

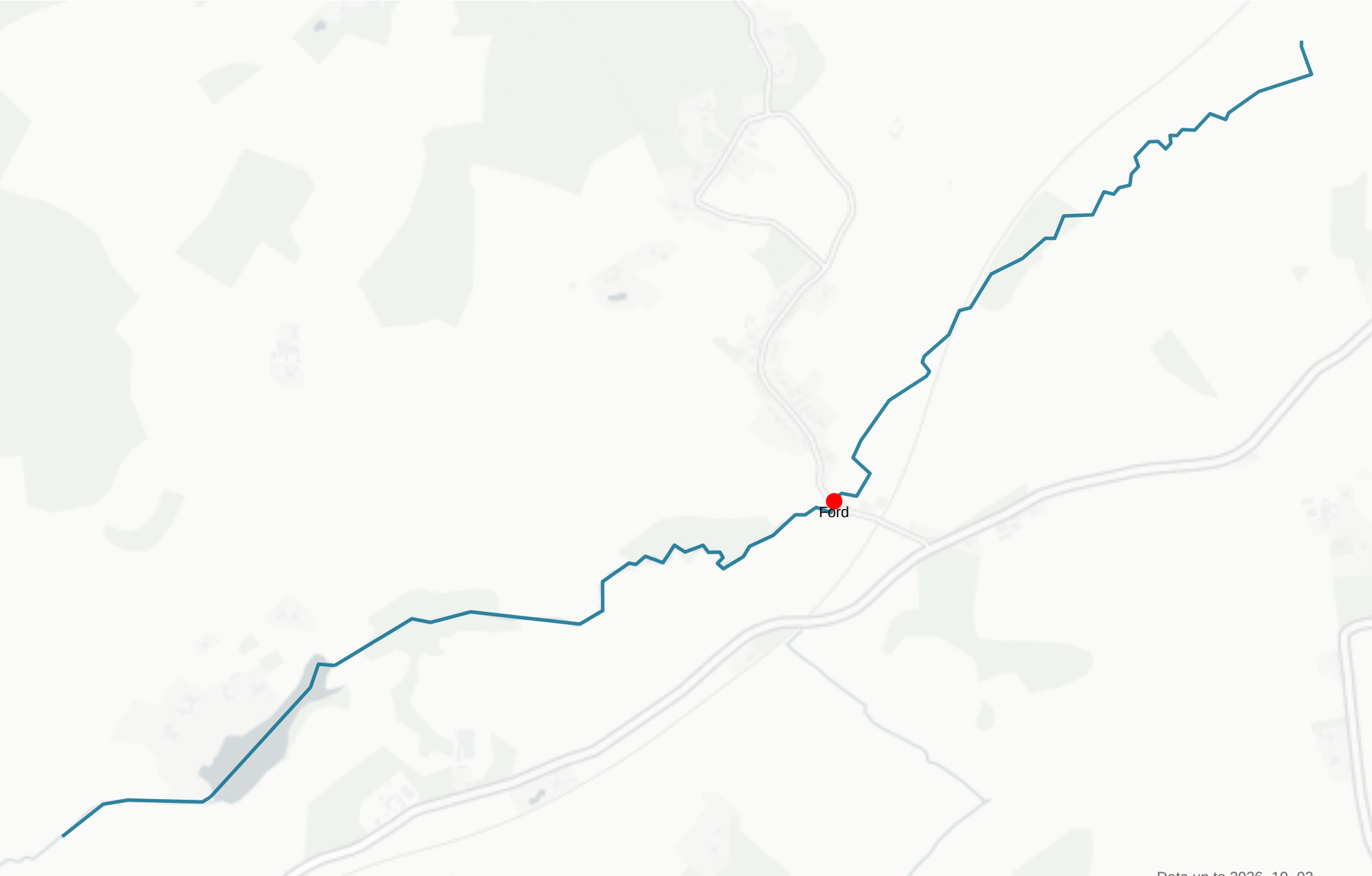
# SafeAvon Nutrient Testing Report: Langley

