

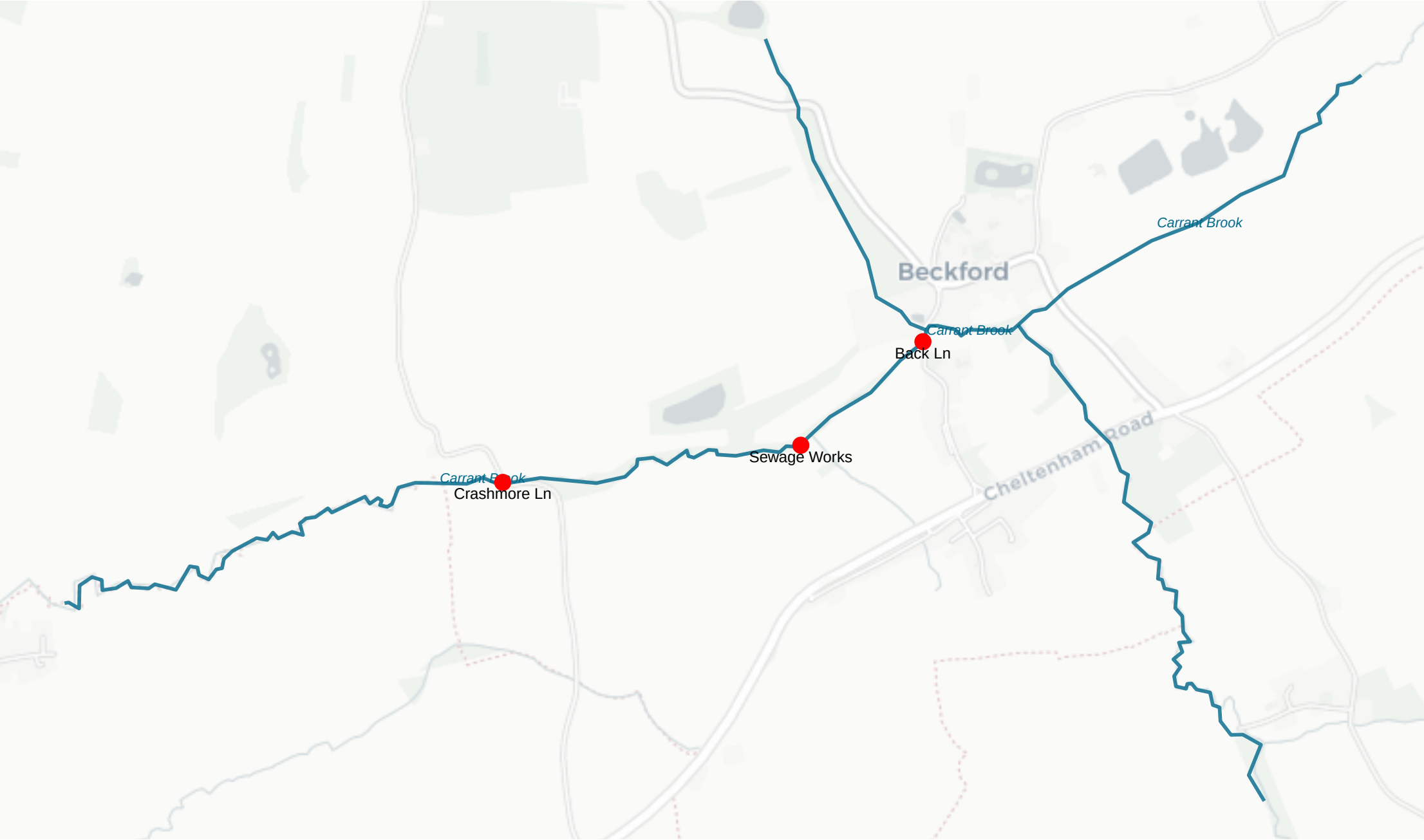
SafeAvon Nutrient Testing Report: Beckford

SafeAvon Sites By Waterway

Carrant Brook

- . Beckford – Back Ln
- . Beckford – Crashmore Ln
- . Beckford – Sewage Works

SafeAvon Locations in Beckford



Summary for sites in Beckford

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Carrant Brook – Beckford – Crashmore Ln	2025-02-24	2026-09-19	51	2	1.26	10
Carrant Brook – Beckford – Back Ln	2024-06-28	2026-09-14	53	2	0.61	5
Carrant Brook – Beckford – Sewage Works	2024-06-28	2024-06-28	1	1	0.82	5

