

Table 3. Summary of measured constituents and properties for Arkansas River near Wellsville, Co. (ARKWELCO), station 07093700

[--, no data or not applicable; L, low; M, medium; H, high; LRL, Lab Reporting Level; \*, value is censored, see Definition of Terms for censored value replacement rules; NC, percentiles and medians not calculated or Level of Concern not computed; \*\*, Geometric mean; see Definition of Terms for explanation of standards, exceedances, and concern levels for dissolved oxygen, *Escherichia coli*, pH, and water temperature]

| Constituent or property  | Period (water years) | Number of samples | Number of censored values | Minimum | Median | Maximum | Date of Maximum | 15th percentile | 85th percentile | Chronic standard or standard | Number of exceedances of chronic standard or standard | Acute standard or standard | Number of exceedances of acute standard or standard | LRL  | Level of concern |
|--|----------------------|-------------------|---------------------------|---------|--------|---------|-----------------|-----------------|-----------------|------------------------------|---|----------------------------|---|------|------------------|
| Instantaneous discharge, in cubic feet per second                | 1990-2017            | 193               | 0                         | 192     | 416    | 4,170   | 06/03/14        | 270             | 1,147           | --                           | --  | .                          | --  | --   | --               |
| Instantaneous discharge, in cubic feet per second                | 2018-2019            | 8                 | 0                         | 239     | 619    | 1,480   | 05/15/18        | 260             | 1,477           | --                           | --  | .                          | --  | --   | --               |
| Dissolved oxygen, in milligrams per liter                        | 1990-1993            | 26                | 0                         | 6.8     | 8.5    | 11.2    | 12/18/91        | 7.2             | 10.7            | 6.0                          | 0   | --                         | --  | --   | L                |
| pH, in standard units  | 1990-1993            | 27                | 0                         | 7.7     | 8.3    | 8.9     | 03/24/92        | 7.9             | 8.7             | 6.5-9.0                      | 0   | --                         | --  | --   | L                |
| pH, laboratory, in standard units                                | 1990-1993            | 26                | 0                         | 7.5     | 8.1    | 8.6     | 03/24/92        | 7.8             | 8.3             | 6.5-9.0                      | 0   | --                         | --  | --   | L                |
| Specific conductance, laboratory, in microsiemens per centimeter | 1990-2013            | 30                | 0                         | 99.0    | 179    | 275     | 10/23/91        | 119             | 240             | --                           | --  | .                          | --  | 5.0  | --               |
| Specific conductance, in microsiemens per centimeter             | 1990-2017            | 279               | 0                         | 69.5    | 181    | 273     | 09/26/90        | 128             | 230             | --                           | --  | .                          | --  | --   | --               |
| Specific conductance, in microsiemens per centimeter             | 2018-2019            | 8                 | 0                         | 111     | 171    | 240     | 02/08/18        | 112             | 240             | --                           | --  | .                          | --  | --   | --               |
| Temperature, water, degrees Celsius                              | 1990-2017            | 191               | 0                         | 0.0     | 10.7   | 23.0    | 07/16/02        | 1.5             | 17.0            | --                           | --  | --                         | --  | --   | --               |
| Temperature, water, degrees Celsius                              | 2018-2019            | 8                 | 0                         | 0.0     | 8.9    | 18.3    | 08/07/18        | 0.6             | 17.4            | --                           | --  | --                         | --  | --   | --               |
| Temperature, water, degrees Celsius April-October                | 1990-2017            | 114               | 0                         | 2.5     | 13.5   | 23.0    | 07/16/02        | 10.5            | 18.0            | 24.8                         | 0   | --                         | --  | --   | L                |
| Temperature, water, degrees Celsius April-October                | 2018-2019            | 6                 | 0                         | 5.3     | 10.7   | 18.3    | 08/07/18        | 5.4             | 18.2            | 24.8                         | 0   | --                         | --  | --   | L                |
| Temperature, water, degrees Celsius November-March               | 1991-2017            | 77                | 0                         | 0.0     | 2.7    | 13.1    | 03/31/11        | 0.0             | 6.9             | 13.0                         | 1   | --                         | --  | --   | L                |
| Temperature, water, degrees Celsius November-March               | 2018-2019            | 2                 | 0                         | 0.0     | NC     | 1.7     | 02/08/18        | NC              | NC              | 13.0                         | 0   | --                         | --  | --   | NC               |
| Dissolved solids dried at 180 degrees C, in milligrams per liter | 1990-2017            | 85                | 0                         | 48.1    | 110    | 163     | 10/23/91        | 70.3            | 140             | --                           | --  | .                          | --  | 20.0 | --               |
