



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2024 TO 12/31/2024

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 2/16/2024

| Parameter                           | MCL <sup>1</sup> | Units <sup>2</sup> | Jan-23 | Feb-23 | Mar-23 | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Quant Limit <sup>3</sup> |
|-------------------------------------|------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| Aggressive Index Number             |                  | Units              | 11     | 12     | 11     | 11     | 11     | 11     | 11     | 12     | 11     | 11     | 12     | -      | N/A                      |
| Alkalinity, Bicarbonate             |                  | mg/L               | 90     | 84     | 65     | 82     | 70     | 93     | 92     | 94     | 96     | 92     | 111    | -      | 0                        |
| Alkalinity, Carbonate               |                  | mg/L               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | -      | 0                        |
| Alkalinity, Hydroxyl                |                  | mg/L               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | -      | 0                        |
| Alkalinity, Phenolphthalein         |                  | mg/L               | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | -      | 0                        |
| Alkalinity, Total                   |                  | mg/L               | 90     | 84     | 65     | 82     | 70     | 93     | 92     | 94     | 96     | 92     | 111    | -      | 0                        |
| Bromide                             |                  | mg/L               | BQL    | 0.01   | BQL    | BQL    | BQL    | 0.01   | BQL    | 0.01   | 0.03   | 0.02   | 0.03   | -      | 0.01                     |
| Carbon Dioxide                      |                  | mg/L               | 7      | 3      | 5      | 7      | 6      | 9      | 7      | 5      | 8      | 6      | 9      | -      | N/A                      |
| Chloride                            | 250 S            | mg/L               | 22.7   | 23.6   | 23.6   | 18.4   | 25.0   | 23.9   | 26.4   | 35.8   | 38.5   | 29.5   | 31.9   | -      | 5.0                      |
| Chlorine, Free                      |                  | mg/L               | 0.1    | 0.1    | 0.1    | 2.8    | 2.6    | 2.8    | 0.3    | 0.3    | 0.3    | 0.1    | 0.2    | -      | 0.0                      |
| Chlorine, Total                     |                  | mg/L               | 3.0    | 3.0    | 2.9    | 2.9    | 2.8    | 3.1    | 3.1    | 2.7    | 2.3    | 3.3    | 3.6    | -      | 0.0                      |
| Color                               | 15 S             | Units              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | -      | 0                        |
| Dissolved Oxygen                    |                  | mg/L               | 13.7   | 15.9   | 13.3   | 15.0   | 12.5   | 11.1   | 12.8   | 14.4   | 12.7   | 14.3   | 13.4   | -      | 0.0                      |
| Fluoride                            | 4.0 P / 2.0 S    | mg/L               | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.6    | 0.6    | 0.2                      |
| Hardness, Calcium                   |                  | mg/L               | 96     | 92     | 68     | 87     | 68     | 92     | 90     | 94     | 99     | 106    | 127    | -      | 10                       |
| Hardness, Total                     |                  | mg/L               | 124    | 125    | 91     | 120    | 92     | 134    | 125    | 138    | 150    | 151    | 182    | -      | 10                       |
| Methylene Blue Activated Substances | 0.5 S            | mg/L               | -      | -      | -      | -      | -      | -      | BQL    | -      | -      | -      | -      | -      | 0.05                     |
| N, Ammonia (Ammonia as N)           |                  | mg/L               | 0.82   | 0.80   | 0.80   | BQL    | BQL    | BQL    | 0.88   | 0.72   | 0.82   | 0.82   | 0.85   | -      | 0.20                     |
| N, Nitrate (Nitrate as N)           | 10 P             | mg/L               | 1.88   | 1.54   | 1.14   | 0.77   | 0.85   | 0.42   | 0.45   | 0.26   | 0.24   | 0.37   | 0.47   | -      | 0.20                     |
| N, Nitrite (Nitrite as N)           | 1 P              | mg/L               | 0.02   | 0.02   | 0.02   | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | 0.01   | BQL    | -      | 0.01                     |
| pH                                  | 6.5 - 8.5 S      | Units              | 7.4    | 7.8    | 7.4    | 7.4    | 7.4    | 7.3    | 7.4    | 7.6    | 7.4    | 7.5    | 7.4    | -      | N/A                      |
| Phosphate as Phosphorous            |                  | mg/L               | 0.49   | 0.40   | 0.45   | 0.45   | 0.43   | 0.39   | 0.45   | 0.41   | 0.43   | 0.39   | 0.35   | -      | 0.10                     |
| Orthophosphate as PO <sub>4</sub>   |                  | mg/L               | 1.49   | 1.23   | 1.37   | 1.36   | 1.32   | 1.18   | 1.37   | 1.26   | 1.32   | 1.20   | 1.08   | -      | 0.31                     |
| Solids, Total                       |                  | mg/L               | 190    | 196    | 162    | 183    | 139    | 190    | 186    | 235    | 285    | 226    | 263    | -      | 1                        |
| Solids, Total Dissolved             | 500 S            | mg/L               | 174    | 158    | 144    | 160    | 142    | 202    | 184    | 208    | 232    | 228    | 286    | -      | 1                        |
| Solids, Total Suspended             |                  | mg/L               | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | -      | 1                        |
| Specific Conductivity               |                  | µmhos/cm           | 333    | 330    | 261    | 300    | 265    | 350    | 336    | 396    | 435    | 389    | 457    | -      | 0                        |
| Sulfate                             | 250 S            | mg/L               | 31.5   | 36.2   | 20.0   | 33.0   | 17.0   | 42.4   | 36.3   | 44.4   | 56.0   | 52.6   | 67.9   | -      | 5.0                      |
| Taste                               |                  | Units              | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | -      | 1                        |
| Temperature                         |                  | °C                 | 10.1   | 8.5    | 11.5   | 16.0   | 17.5   | 22.6   | 26.0   | 26.8   | 27.1   | 20.5   | 16.0   | -      | N/A                      |
| Threshold Odor Number               | 3 S              | Units              | 1      | 6      | 4      | 8      | 10     | 8      | 6      | 6      | 1      | 6      | 1      | -      | 0                        |
| Total Organic Carbon                |                  | mg/L               | 1.3    | 1.1    | 1.7    | 1.3    | 1.4    | 1.4    | 1.5    | 1.8    | 1.6    | 2.4    | 1.3    | -      | 0.5                      |
| Turbidity                           | ≤ 5 P            | NTU                | 0.10   | 0.10   | 0.10   | 0.20   | 0.10   | 0.15   | 0.15   | 0.10   | 0.15   | 0.10   | 0.10   | -      | 0.05                     |