SafeAvon Phosphates – By Month

Beckford



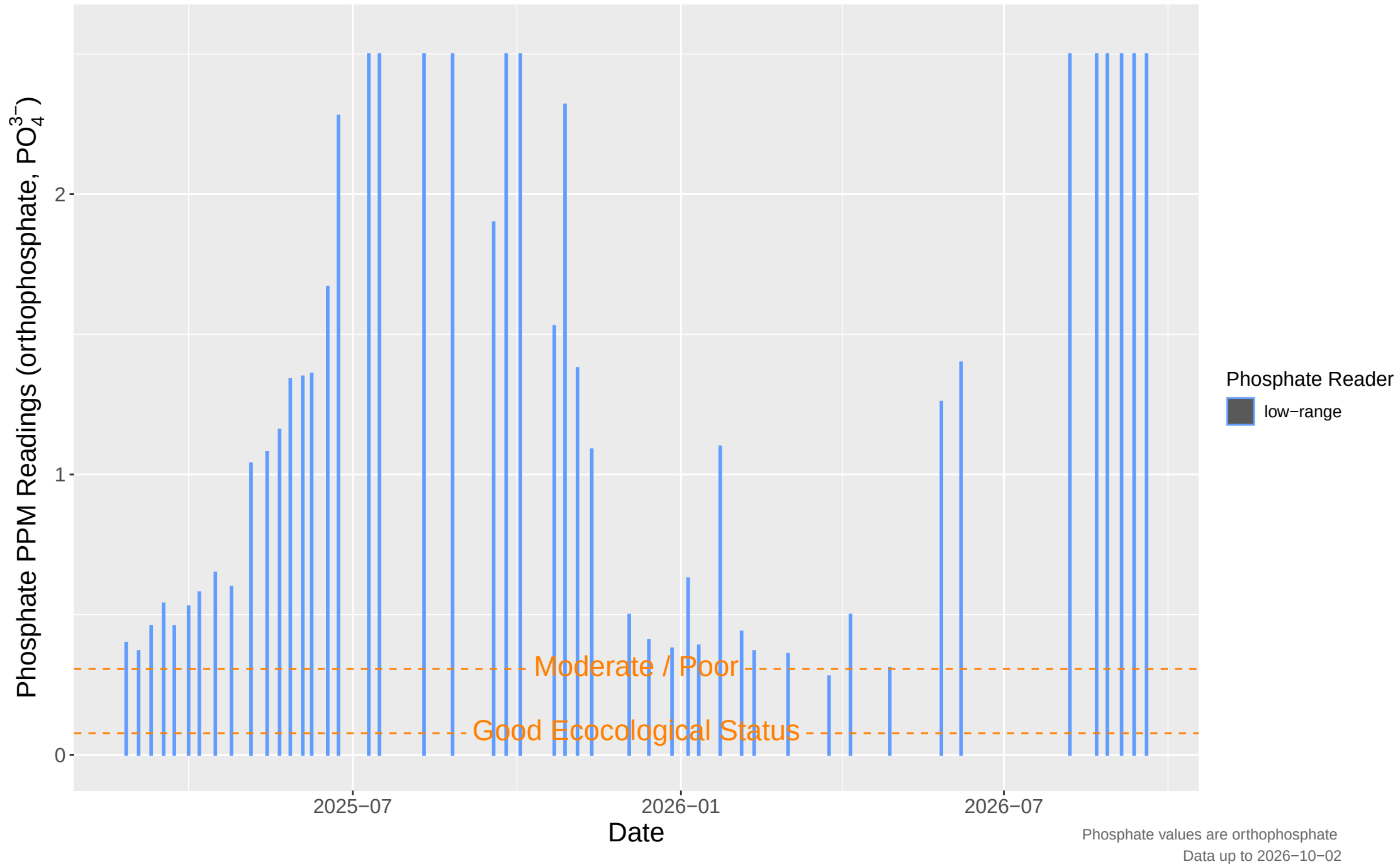
Site: Carrant Brook – Beckford – Crashmore Ln

Start Date: 2025-02-24 | Most Recent: 2026-09-19 | Total Samples: 51 | 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 24-25	1		0.40	0.40	0.40		5	5.0	5		580	580	580		11.3	11.3	11.3
Spring 25	12		0.37	0.59	1.34		5	7.5	10		73	783	820		6.2	11.6	16.2
Summer 25	10		1.35	1.97	2.50		2	5.0	10		785	796	958		12.9	17.7	21.6
Autumn 25	7		1.09	1.90	2.50		5	7.5	10		725	843	922		12.4	14.0	17.8
Winter 25-26	8		0.37	0.42	1.10		5	10.0	20		518	724	829		4.9	8.1	10.4
Spring 26	5		0.28	0.36	1.26		5	5.0	10		126	724	761		9.6	10.1	19.6
Summer 26	4		1.40	2.50	2.50		5	7.5	10		734	945	958		14.9	17.6	18.4
Autumn 26	4		2.50	2.50	2.50		5	10.0	10		872	908	950		16.9	17.2	18.7

