

**CHEMICAL DATA - Analytes tested for in a lab, 2024 - MVTl, New Ulm****RR1 - Primary Lower Redwood River at Redwood CR17 near Redwood Falls -****STORET CODE - S001-679****2024 Wateryear (Oct 1, 2023 to Sept. 30, 2024)**

| FLOW TYPE   | SAMP | DATE       | TIME  | FLOW                   | LAB SAMPLE | TSS  | TSVS | TKN   | N-NO2+NO3 | P-PO4  | TP    |
|-------------|------|------------|-------|------------------------|------------|------|------|-------|-----------|--------|-------|
|             | TYPE |            |       | (ft <sup>3</sup> /sec) | ID #       | MG/L | MG/L | MG/L  | MG/L      | MG/L   | MG/L  |
| Winter Base | Grab | 1/3/2024   | 13:45 |                        | 37903002   | 7    |      | 0.488 | 6.38      | 0.135  | 0.203 |
| Winter Base | Grab | 2/22/2024  | 13:00 |                        | 41490001   | 2    |      | 0.724 | 3.07      | 0.090  | 0.119 |
| Base        | Grab | 3/18/2024  | 12:05 |                        | 43125002   | 7    |      | 0.754 | 1.82      | 0.036' | 0.069 |
| Storm Event | Grab | 4/1/2024   | 12:00 |                        | 44193002   | 8    |      | 0.685 | 2.71      | 0.020  | 0.071 |
| Storm Event | Grab | 4/5/2024   | 11:35 |                        | 44759002   | 18   |      | 1.09  | 5.06      | 0.048  | 0.128 |
| Storm Event | Grab | 4/11/2024  | 12:40 |                        | 45296002   | 29   |      | 1.01  | 5.31      | 0.058  | 0.136 |
| Storm Event | Grab | 4/17/2024  | 13:05 |                        | 45804002   | 178  |      | 1.89  | 6.59      | 0.067  | 0.326 |
| Storm Event | Grab | 4/18/2024  | 11:45 |                        | 45930002   | 158  |      | 1.52  | 12.70     | 0.070  | 0.312 |
| Storm Event | Grab | 4/19/2024  | 11:10 |                        | 46055002   | 110  |      | 0.794 | 12.23     | 0.059  | 0.216 |
| Storm Event | Grab | 4/22/2024  | 12:15 |                        | 46135002   | 44   |      | 0.837 | 10.38     | 0.067  | 0.132 |
| Storm Event | Grab | 4/29/2024  | 10:35 |                        | 46801002   | 172  |      | 1.14  | 13.35     | 0.103  | 0.300 |
| Storm Event | Dup  | 4/29/2024  | 10:40 |                        | 46801008   | 178  |      | 1.24  | 13.39     | 0.104  | 0.300 |
| Storm Event | Grab | 4/30/2024  | 11:35 |                        | 46924002   | 171  |      | 1.12  | 14.99     | 0.107  | 0.350 |
| Storm Event | Grab | 5/2/2024   | 12:00 |                        | 47261001   | 152  |      | 1.33  | 14.42     | 0.090  | 0.260 |
| Storm Event | Grab | 5/6/2024   | 12:25 |                        | 47524002   | 129  |      | 0.657 | 11.28     | 0.063  | 0.161 |
| Storm Event | Grab | 5/8/2024   | 13:40 |                        | 47948001   | 89   |      | 0.672 | 12.76     | 0.097  | 0.193 |
| Storm Event | Grab | 5/13/2024  | 12:35 |                        | 48291002   | 70   |      | 0.430 | 11.45     | 0.043  | 0.120 |
| Storm Event | Grab | 5/23/2024  | 12:05 |                        | 49488002   | 66   |      | 0.355 | 11.45     | 0.052  | 0.149 |
| Storm Event | Grab | 5/30/2024  | 12:15 |                        | 50035005   | 78   |      | 0.196 | 12.62     | 0.049  | 0.128 |
| Base        | Grab | 6/10/2024  | 12:00 |                        | 51042001   | 60   |      | 0.236 | 11.62     | 0.061  | 0.133 |
| Storm Event | Grab | 6/18/2024  | 12:30 |                        | 52008002   | 212  |      | 2.48  | 12.19     | 0.284  | 0.460 |
| Storm Event | Grab | 6/22/2024  | 11:45 |                        | 52588001   | 153  |      | 1.54  | 12.57     | 0.266  | 0.482 |
| Storm Event | Grab | 6/26/2024  | 12:45 |                        | 53002002   | 54   |      | 1.56  | 6.51      | 0.195  | 0.302 |
| Storm Event | Grab | 6/28/2024  | 10:50 |                        | 53232001   | 36   |      | 1.27  | 5.30      | 0.163  | 0.219 |
| Storm Event | Grab | 7/9/2024   | 16:00 |                        | 24G1522-01 | 98   |      | <0.40 | 8.30      | 0.165  | 0.302 |
| Base        | Grab | 7/29/2024  | 10:40 |                        | 24H0131-05 | 56   |      | 0.970 | 3.90      | 0.157  | 0.240 |
| Base        | Grab | 8/26/2024  | 10:45 |                        | 60979001   | 10   |      | 0.868 | 1.20      | 0.070  | 0.131 |
| Base        | Grab | 9/19/2024  | 12:45 |                        | 64854002   | 47   |      |       | 0.10      | <0.005 | 0.129 |
| Base        | Grab | 10/24/2024 | 12:20 |                        | 68855002   | 22   |      |       | 1.58      | 0.053  | 0.113 |
| Base        | Grab | 11/18/2024 | 12:10 |                        | 71241002   | 7    |      |       | 2.72      | 0.083  | 0.121 |
| Base        | Grab | 12/16/2024 | 13:15 |                        | 73823001   | 6    |      |       | 6.33      | 0.168  | 0.227 |