| Dissolved solids dried at 180 degrees C, in milligrams per liter | 2018-2019            | 8                 | 0                         | 70.9    | 98.1   | 140     | 02/08/18        | 71.8            | 138             | --                           | --  | .                          | --  | 20.0 | --               |
| Dissolved solids, sum of constituents, in milligrams per liter   | 1990-1991            | 2                 | 0                         | 114     | NC     | 123     | 08/29/90        | NC              | NC              | --                           | --  | .                          | --  | --   | --               |
| Hardness, in milligrams per liter                                | 1990-1993            | 26                | 0                         | 42.8    | 73.3   | 126     | 10/23/91        | 46.8            | 108             | --                           | --  | .                          | --  | --   | --               |
| Calcium, in milligrams per liter                                 | 1990-1993            | 26                | 0                         | 13.0    | 22.0   | 38.0    | 10/23/91        | 14.1            | 31.0            | --                           | --  | .                          | --  | --   | --               |
| Magnesium, in milligrams per liter                               | 1990-1993            | 26                | 0                         | 2.5     | 4.6    | 7.5     | 04/19/90        | 2.8             | 6.8             | --                           | --  | .                          | --  | --   | --               |
| Potassium, in milligrams per liter                               | 1990-1991            | 2                 | 0                         | 1.4     | NC     | 1.5     | 08/29/90        | NC              | NC              | --                           | --  | .                          | --  | --   | --               |
| Sodium, in milligrams per liter                                  | 1990-1993            | 26                | 0                         | 2.3     | 5.1    | 9.1     | 10/23/91        | 2.9             | 7.6             | --                           | --  | .                          | --  | --   | --               |
| Acid neutralizing capacity, in milligrams per liter              | 1990-1993            | 26                | 0                         | 33.0    | 66.0   | 121     | 10/23/91        | 38.3            | 93.5            | --                           | --  | .                          | --  | --   | --               |
| Chloride, in milligrams per liter                                | 1990-1993            | 26                | 0                         | 0.20    | 1.5    | 4.5     | 11/01/90        | 0.50            | 2.9             | 250                          | 0   | .                          | --  | --   | L                |
| Fluoride, in milligrams per liter                                | 1991-1992            | 9                 | 0                         | 0.20    | 0.40   | 0.60    | 11/01/90        | 0.20            | 0.60            | --                           | --  | .                          | --  | --   | --               |
| Sulfate, in milligrams per liter                                 | 1990-1993            | 26                | 0                         | 10.0    | 17.0   | 26.0    | 04/19/90        | 13.0            | 22.0            | 250                          | 0   | .                          | --  | --   | L                |
| Ammonia nitrogen, in milligrams per liter                        | 1993                 | 2                 | 0                         | 0.025   | NC     | 0.049   | 01/12/93        | NC              | NC              | 1.41                         | 0   | 2.87                       | 0   | --   | NC               |
| Ammonia, unfiltered, in milligrams per liter                     | 1990-1993            | 24                | 1                         | 0 *     | 0.027  | 0.056   | 08/25/92        | 0.015           | 0.033           | --                           | --  | --                         | --  | --   | --               |
| Nitrite plus nitrate, in milligrams per liter                    | 1993                 | 2                 | 0                         | 0.055   | NC     | 0.222   | 01/12/93        | NC              | NC              | --                           | --  | 10.0                       | 0   | --   | --               |
| Nitrate plus nitrite, unfiltered, in milligrams per liter        | 1990-1993            | 24                | 0                         | 0.050   | 0.094  | 0.201   | 10/28/92        | 0.058           | 0.189           | --                           | --  | --                         | --  | --   | --               |
| Nitrite, unfiltered, in milligrams per liter                     | 1991                 | 1                 | 1                         | 0 *     | NC     | 0 *     | 11/01/90        | NC              | NC              | --                           | --  | --                         | --  | --   | --               |
| Orthophosphate, unfiltered, in milligrams per liter              | 1991                 | 1                 | 1                         | 0 *     | NC     | 0 *     | 11/01/90        | NC              | NC              | --                           | --  | --                         | --  | --   | --               |
| Phosphorus, unfiltered, in milligrams per liter                  | 1990-1993            | 25                | 0                         | 0.006   | 0.023  | 0.035   | 10/23/91        | 0.013           | 0.032           | --                           | --  | --                         | --  | --   | --               |