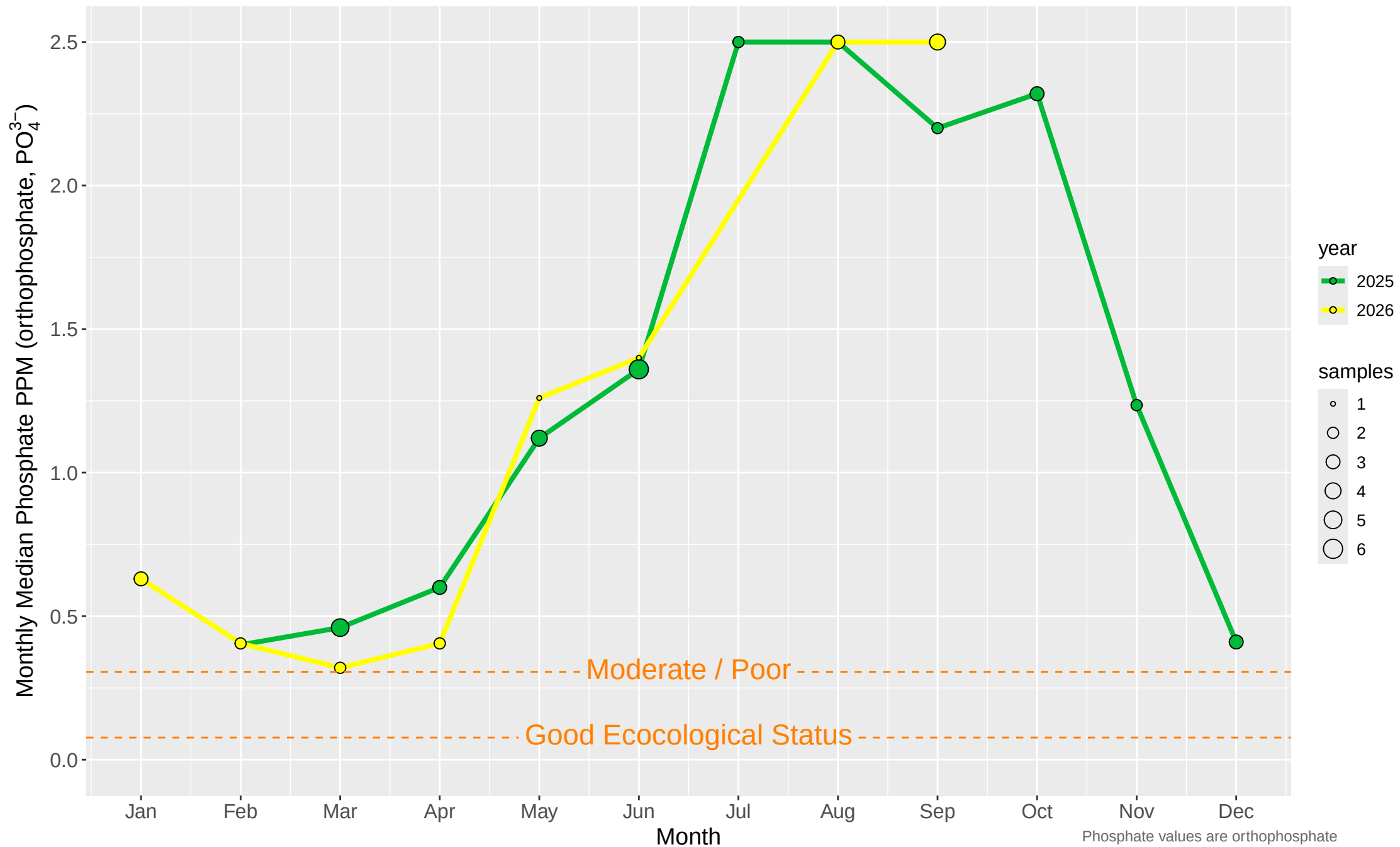
SafeAvon Phosphates – Individual Readings

