

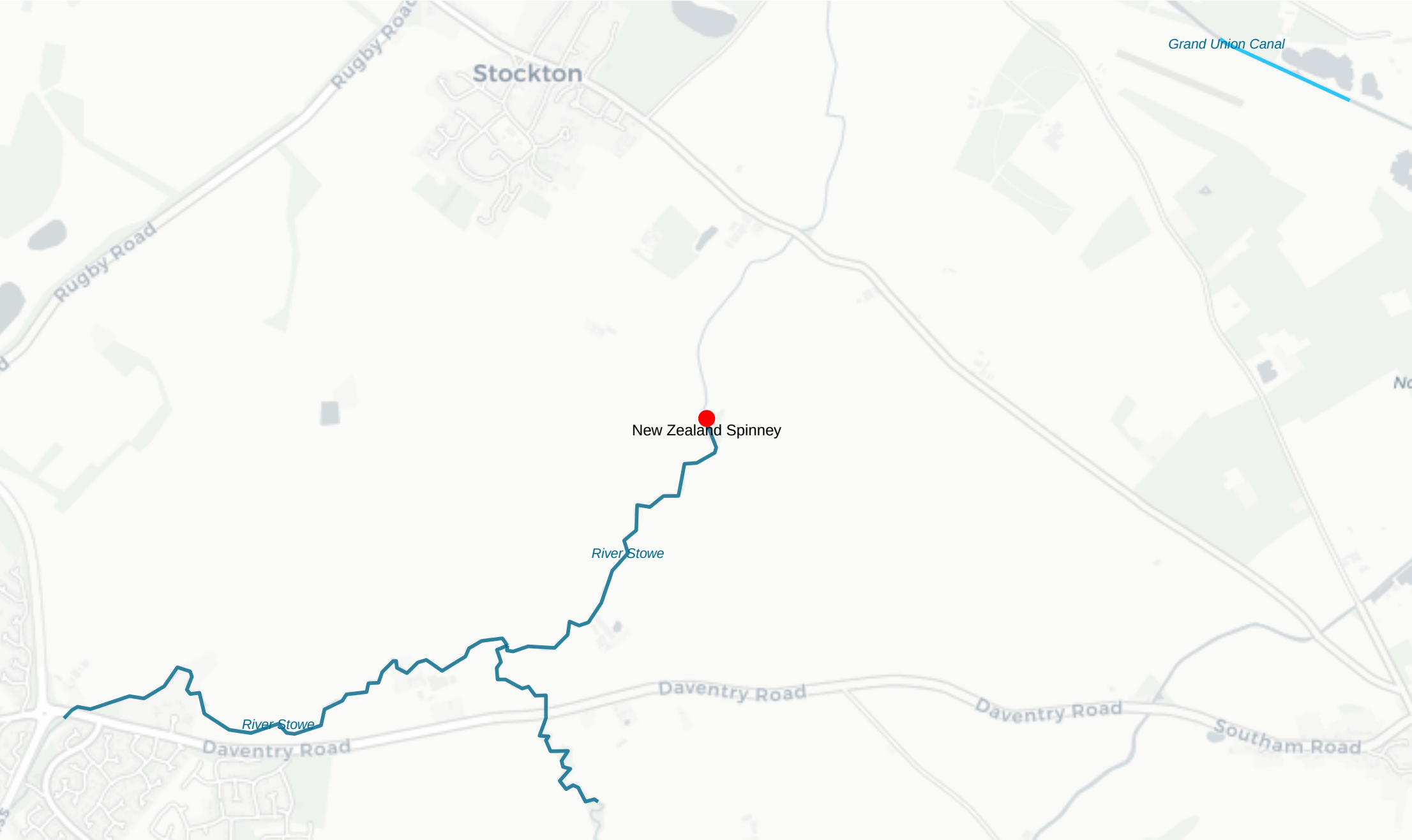
# SafeAvon Nutrient Testing Report: Stockton

