



# RLCP Citizen Science River Lark Water Quality Monitoring Project



Water Quality Monitoring – Abbots Vale  
Preliminary Results from Samples between October 2022 and April 2023

| Location Code | Date     | pH   | Temp (C) | Ammonia unionised (mg/l) NH3 | Ammonium (mg/l) NH4 | Nitrate (mg l-1) NO3 | Nitrite (mg l-1) NO2 | Phosphate (mg l-1) PO4 | Suspended Solids (mg l-1) TSS |
|---------------|----------|------|----------|------------------------------|---------------------|----------------------|----------------------|------------------------|-------------------------------|
| AV02          | 10.10.22 | 7.62 | 10.7     | 0.00601                      | 0.9804              | <4.43                | <0.0329              | 0.86                   | 24                            |
| AV01          | 11.11.22 | 7.58 | 12.3     | 0.00065                      | 0.1032              | 58.033               | 0.329                | 0.55                   | 4                             |
| AV02          | 11.11.22 | 7.65 | 12.4     | 0.00105                      | 0.1419              | 54.489               | 0.6909               | 0.38                   | 5                             |
| AV01          | 12.12.22 | 7.6  | 3.2      | 0.00039                      | 0.1161              | 58.033               | 0.1316               | 0.59                   | 6                             |
| AV02          | 12.12.22 | 7.81 | 3.1      | 0.00021                      | 0.0387              | 50.059               | 0.1316               | 0.39                   | 7                             |
| AV01          | 07.01.23 | 7.86 | 8.7      | 0.00083                      | 0.0903              | 98.346               | 0.0329               | 0.37                   | under range                   |
| AV02          | 07.01.23 | 7.91 | 8.8      | 0.00093                      | 0.0903              | 91.258               | 0.2303               | 0.31                   | under range                   |
| AV01          | 13.02.23 | 8.03 | 7.0      | 0.00138                      | 0.1161              | 70.437               | 0.2303               | 0.55                   | 2                             |
| AV02          | 13.02.23 | 7.87 | 7.3      | 0.00098                      | 0.1161              | 70.437               | 0.1974               | 0.5                    | under range                   |

| Location Code | Date     | pH   | Temp (C) | Ammonia unionised (mg/l) NH3 | Ammonium (mg/l) NH4 | Nitrate (mg l-1) NO3 | Nitrite (mg l-1) NO2 | Phosphate (mg l-1) PO4 | Suspended Solids (mg l-1) TSS |
|---------------|----------|------|----------|------------------------------|---------------------|----------------------|----------------------|------------------------|-------------------------------|
| AV04          | 13.02.23 | 7.67 | 7.4      | 0.00035                      | 0.0645              | 45.186               | 0.0987               | 0.34                   | 3                             |
| AV01          | 24.03.23 | 8.03 | 9        | 0.00071                      | 0.0516              | 58.476               | 0.1316               | 0.31                   | 5                             |
| AV02          | 24.03.23 | 7.93 | 9.3      | 0.00116                      | 0.1032              | 65.121               | 0.0987               | 0.22                   | 6                             |
| AV01          | 29.04.23 | 8.13 | 10.2     | 0.00121                      | 0.0645              | 61.577               | 0.1974               | 0.31                   | under range                   |
| AV02          | 29.04.23 | 7.97 | 10.5     | 0.00069                      | 0.0516              | 54.932               | 0.1316               | 0.3                    | 9                             |

**Water Quality Monitoring – Tollgate**  
**Preliminary Results from Samples between September 2022 and February 2023**

| Locati<br>on<br>Code | Date     | pH   | Temp (C)     | Ammonia unionised<br>(mg/l) NH3 | Ammonium<br>(mg/l) NH4 | Nitrate (mg l-1) NO3 | Nitrite (mg l-1)<br>NO2 | Phosphate<br>(mg l-1) PO4 | Suspended Solids<br>(mg l-1) TSS |
|----------------------|----------|------|--------------|---------------------------------|------------------------|----------------------|-------------------------|---------------------------|----------------------------------|
| TG01                 | 15.09.22 | 7.57 | not recorded | not recorded                    | 0.1806                 | 31.01                | 0.2303                  | 0.35                      | under range                      |
| TG02                 | 15.09.22 | 7.67 | 15.7         | 0.00103                         | 0.1032                 | 16.834               | 0.1974                  | 0.51                      | under range                      |
| TG04                 | 15.09.22 | 7.54 | 15.7         | 0.00076                         | 0.1032                 | 19.492               | 0.2303                  | 0.57                      | 3                                |
| TG07                 | 15.09.22 | 7.8  | 16.4         | 0.00254                         | 0.1806                 | 20.378               | 0.2303                  | 0.3                       | 3                                |
| TG08<br>(ditch)      | 15.09.22 | 7.52 | 15.6         | 0.00489                         | 0.6966                 | 11.961               | 1.2502                  | >4                        | 289                              |
| TG09                 | 15.09.22 | 7.59 | 16.3         | 0.00168                         | 0.1935                 | 23.036               | 0.2632                  | 0.26                      | 2                                |
| TG10                 | 15.09.22 | 7.44 | not recorded | not recorded                    | >1.29                  | 18.606               | 0.5922                  | 0.1                       | 2                                |