Carrant Brook – Beckford – Crashmore Ln



SafeAvon Phosphates – By Month

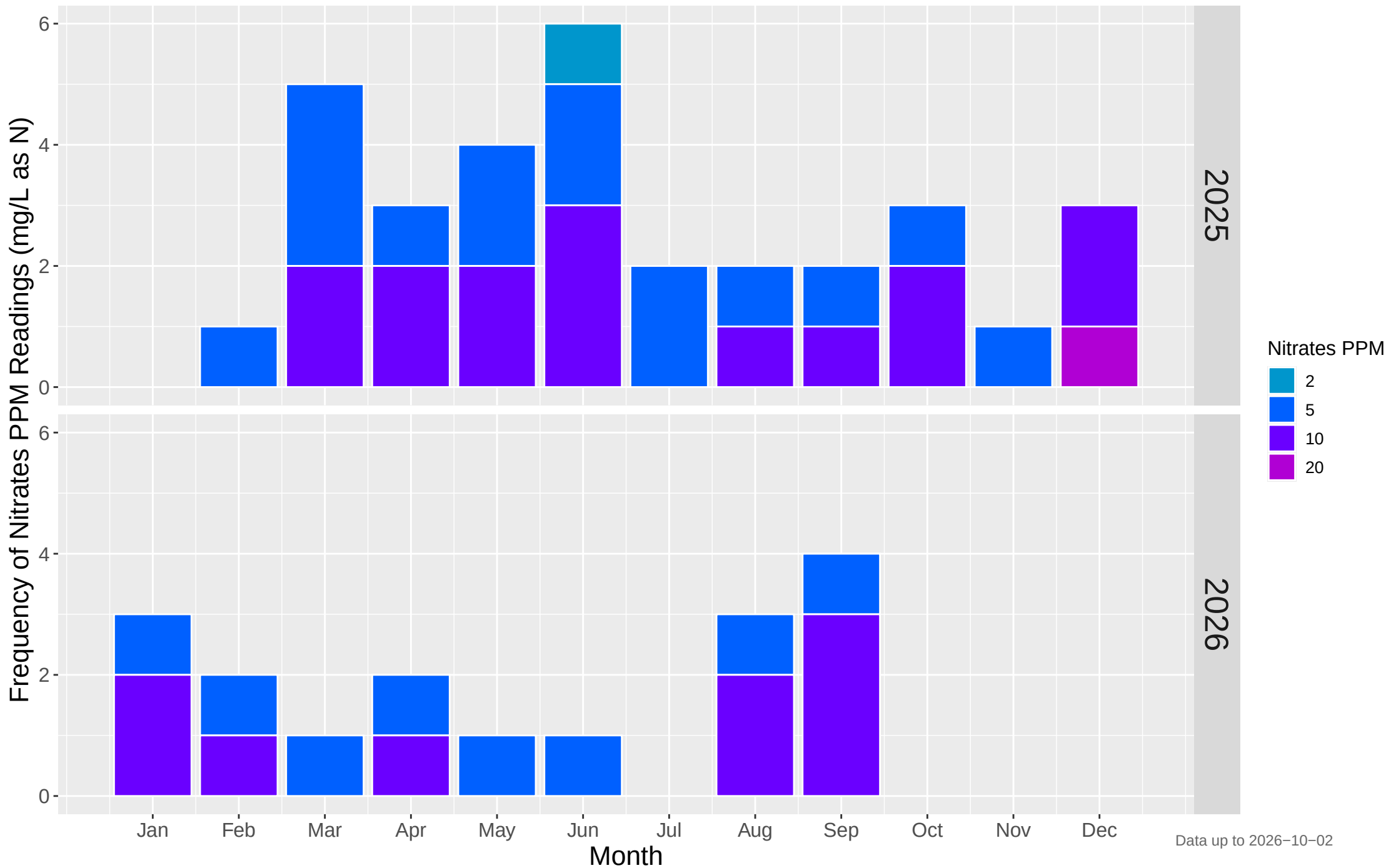
Carrant Brook – Beckford – Crashmore Ln



Phosphate values are orthophosphate
Data up to 2026-10-02

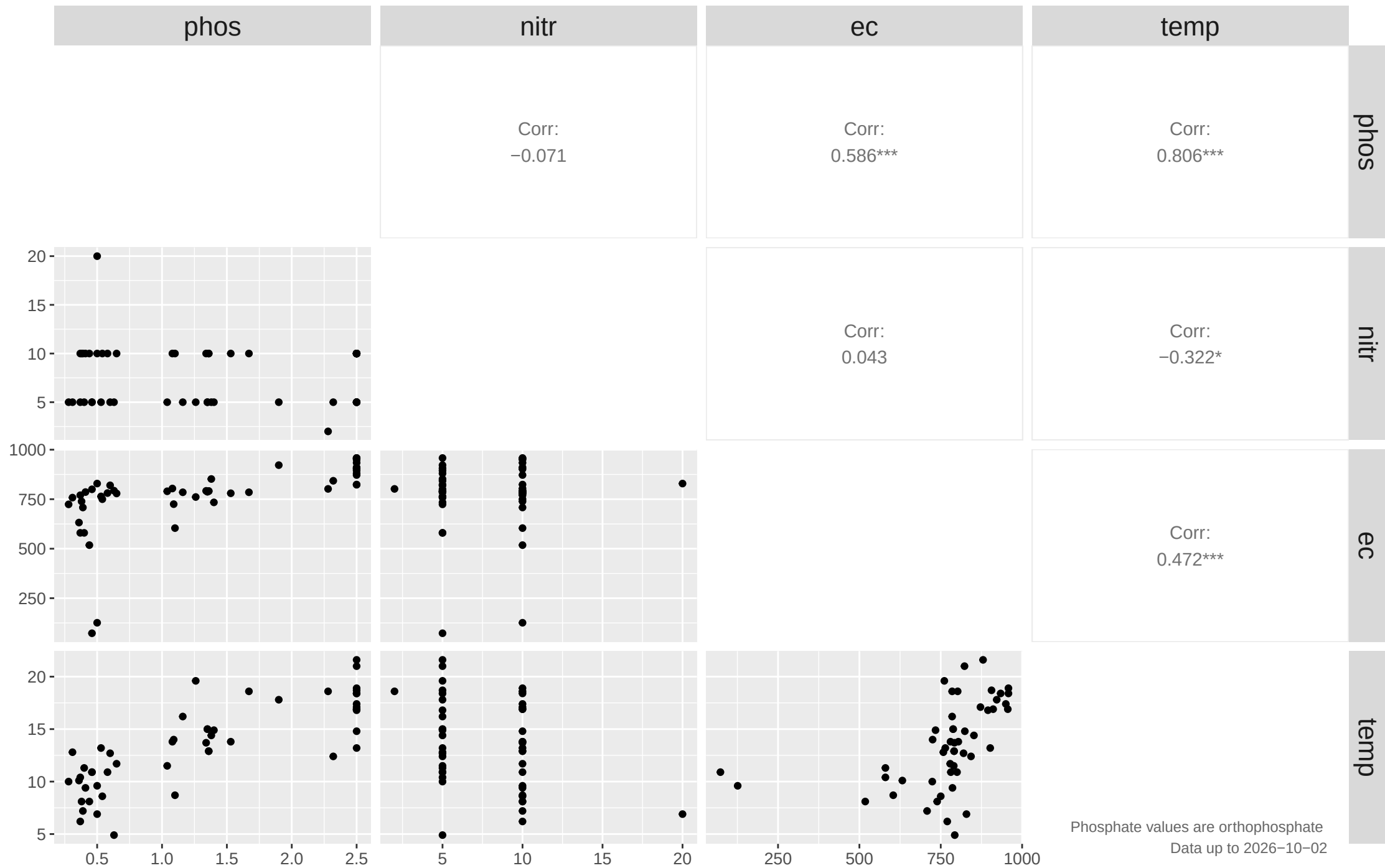
SafeAvon Nitrates By Month

Carrant Brook – Beckford – Crashmore Ln



Pairwise Testing Variables Relationships

Carrant Brook – Beckford – Crashmore Ln

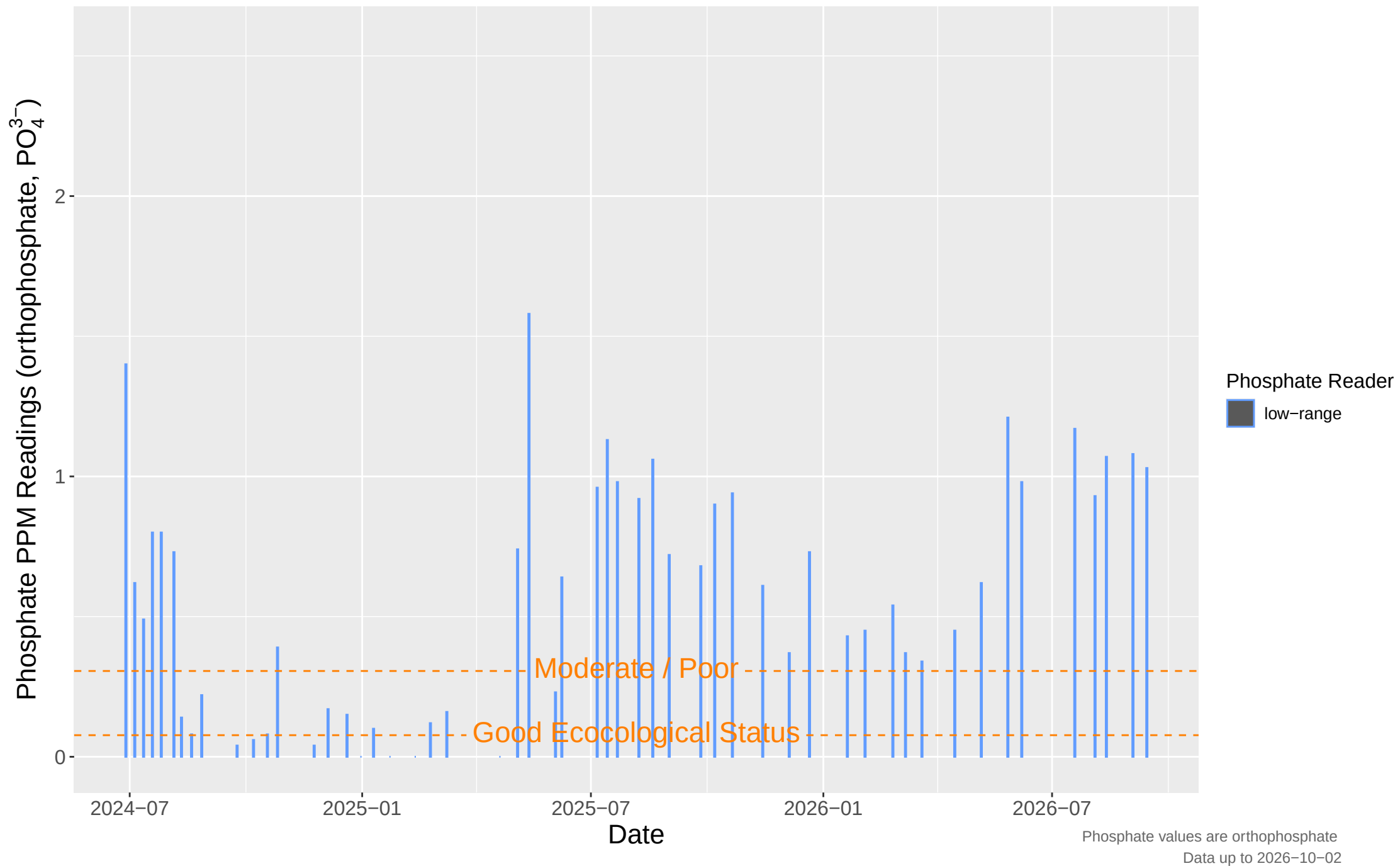