*SafeAvon Sites By Waterway*

## Stowe River

. Stockton – New Zealand Spinney

SafeAvon Locations in Stockton

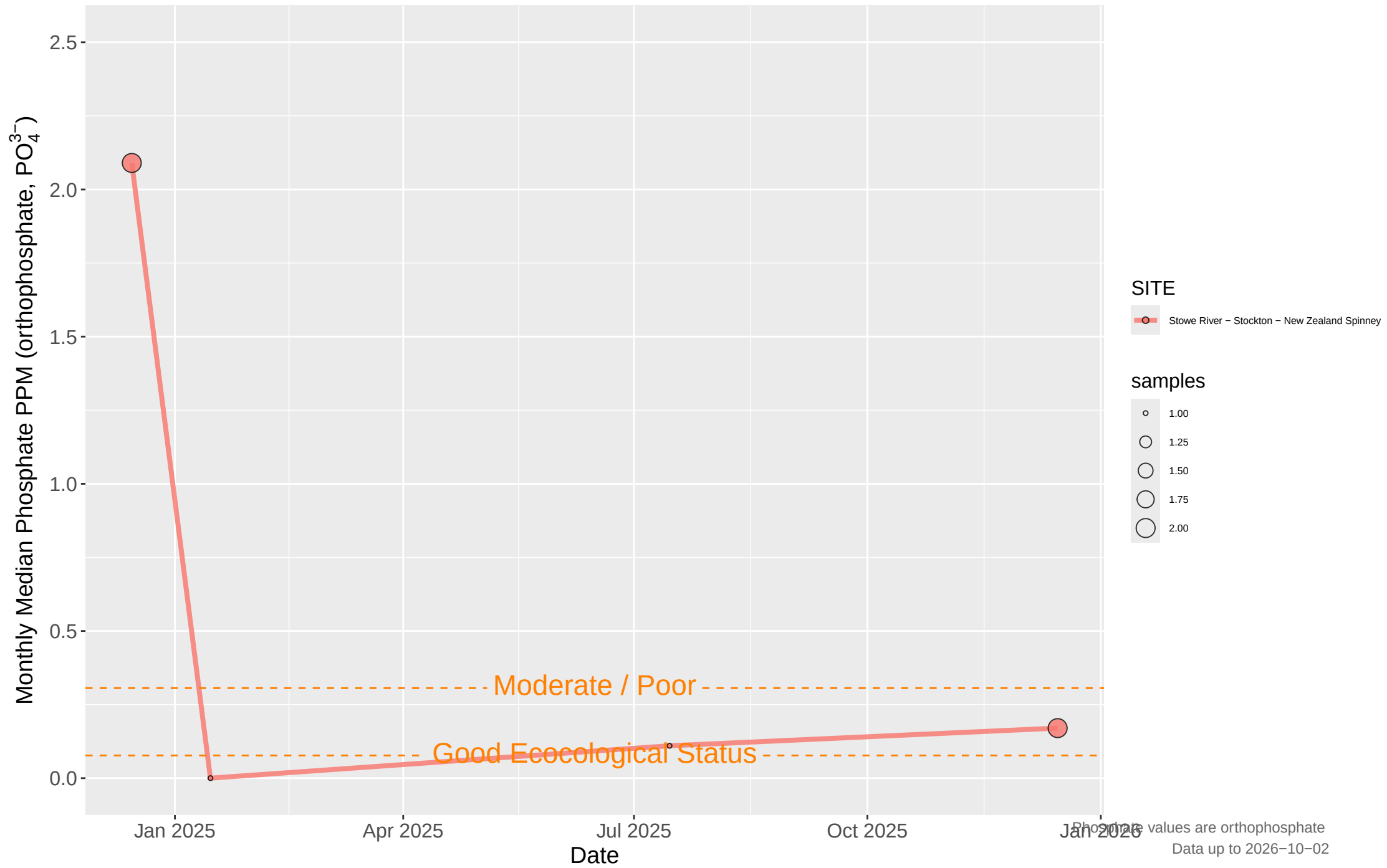


# Summary for sites in Stockton

| SITE                                         | Start      | Most Recent | Samples | Distinct Volunteers | Median Phosphates PPM | Median Nitrates PPM |
|----------------------------------------------|------------|-------------|---------|---------------------|-----------------------|---------------------|
| Stowe River – Stockton – New Zealand Spinney | 2024-12-08 | 2025-12-07  | 6       | 1                   | 0.17                  | 2                   |