*SafeAvon Sites By Waterway*

## **Tributary (Alne River)**

. Langley – Ford

SafeAvon Locations in Langley

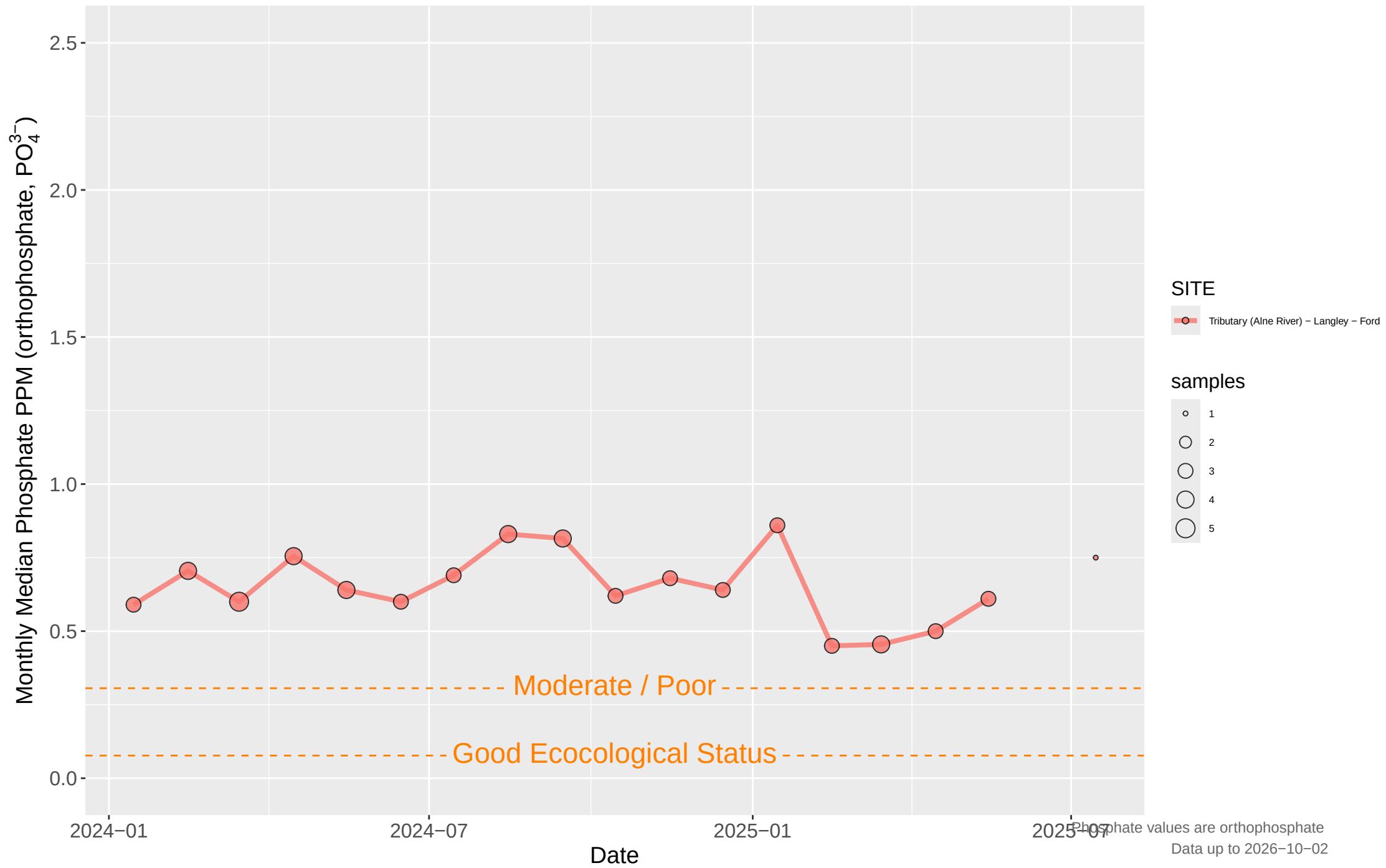


# Summary for sites in Langley

| SITE                                    | Start      | Most Recent | Samples | Distinct Volunteers | Median Phosphates PPM | Median Nitrates PPM |
|-----------------------------------------|------------|-------------|---------|---------------------|-----------------------|---------------------|
| Tributary (Alne River) – Langley – Ford | 2024-01-13 | 2025-07-28  | 64      | 1                   | 0.645                 | 5                   |