Site: Carrant Brook – Beckford – Back Ln

Start Date: 2024-06-28 | Most Recent: 2026-09-14 | Total Samples: 53 | Distinct Volunteers: 2

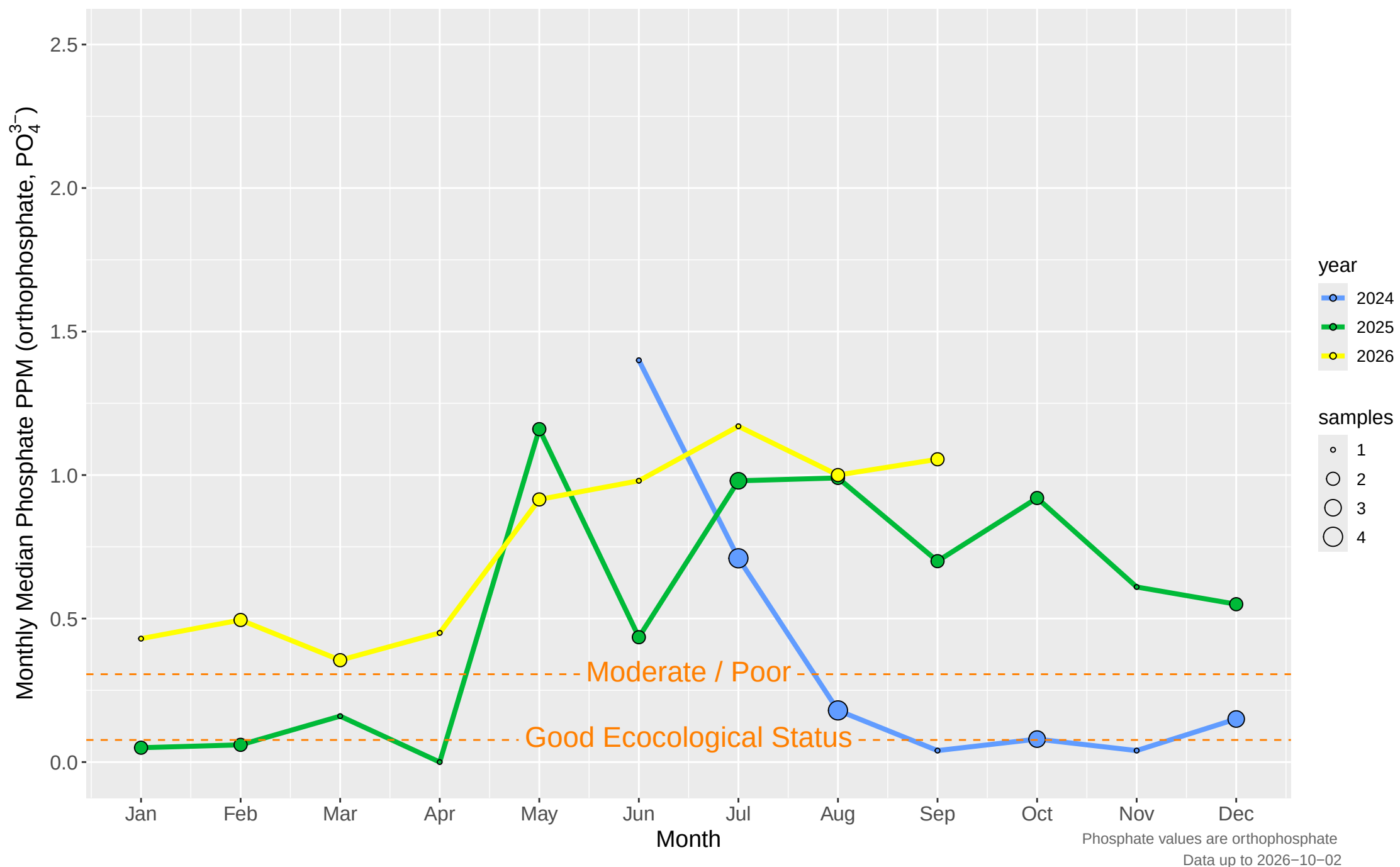
Season	Count		Phos Min	Phos Med	Phos Max		Nitr Min	Nitr Med	Nitr Max		EC Min	EC Med	EC Max		Temp Min	Temp Med	Temp Max
Summer 24	9		0.08	0.62	1.40		5	5.0	20		726	772	794		15.7	16.9	20.6
Autumn 24	5		0.04	0.06	0.39		5	5.0	10		420	688	759		13.1	14.3	15.6
Winter 24-25	7		0.00	0.10	0.17		5	5.0	10		464	698	803		5.8	9.5	11.8
Spring 25	4		0.00	0.45	1.58		5	7.5	10		770	778	797		10.9	12.5	17.1
Summer 25	7		0.23	0.96	1.13		2	5.0	10		794	820	931		12.5	18.1	19.1
Autumn 25	5		0.61	0.72	0.94		5	10.0	50		797	807	928		12.7	14.1	16.3
Winter 25-26	5		0.37	0.45	0.73		5	10.0	10		616	643	834		8.0	8.6	10.5
Spring 26	5		0.34	0.45	1.21		2	5.0	10		668	712	779		9.0	11.6	19.5
Summer 26	4		0.93	1.02	1.17		2	5.0	5		740	916	968		15.8	18.7	21.7
Autumn 26	2		1.03	1.06	1.08		5	5.0	5		854	878	902		17.5	17.6	17.8