# SafeAvon Phosphates – By Month

## Stockton



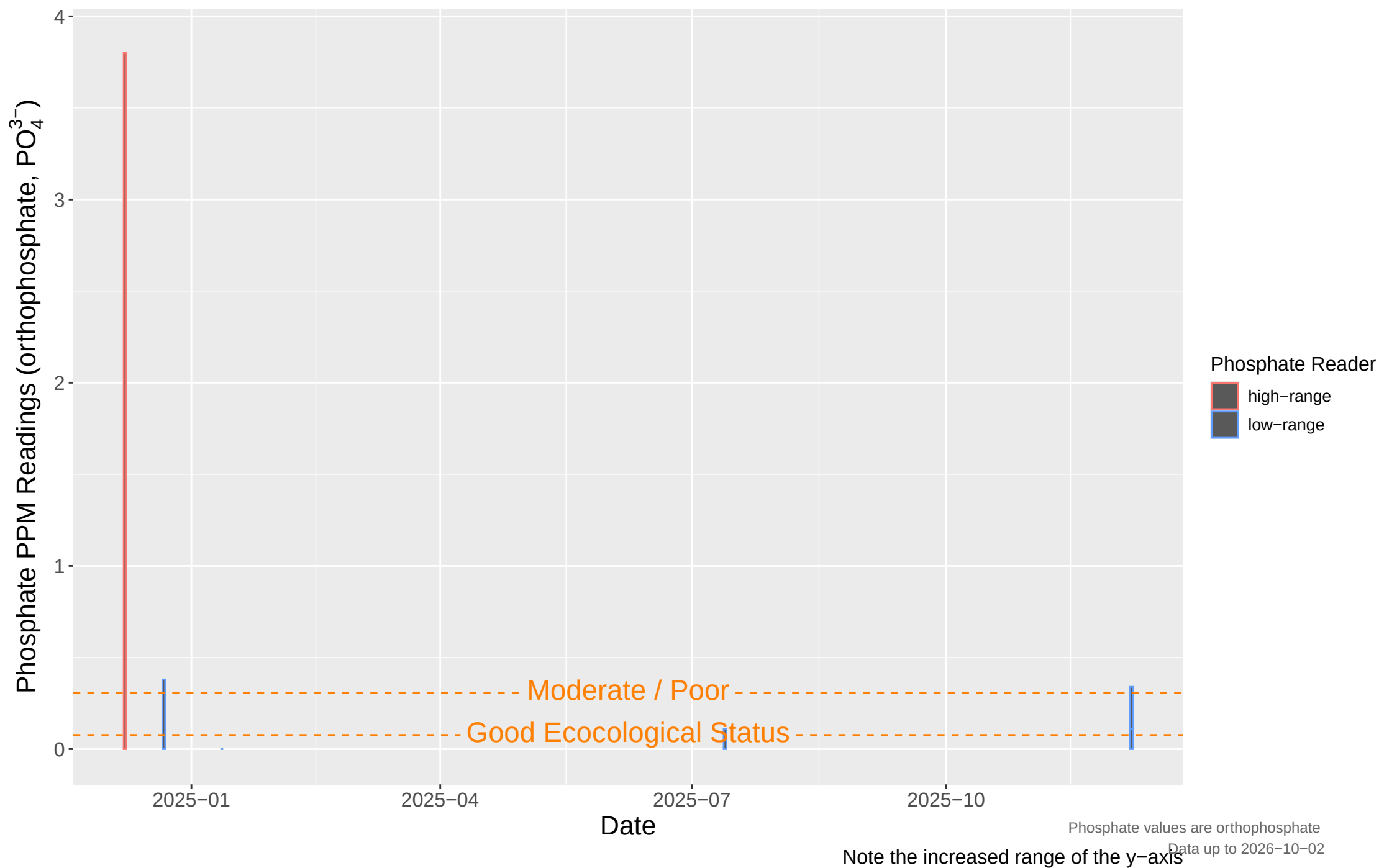
# Site: Stowe River – Stockton – New Zealand Spinney