| Locati<br>on<br>Code | Date       | pH   | Temp (C) | Ammonia unionised<br>(mg/l) NH3 | Ammonium<br>(mg/l) NH4 | Nitrate (mg l-1) NO3 | Nitrite (mg l-1)<br>NO2 | Phosphate<br>(mg l-1) PO4 | Suspended Solids<br>(mg l-1) TSS |
|----------------------|------------|------|----------|---------------------------------|------------------------|----------------------|-------------------------|---------------------------|----------------------------------|
| TG01                 | 10.10.22   | 7.5  | 11.7     | 0.00175                         | 0.3483                 | 22.15                | 0.1974                  | 0.54                      | 42                               |
| TG10                 | 10.10.22   | 7.32 | 11.8     | >0.00432                        | >1.29                  | 15.062               | 0.3948                  | 0.14                      | 3                                |
| TG11                 | 10.10.22   | 7.49 | 11.8     | 0.00077                         | 0.1548                 | 50.059               | 0.4506                  | 0.63                      | 14                               |
| TG01                 | 10.12.22   | 7.5  | 5.3      | >0.00432                        | >1.29                  | 34.997               | 0.2303                  | 0.65                      | 3                                |
| TG09A                | 10.12.2022 | 7.58 | 5.1      | 0.00153                         | 0.4128                 | 31.896               | 0.1974                  | 0.37                      | under range                      |
| TG09B                | 10.12.22   | 7.46 | 5.4      | >0.00432                        | >1.29                  | 34.111               | 0.2961                  | 0.27                      | 7                                |
| TG10                 | 10.12.22   | 7.31 | 5.5      | >0.00432                        | >1.29                  | 27.466               | 0.2961                  | 0.3                       | 10                               |
| TG11                 | 10.12.22   | 7.71 | 5.2      | 0.00640                         | 1.2771                 | 45.186               | 0.7238                  | 0.68                      | 12                               |

| Locati<br>on<br>Code | Date     | pH   | Temp (C) | Ammonia unionised<br>(mg/l) NH3 | Ammonium<br>(mg/l) NH4 | Nitrate (mg l-1) NO3 | Nitrite (mg l-1)<br>NO2 | Phosphate<br>(mg l-1) PO4 | Suspended Solids<br>(mg l-1) TSS |
|----------------------|----------|------|----------|---------------------------------|------------------------|----------------------|-------------------------|---------------------------|----------------------------------|
| TG01                 | 07.01.23 | 7.93 | 8.9      | 0.00112                         | 0.1032                 | 68.665               | 0.1316                  | 0.31                      | 3                                |
| TG10                 | 07.01.23 | 7.75 | 9        | 0.00197                         | 0.2709                 | 67.779               | 0.2303                  | 0.39                      | under range                      |
| TG11                 | 07.01.23 | 7.67 | 8.9      | 0.00179                         | 0.2967                 | 68.222               | 0.2961                  | 0.39                      | under range                      |
| TG01                 | 13.02.23 | 7.82 | 8.2      | 0.00083                         | 0.1032                 | 53.603               | 0.0987                  | 0.37                      | under range                      |
| TG10                 | 13.02.23 | 7.87 | 8.7      | 0.00736                         | 0.7869                 | 38.098               | 0.1316                  | 0.15                      | 20                               |
| TG11                 | 13.02.23 | 7.83 | 8.5      | 0.00315                         | 0.3741                 | 62.906               | 0.1974                  | 0.78                      | 6                                |