# SafeAvon Phosphates – By Month

## Langley



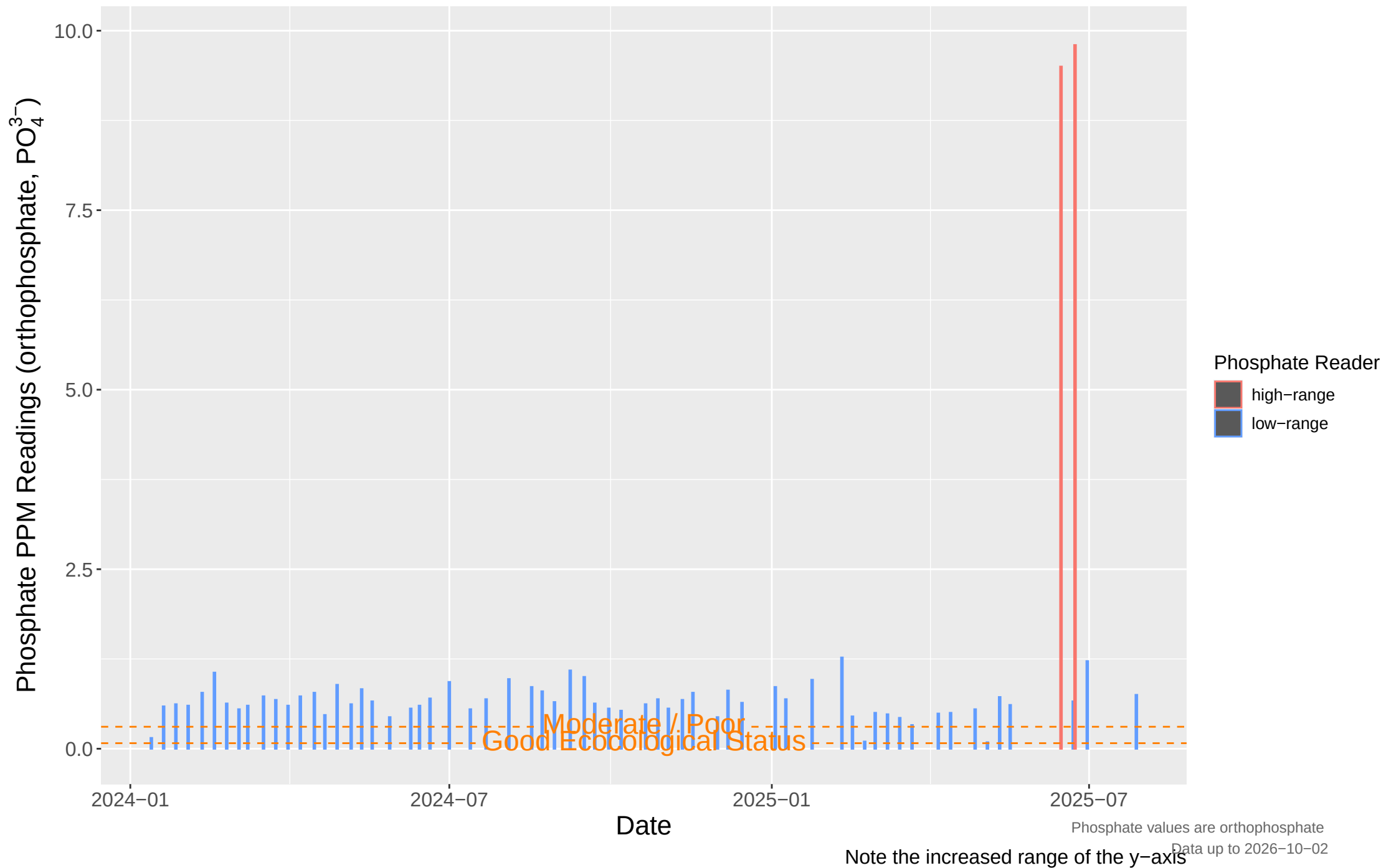
# Site: Tributary (Alne River) – Langley – Ford