Start Date: 2024-12-08 | Most Recent: 2025-12-07 | Total Samples: 6 | Distinct Volunteers: 1

| Season       | Count |  | Phos<br>Min | Phos<br>Med | Phos<br>Max |  | Nitr<br>Min | Nitr<br>Med | Nitr<br>Max |  | EC<br>Min | EC<br>Med | EC<br>Max |  | Temp<br>Min | Temp<br>Med | Temp<br>Max |
|--------------|-------|--|-------------|-------------|-------------|--|-------------|-------------|-------------|--|-----------|-----------|-----------|--|-------------|-------------|-------------|
| Winter 24-25 | 3     |  | 0.00        | 0.38        | 3.80        |  | 0           | 2           | 2           |  | 849       | 864       | 880       |  | 3.6         | 6.1         | 7.2         |
| Summer 25    | 1     |  | 0.11        | 0.11        | 0.11        |  | 0           | 0           | 0           |  | 744       | 744       | 744       |  | 19.2        | 19.2        | 19.2        |
| Winter 25-26 | 2     |  | 0.11        | 0.17        | 0.23        |  | 10          | 10          | 10          |  | 587       | 708       | 828       |  | 8.5         | 8.8         | 9.2         |

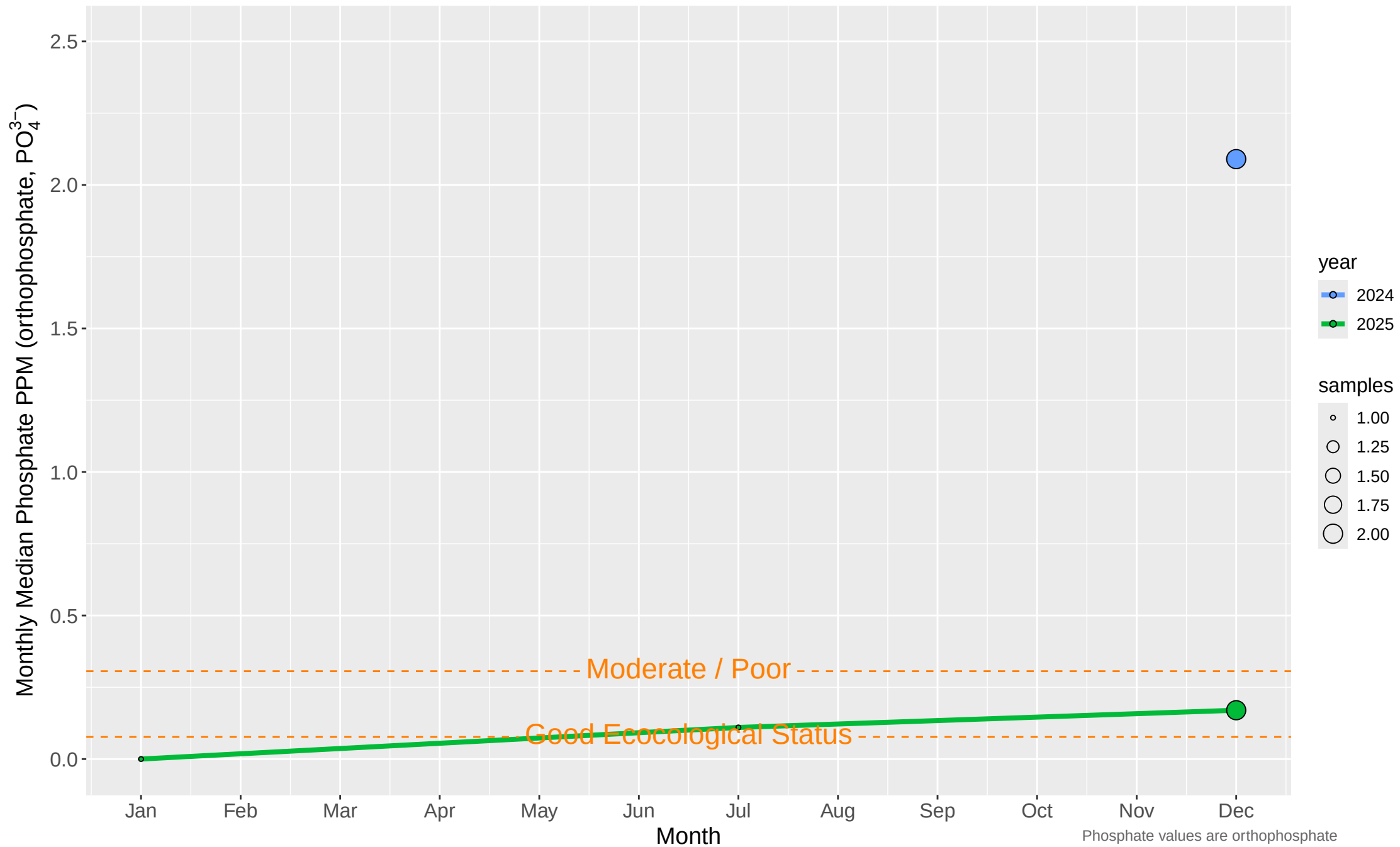
# SafeAvon Phosphates – Individual Readings

