Avon River – Alveston – Weir



Pairwise Testing Variables Relationships

Avon River – Alveston – Weir



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