Start Date: 2024-01-13 | Most Recent: 2025-07-28 | Total Samples: 64 | 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 23-24 | 7     |  | 0.15        | 0.62        | 1.06        |  | 2           | 5           | 10          |  | 199       | 687       | 762       |  | 5.1         | 7.5         | 12.3        |
| Spring 24    | 13    |  | 0.44        | 0.66        | 0.89        |  | 1           | 5           | 5           |  | 223       | 634       | 899       |  | 8.0         | 11.0        | 16.0        |
| Summer 24    | 10    |  | 0.55        | 0.70        | 0.97        |  | 2           | 5           | 10          |  | 811       | 846       | 865       |  | 12.5        | 15.6        | 16.9        |
| Autumn 24    | 10    |  | 0.53        | 0.66        | 1.09        |  | 1           | 5           | 10          |  | 585       | 730       | 847       |  | 10.1        | 12.6        | 16.5        |
| Winter 24-25 | 9     |  | 0.10        | 0.69        | 1.27        |  | 2           | 5           | 10          |  | 272       | 659       | 871       |  | 5.1         | 6.5         | 10.1        |
| Spring 25    | 10    |  | 0.09        | 0.50        | 0.72        |  | 2           | 5           | 10          |  | 447       | 803       | 876       |  | 6.8         | 11.5        | 14.6        |
| Summer 25    | 5     |  | 0.66        | 1.22        | 9.80        |  | 5           | 5           | 10          |  | 814       | 872       | 897       |  | 14.3        | 17.6        | 20.7        |

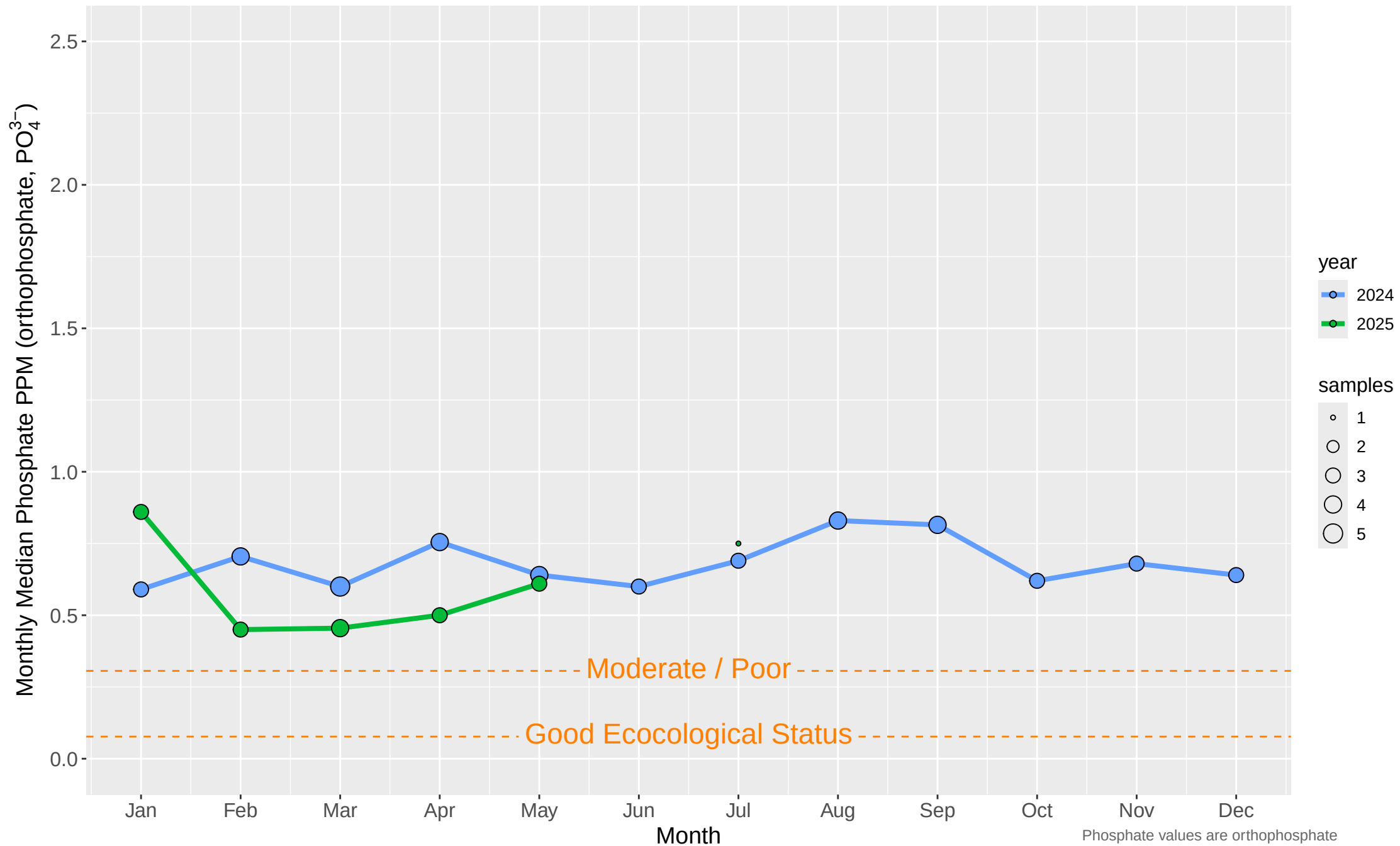
# SafeAvon Phosphates – Individual Readings