## Stowe River – Stockton – New Zealand Spinney



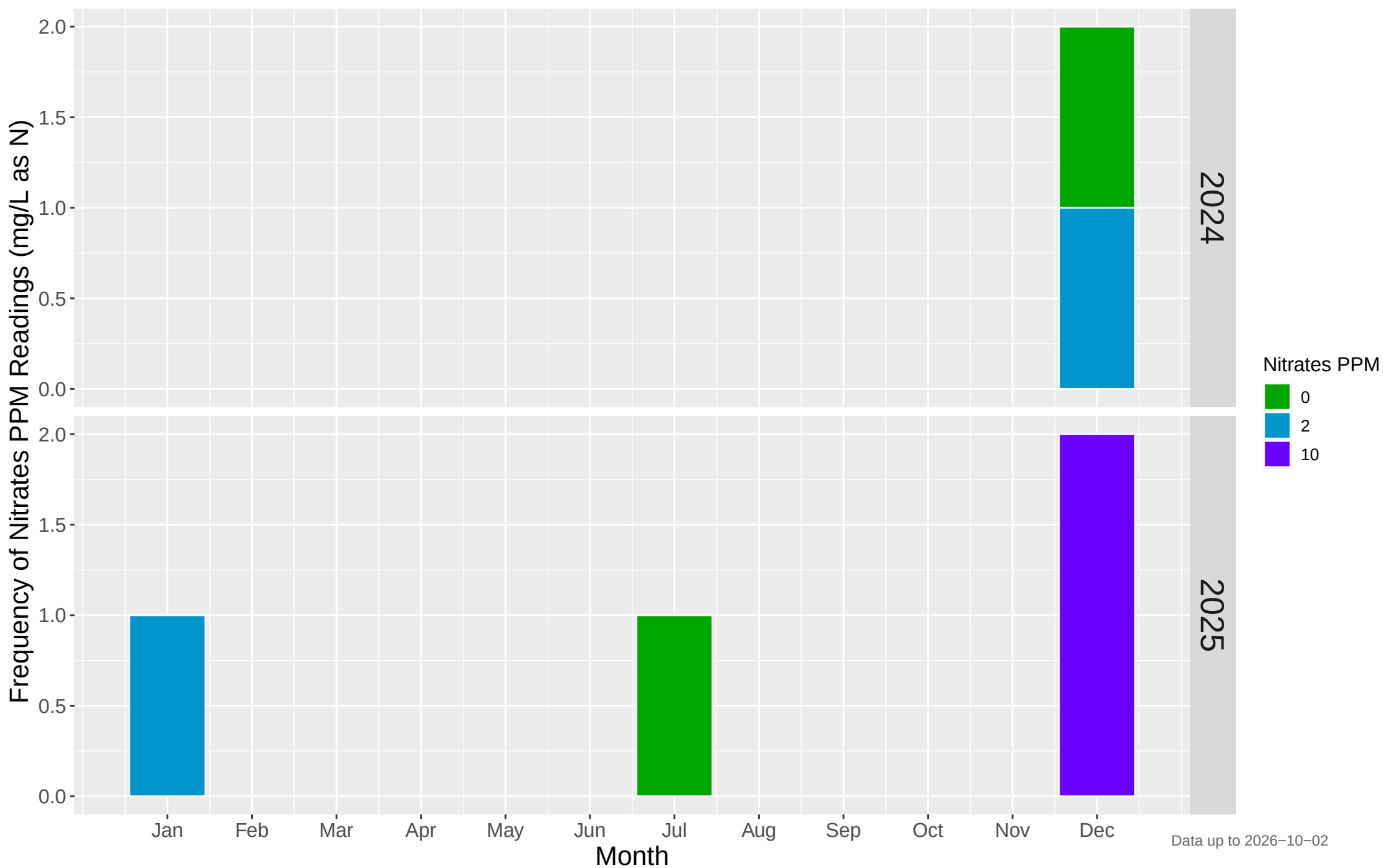
# SafeAvon Phosphates – By Month

## Stowe River – Stockton – New Zealand Spinney



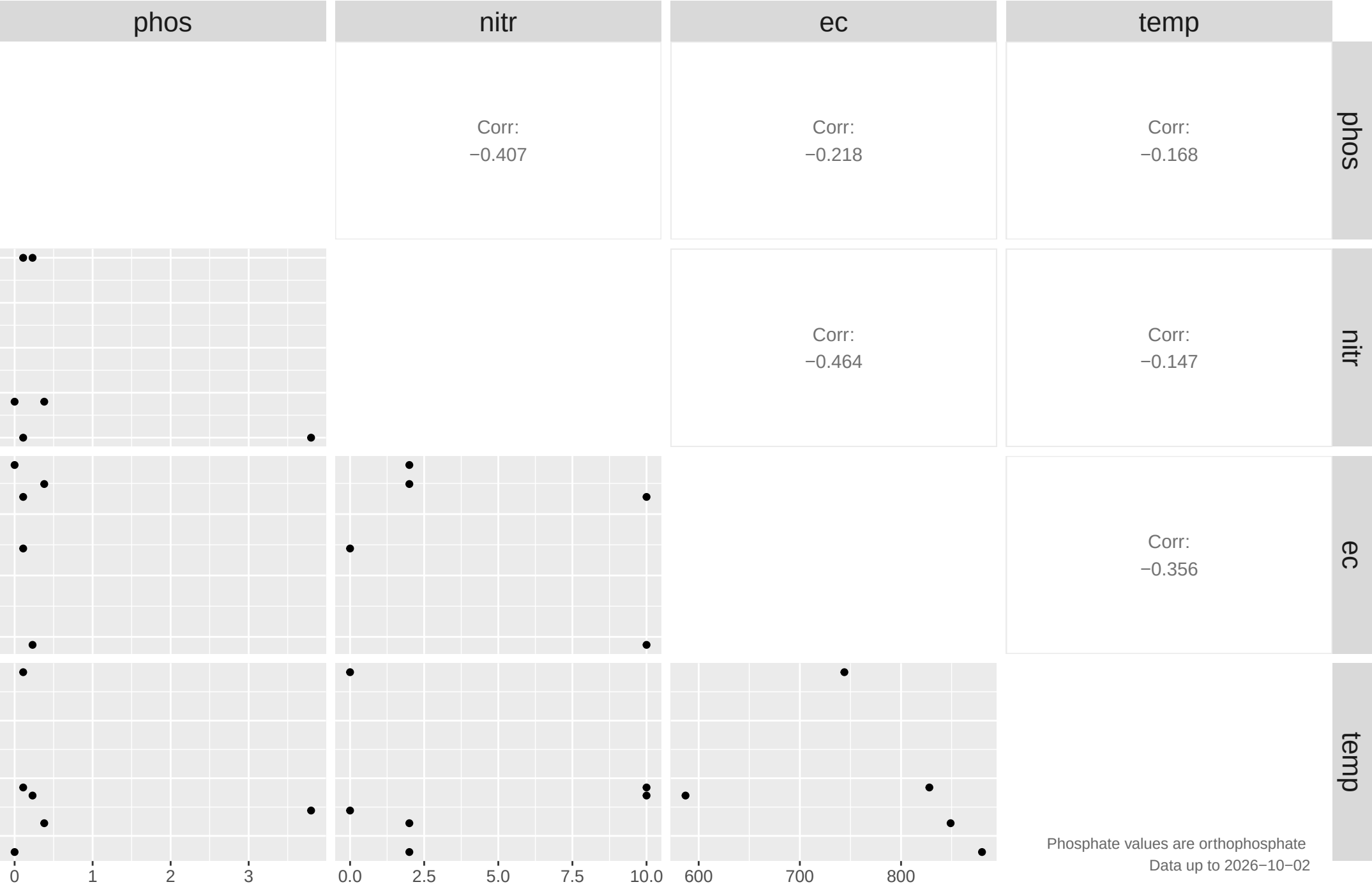
# SafeAvon Nitrates By Month

## Stowe River – Stockton – New Zealand Spinney



# Pairwise Testing Variables Relationships

## Stowe River – Stockton – New Zealand Spinney



# 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, PO<sub>4</sub><sup>3–</sup>)

- 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](https://safeavon.org.uk/?page_id=151)