\_ ' = The reporting limit for this analyte has been raised to account for the reporting limit verification standard. - 2024

**CHEMICAL DATA - Analytes tested for in a lab, 2024 - MVTL, New Ulm****NMRR2 - Redwood River, 0.5 mi North of Marshall on 300th Ave. -****STORET CODE - S001-203****2024 Wateryear (Oct 1, 2023 to Sept. 30, 2024)**

| FLOW TYPE     | SAMP<br>TYPE | DATE       | TIME  | FLOW<br>(ft <sup>3</sup> /sec) | LAB SAMPLE<br>ID # | TSS<br>MG/L | TSVS<br>MG/L | TKN<br>MG/L | N-NO2+NO3<br>MG/L | P-PO4<br>MG/L | TP<br>MG/L |
|---------------|--------------|------------|-------|--------------------------------|--------------------|-------------|--------------|-------------|-------------------|---------------|------------|
| Snowmelt/base | Grab         | 3/6/2024   | 14:45 |                                | 42461001           | 10          |              | 0.866       | 4.43              |               | 0.309      |
| Base          | Grab         | 3/20/2024  | 15:15 |                                | 43554001           | 4           |              | 1.00        | 4.68              |               | 0.497      |
| Storm Event   | Grab         | 4/3/2024   | 12:30 |                                | 44764001           | 24          |              | 1.02        | 4.48              |               | 0.302      |
| Storm Event   | Grab         | 4/9/2024   | 10:25 |                                | 45013002           | 61          |              | 1.11        | 4.89              |               | 0.213      |
| Storm Event   | Grab         | 4/17/2024  | 9:55  |                                | 45804003           | 160         |              | 2.02        | 4.86              |               | 0.322      |
| Storm Event   | Grab         | 4/24/2024  | 11:30 |                                | 46497001           | 20          |              | 0.862       | 5.16              |               | 0.176      |
| Storm Event   | Grab         | 4/29/2024  | 11:30 |                                | 46801003           | 373         |              | 2.74        | 6.64              |               | 0.430      |
| Storm Event   | Grab         | 5/1/2024   | 12:05 |                                | 47251002           | 164         |              | 2.04        | 9.94              |               | 0.280      |
| Storm Event   | Grab         | 5/8/2024   | 10:10 |                                | 47948002           | 131         |              | 1.58        | 7.40              | 0.056         | 0.192      |
| Storm Event   | Grab         | 5/22/2024  | 11:25 |                                | 49341001           | 63          |              | 1.10        | 6.53              |               | 0.148      |
| Base          | Grab         | 6/11/2024  | 12:20 |                                | 51654001           | 31          |              | 1.18        | 5.50              |               | 0.112      |
| Storm Event   | Grab         | 6/18/2024  | 11:00 |                                | 52008003           | 155         |              | 1.79        | 6.38              |               | 0.217      |
| Storm Event   | Grab         | 6/19/2024  | 12:00 |                                | 52267001           | 146         |              | 1.82        | 11.97             |               | 0.234      |
| Storm Event   | Grab         | 6/22/2024  | 12:45 |                                | 52588002           | 781         |              | 4.09        | 5.39              |               | 0.820      |
| Storm Event   | Grab         | 6/24/2024  | 14:15 |                                | 52642001           | 276         |              | 1.95        | 4.77              |               | 0.500      |
| Storm Event   | Grab         | 7/8/2024   | 15:55 |                                | 24G1671-01         | 110         |              | 1.18        | 3.60              |               | 0.293      |
| Base          | Grab         | 7/29/2024  | 12:30 |                                | 24H0131-06         | 62          |              | 0.900       | 1.90              |               | 0.295      |
| Base          | Grab         | 8/28/2024  | 11:00 |                                | 61541002           | 34          |              |             | 1.63              |               | 0.145      |
| Base          | Grab         | 9/18/2024  | 14:10 |                                | 64855001           | 4           |              |             | 7.04              |               | 0.458      |
| Base          | Grab         | 10/16/2024 | 12:10 |                                | 68081001           | 14          |              |             | 9.58              |               | 0.850      |