## Tributary (Alne River) – Langley – Ford



# SafeAvon Phosphates – By Month

## Tributary (Alne River) – Langley – Ford

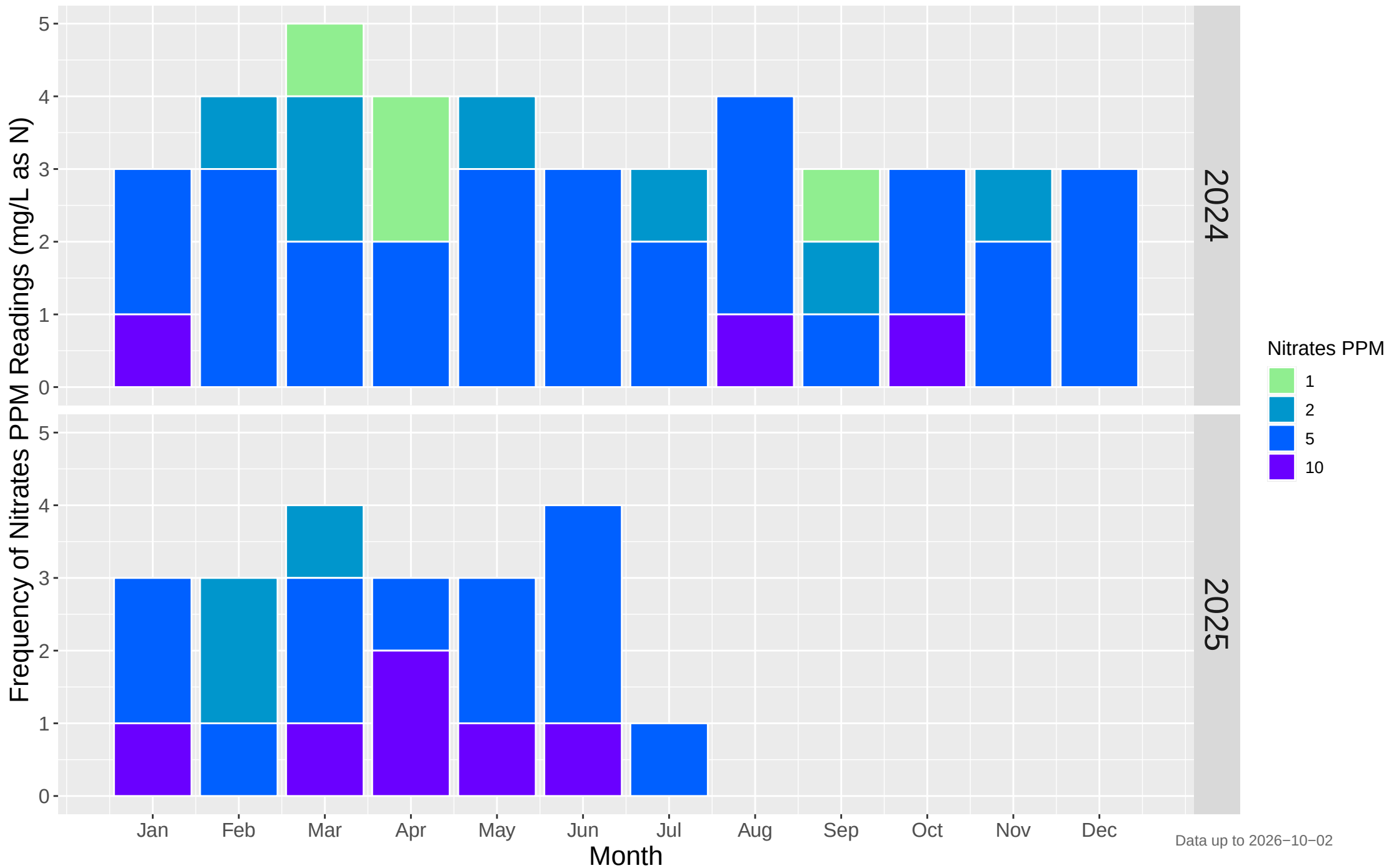


Phosphate values are orthophosphate

Note the increased range of the y-axis  
Data up to 2026-10-02