Water Quality Monitoring – Tributaries  
Preliminary Results from Samples – March 2023

| Location Code | Date     | pH   | Temp (C) | Ammonia unionised (mg/l) NH3 | Ammonium (mg/l) NH4 | Nitrate (mg l-1) NO3 | Nitrite (mg l-1) NO2 | Phosphate (mg l-1) PO4 | Suspended Solids (mg l-1) TSS |
|---------------|----------|------|----------|------------------------------|---------------------|----------------------|----------------------|------------------------|-------------------------------|
| CA01          | 11.03.23 | 8.03 | 4.5      | 0.00076                      | 0.0774              | 81.512               | 0.0987               | 0.3                    | 45                            |
| CU01          | 11.03.23 | 7.76 | 4.6      | 0.00028                      | 0.0516              | 58.919               | 0.1316               | 0.27                   | 29                            |
| HW01          | 11.03.23 | 7.92 | 4        | 0.00048                      | 0.0645              | 77.968               | 0.0987               | 0.22                   | 26                            |
| KE01          | 11.03.23 | 7.95 | 5.5      | 0.00023                      | 0.0258              | 61.134               | 0.0329               | 0.17                   | 42                            |
| LN01          | 11.03.23 | 7.89 | 4.1      | 0.00108                      | 0.1548              | 59.362               | 0.1645               | 0.37                   | 46                            |
| TU02          | 11.03.23 | 7.84 | 9        | 0.00069                      | 0.0774              | 81.955               | 0.0987               | 0.29                   | 2                             |

**Water Quality Monitoring – Tributaries**  
**Preliminary Results from Samples – April 2023**

| Location Code | Date     | pH   | Temp (C) | Ammonia unionised (mg/l) NH3 | Ammonium (mg/l) NH4 | Nitrate (mg l-1) NO3 | Nitrite (mg l-1) NO2 | Phosphate (mg l-1) PO4 | Suspended Solids (mg l-1) TSS |
|---------------|----------|------|----------|------------------------------|---------------------|----------------------|----------------------|------------------------|-------------------------------|
| CU04          | 01.04.23 | 8.16 | 11.5     | 0.00114                      | 0.0516              | 19.935               | 0.0987               | 0.13                   | 17                            |
| CU11          | 01.04.23 | 7.9  | 9.5      | 0.00082                      | 0.0774              | 37.212               | 0.3619               | >4                     | 14                            |
| CU12 (ditch)  | 01.04.23 | 7.82 | 10.2     | 0.00096                      | 0.1032              | 124.926              | 0.1645               | >4                     | 79                            |
| CU13          | 01.04.23 | 8.04 | 9.4      | 0.00037                      | 0.0258              | not recorded         | 0.1316               | 0.31                   | 31                            |
| LN03          | 01.04.23 | 8.15 | 9.1      | 0.00141                      | 0.0774              | 41.642               | 0.0987               | 0.23                   | 26                            |
| LN04          | 01.04.23 | 8.19 | 9        | 0.00153                      | 0.0774              | not recorded         | 0.0658               | 0.23                   | 28                            |
| LN10          | 01.04.23 | 8    | 8.3      | 0.00094                      | 0.0774              | 101.89               | 0.0658               | 0.2                    | 7                             |



Water Quality Monitoring – Hanna Handheld Equipment  
Preliminary Results from Samples – Mar – April 2023

| Location Code | Date     | pH   | Temp (C) | Ammonia (mg/l)<br>NH3 – N<br>Low Range – HI700 | Ammonia (mg/l) NH3 | Phosphate (mg l-1)<br>PO4<br>Low Range – HI713 | Phosphate (mg l-1)<br>P | Phosphate (mg l-1) PO4<br>High Range<br>HI717 | Phosphate (mg l-1)<br>P |
|---------------|----------|------|----------|--|--------------------|--|-------------------------|---|-------------------------|
| CU01          | 11.03.23 | 7.76 | 4.6      | 0.04   | 0.05               | 0  | 0                       | -   | -                       |
| HW01          | 11.03.23 | 7.92 | 4        | 0.30   | 0.36               | 0.15   | 0.0495                  | -   | -                       |
| CU11          | 01.04.23 | 7.9  | 9.5      | 0.03   | 0.04               | >2.5   | >0.825                  | 9.1   | 3.003                   |
| CU12          | 01.04.23 | 7.82 | 10.2     | 0.08   | 0.10               | -  | -                       | 8.4   | 2.772                   |
| CU13          | 01.04.23 | 8.04 | 9.4      | 0.04   | 0.05               | 0.04   | 0.0132                  | -   | -                       |



Water Quality Testing  
15th September 2022





Water Quality Testing  
10th October 2022





Water Quality Testing  
Jan-Mar 2023





Water Quality Testing  
April 2023

