

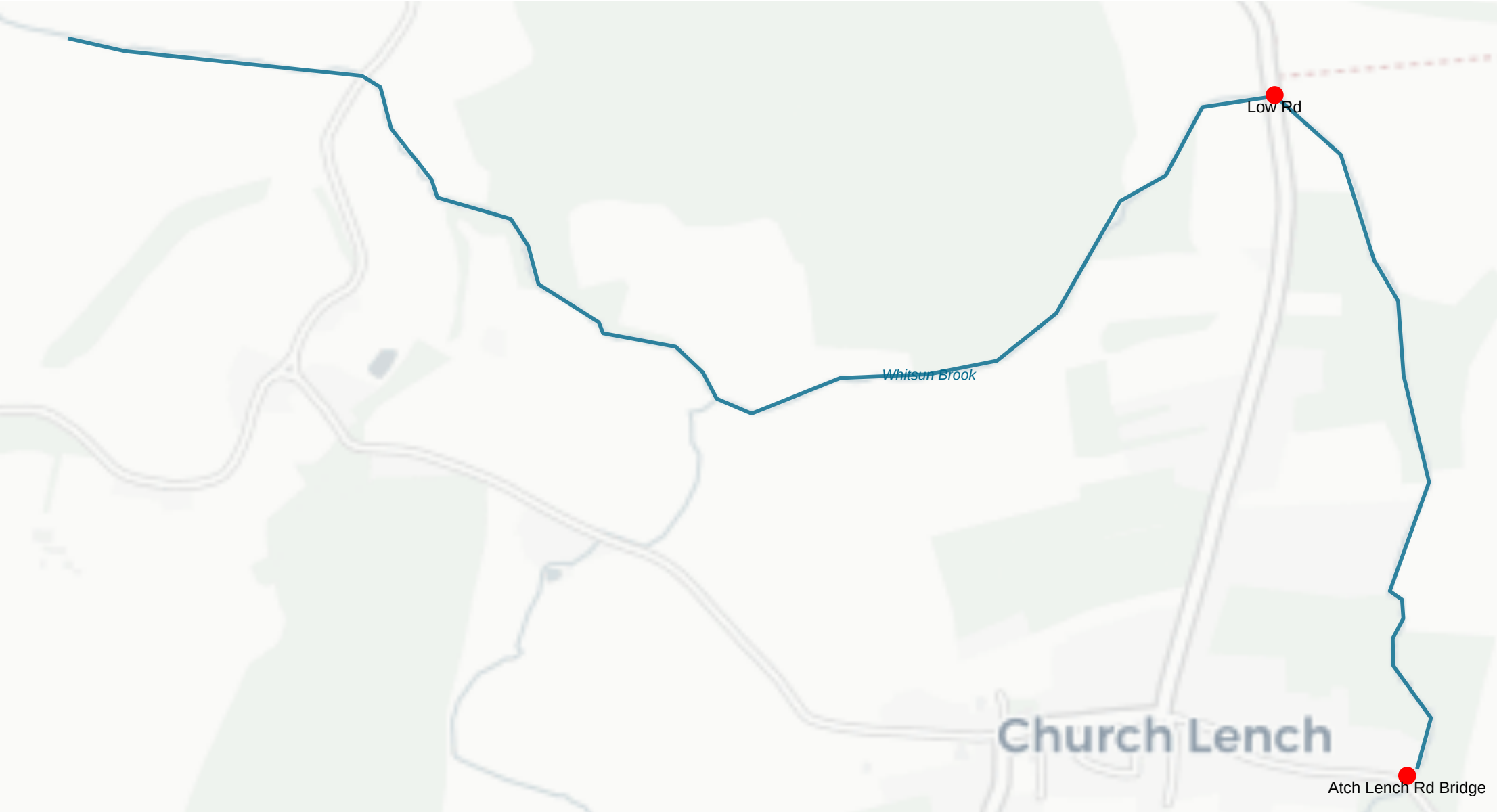
# SafeAvon Nutrient Testing Report: Church Lench