BQL = The lowest quantitation limit of all analyses for the particular parameter: Below Quantitation Limit

<sup>1</sup>Environmental Protection Agency/Virginia Department of Health established levels for drinking water at points of entry to the water distribution system

P = Primary - enforceable, S = Secondary - non-enforceable, AL = Action Level on specific taps, MCL = Maximum Contaminant Level

<sup>2</sup>mg/L = milligrams per liter, µg/L = micrograms per liter, µmhos/cm = micromhos per centimeter, NTU = Nephelometric Turbidity Units

<sup>3</sup>Quant Limit = Quantitation Limit : lowest level of measurement, N/A = not applicable

- Not sampled

\* Analysis pending



Water Quality Laboratory

Metal Analyses

Period of 01/01/2024 TO 12/31/2024

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 2/16/2024

| Parameter | MCL <sup>1</sup> | Units <sup>2</sup> | Jan-23 | Feb-23 | Mar-23 | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Quant Limit <sup>3</sup> |
|-----------|------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| Aluminum  | 50 - 200 S       | µg/L               | BQL    | -      | -      | 38.1   | -      | -      | 88.4   | -      | -      | 44.6   | -      | -      | 25.0                     |
| Antimony  | 6 P              | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 2.0                      |
| Arsenic   | 10 P             | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 2.0                      |
| Barium    | 2000 P           | µg/L               | 28.7   | -      | -      | 38.1   | -      | -      | 43.8   | -      | -      | 36.8   | -      | -      | 25.0                     |
| Beryllium | 4 P              | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 2.0                      |
| Cadmium   | 5 P              | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 2.0                      |
| Calcium   |                  | mg/L               | 37.7   | -      | -      | 35.6   | -      | -      | 35.6   | -      | -      | 37.0   | -      | -      | 1.0                      |
| Chromium  | 100 P            | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 5.0                      |
| Copper    | 1300 AL          | µg/L               | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | -      | 25.0                     |
| Iron      | 300 S            | µg/L               | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | -      | 25.0                     |
| Lead      | 15 AL            | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 2.0                      |
| Magnesium |                  | mg/L               | 7.8    | -      | -      | 8.3    | -      | -      | 9.4    | -      | -      | 10.6   | -      | -      | 1.0                      |
| Manganese | 50 S             | µg/L               | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | BQL    | -      | 25.0                     |
| Mercury   | 2 P              | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 0.50                     |
| Nickel    | 100 P            | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 5.0                      |
| Potassium |                  | mg/L               | 2.1    | -      | -      | 1.9    | -      | -      | 2.6    | -      | -      | 3.2    | -      | -      | 1.0                      |
| Selenium  | 50 P             | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 5.0                      |
| Silicon   |                  | mg/L               | 3.0    | -      | -      | BQL    | -      | -      | 3.9    | -      | -      | 1.3    | -      | -      | 1.0                      |
| Silver    | 100 S            | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 5.0                      |
| Sodium    |                  | mg/L               | 12.7   | 13.6   | 12.8   | 11.6   | 13.9   | 14.6   | 15.8   | 22.2   | 24.9   | 18.3   | 20.4   | -      | 1.0                      |
| Thallium  | 2 P              | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 2.0                      |
| Zinc      | 5000 S           | µg/L               | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | BQL    | -      | -      | 25.0                     |

BQL = The lowest quantitation limit of all analyses for the particular parameter: Below Quantitation Limit

<sup>1</sup>Environmental Protection Agency/Virginia Department of Health established levels for drinking water at points of entry to the water distribution system

P = Primary - enforceable, S = Secondary - non-enforceable, AL = Action Level on specific taps, MCL = Maximum Contaminant Level

<sup>2</sup>mg/L = milligrams per liter, µg/L = micrograms per liter

<sup>3</sup>Quant Limit = Quantitation Limit : lowest level of measurement

- Not sampled

\* Analysis pending