Carrant Brook – Beckford – Back Ln



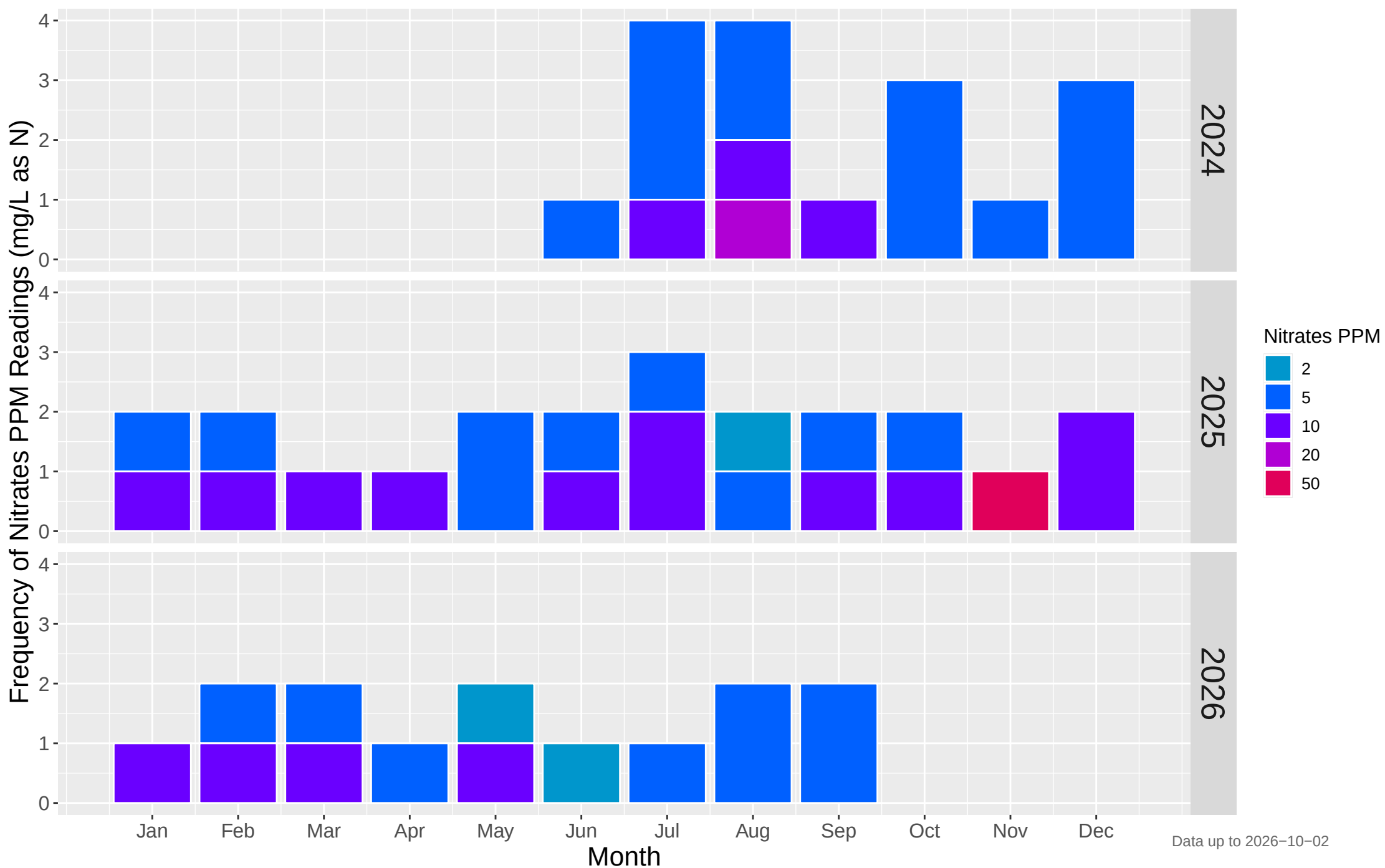
SafeAvon Phosphates – By Month

Carrant Brook – Beckford – Back Ln



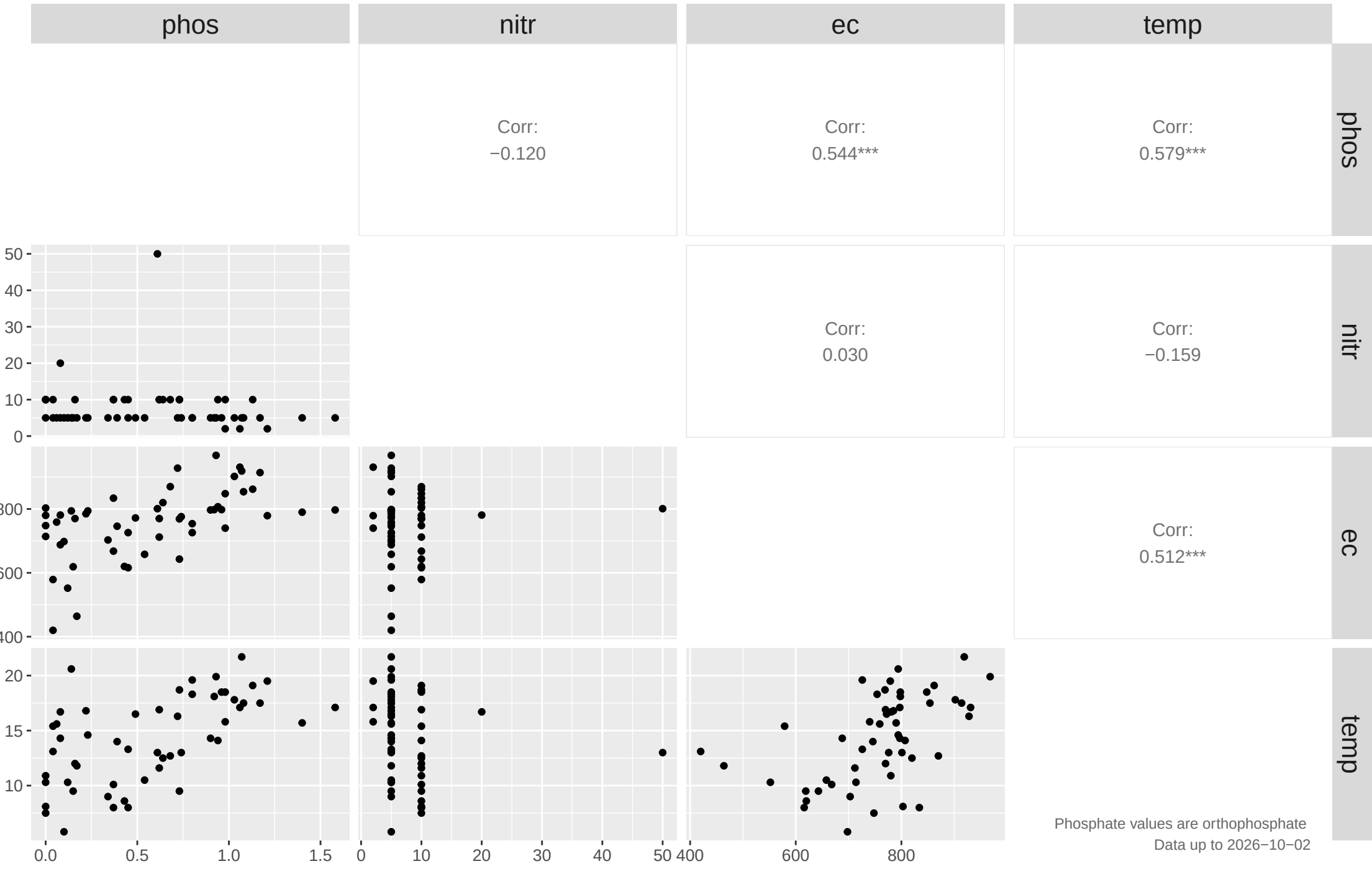
SafeAvon Nitrates By Month

Carrant Brook – Beckford – Back Ln



Pairwise Testing Variables Relationships

Carrant Brook – Beckford – Back Ln



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