## *SafeAvon Sites By Waterway*

### **Whitsun Brook**

- . Church Lench – Atch Lench Rd Bridge
- . Church Lench – Low Rd

SafeAvon Locations in Church Lench

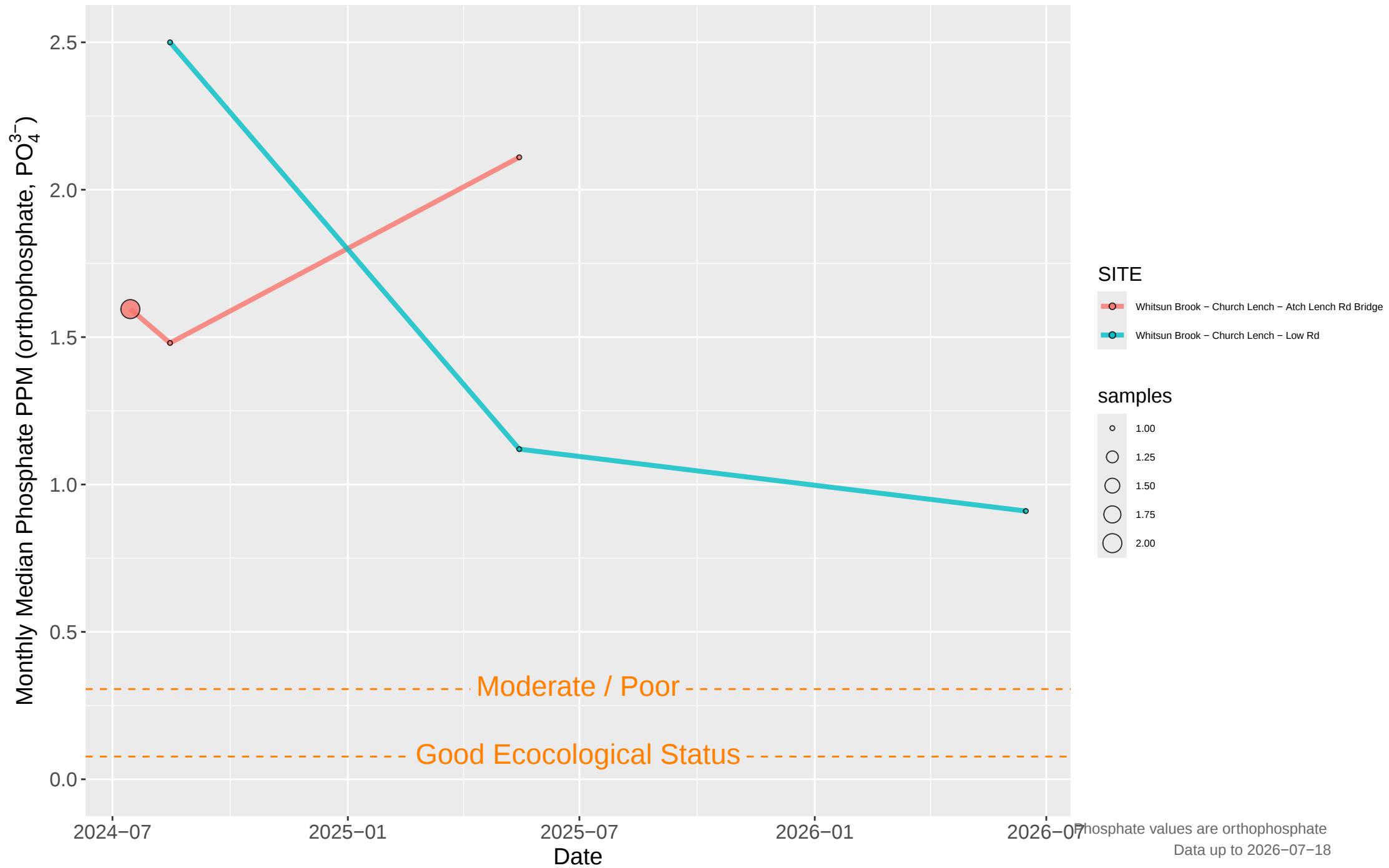


# Summary for sites in Church Lench

| SITE                                                | Start      | Most Recent | Samples | Distinct Volunteers | Median Phosphates PPM | Median Nitrates PPM |
|-----------------------------------------------------|------------|-------------|---------|---------------------|-----------------------|---------------------|
| Whitsun Brook – Church Lench – Low Rd               | 2024-08-24 | 2026-06-15  | 3       | 1                   | 1.120                 | 10                  |
| Whitsun Brook – Church Lench – Atch Lench Rd Bridge | 2024-07-20 | 2025-05-24  | 4       | 1                   | 1.795                 | 2                   |

# SafeAvon Phosphates – By Month

## Church Lench



# 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)