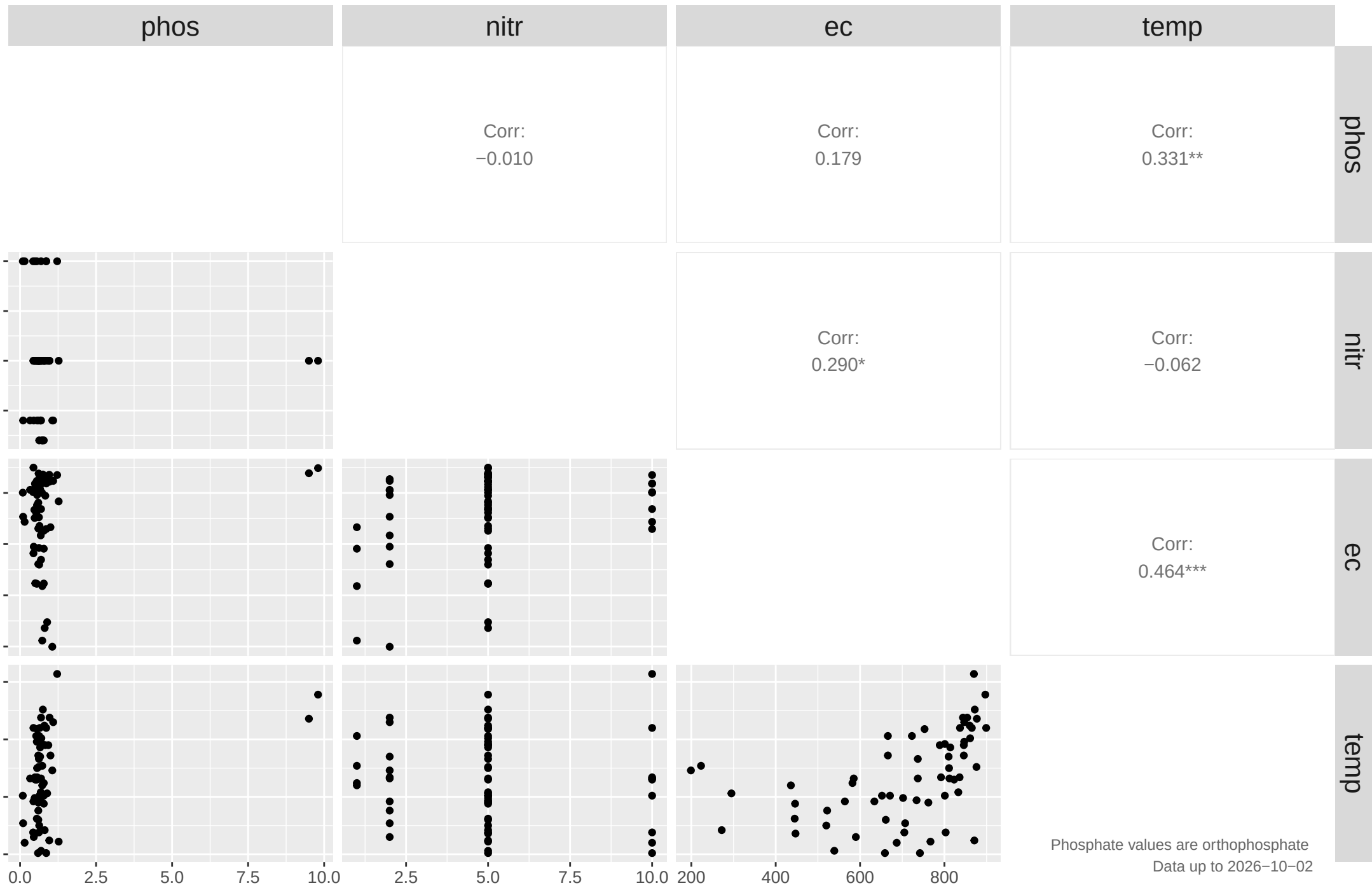
# SafeAvon Nitrates By Month

## Tributary (Alne River) – Langley – Ford



# Pairwise Testing Variables Relationships

## Tributary (Alne River) – Langley – Ford



# 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)