**CHEMICAL DATA - Analytes tested for in a lab, 2024 - MVTL, New Ulm**

**RRUS - Redwood River at Russell - Non-impacted stream/Western Corn Belt Plains**

**STORET CODE - S000-696**

**2024 Wateryear (Oct 1, 2023 to Sept. 30, 2024)**

| FLOW TYPE     | SAMP | DATE      | TIME  | FLOW                   | LAB SAMPLE | TSS  | TSVS | TKN   | N-NO2+NO3 | P-PO4 | TP    |
|---------------|------|-----------|-------|------------------------|------------|------|------|-------|-----------|-------|-------|
|               | TYPE |           |       | (ft <sup>3</sup> /sec) | ID #       | MG/L | MG/L | MG/L  | MG/L      | MG/L  | MG/L  |
| Snowmelt/base | Grab | 3/6/2024  | 14:00 |                        | 42461002   | 8    |      | 1.05  | 2.44      |       | 0.024 |
| Base          | Grab | 3/20/2024 | 14:35 |                        | 43554002   | 5    |      | 0.817 | 2.55      |       | 0.023 |
| Storm Event   | Grab | 4/3/2024  | 11:50 |                        | 44764002   | 13   |      | 1.23  | 5.16      |       | 0.041 |
| Storm Event   | Grab | 4/9/2024  | 9:45  |                        | 45013003   | 22   |      | 1.26  | 4.63      |       | 0.048 |
| Storm Event   | Grab | 4/17/2024 | 9:15  |                        | 45804004   | 82   |      | 1.43  | 6.81      |       | 0.104 |
| Storm Event   | Grab | 4/24/2024 | 10:45 |                        | 46497002   | 13   |      | 0.919 | 5.05      |       | 0.026 |
| Storm Event   | Grab | 4/29/2024 | 12:15 |                        | 46801004   | 463  |      | 3.33  | 9.65      |       | 0.420 |
| Storm Event   | Grab | 5/1/2024  | 10:45 |                        | 47251003   | 102  |      | 0.686 | 9.86      |       | 0.192 |
| Storm Event   | Grab | 5/8/2024  | 9:25  |                        | 47948003   | 67   |      | 1.67  | 7.93      | 0.019 | 0.102 |
| Storm Event   | Grab | 5/22/2024 | 10:45 |                        | 49341002   | 32   |      | 1.15  | 8.05      |       | 0.051 |
| Base          | Grab | 6/11/2024 | 11:45 |                        | 51654002   | 13   |      | 1.13  | 5.35      |       | 0.038 |
| Storm Event   | Grab | 6/18/2024 | 10:20 |                        | 52008004   | 136  |      | 0.835 | 11.56     |       | 0.226 |
| Storm Event   | Grab | 6/19/2024 | 11:05 |                        | 52267002   | 126  |      | 1.37  | 11.62     |       | 0.225 |