| Fecal coliform, M-FC MF, in colonies per 100 milliliters         | 1990-1993            | 23                | 3                         | 0 *     | 6      | 468     | 08/25/92        | 1               | 43              | --                           | --  | --                         | --  | --   | --               |
| Fecal streptococci, in colonies per 100 milliliters              | 1990-1993            | 23                | 0                         | 4       | 73     | 556     | 08/25/92        | 10              | 203             | --                           | --  | --                         | --  | --   | --               |
| Total coliform, M-Endo MF, in colonies per 100 milliliters       | 1990-1993            | 17                | 2                         | 0 *     | 51.0   | 333     | 07/17/91        | 0.700           | 182             | --                           | --  | --                         | --  | --   | --               |

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| Constituent or property                        | Period (water years) | Number of samples | Number of censored values | Minimum | Median | Maximum | Date of Maximum | 15th percentile | 85th percentile | Chronic standard or standard | Number of exceedances of chronic standard or standard | Acute standard or standard | Number of exceedances of acute standard or standard | LRL | Level of concern |
|--|----------------------|-------------------|---------------------------|---------|--------|---------|-----------------|-----------------|-----------------|------------------------------|---|----------------------------|---|-----|------------------|
| Cadmium, in micrograms per liter               | 1990-1993            | 27                | 8                         | 0 *     | 0.10   | 0.60    | 12/18/91        | 0 *             | 0.20            | 0.57                         | 2   | 1.4                        | 0   | --  | L                |
| Cadmium, unfiltered, in micrograms per liter   | 1990-1993            | 27                | 21                        | 0 *     | 0 *    | 9.0     | 06/06/90        | 0 *             | 2.0             | --                           | --  | .                          | --  | --  | --               |
| Chromium, in micrograms per liter              | 1990-1992            | 5                 | 5                         | 0 *     | NC     | 0 *     | 08/29/90        | NC              | NC              | 58.1                         | 0   | .                          | --  | --  | NC               |
| Chromium, unfiltered, in micrograms per liter  | 1990-1992            | 5                 | 4                         | 0 *     | NC     | 1.0     | 08/12/92        | NC              | NC              | --                           | --  | .                          | --  | --  | --               |
| Copper, in micrograms per liter                | 1990-1993            | 27                | 1                         | 0 *     | 2.0    | 39.0    | 06/25/92        | 1.0             | 4.6             | 6.9                          | 3   | 10.1                       | 2   | --  | M                |
| Copper, unfiltered, in micrograms per liter    | 1990-1993            | 26                | 0                         | 1.0     | 4.0    | 61.0    | 06/25/92        | 2.0             | 18.5            | --                           | --  | .                          | --  | --  | --               |
| Iron, in micrograms per liter                  | 1990-1993            | 27                | 0                         | 18.0    | 34.0   | 70.0    | 06/12/91        | 23.0            | 54.8            | 300                          | 0   | .                          | --  | --  | L                |
| Iron, unfiltered, in micrograms per liter      | 1990-1993            | 27                | 0                         | 90.0    | 220    | 8,000   | 06/06/90        | 130             | 2,380           | 1,000                        | 7   | .                          | --  | --  | L                |
| Lead, in micrograms per liter                  | 1990-1993            | 27                | 18                        | 0 *     | 0 *    | 2.5     | 06/12/91        | 0 *             | 0.98            | 1.8                          | 1   | 46.6                       | 0   | --  | M                |
| Lead, unfiltered, in micrograms per liter      | 1990-1993            | 27                | 2                         | 0 *     | 4.0    | 92.0    | 06/06/90        | 1.0             | 34.8            | --                           | --  | .                          | --  | --  | --               |
| Manganese, in micrograms per liter             | 1990-1993            | 27                | 0                         | 7.0     | 12.0   | 39.0    | 05/23/90        | 9.0             | 23.0            | 50.0                         | 0   | .                          | --  | --  | L                |
| Manganese, unfiltered, in micrograms per liter | 1990-1993            | 27                | 1                         | 0 *     | 40.0   | 610     | 06/06/90        | 20.0            | 246             | --                           | --  | .                          | --  | --  | --               |
| Mercury, in micrograms per liter               | 1990-1992            | 5                 | 4                         | 0 *     | NC     | 0.30    | 06/25/92        | NC              | NC              | --                           | 5   | .                          | --  | --  | --               |
| Mercury, unfiltered, in micrograms per liter   | 1990-1992            | 5                 | 5                         | 0 *     | NC     | 0 *     | 08/29/90        | NC              | NC              | 0.010                        | 0   | .                          | --  | --  | NC               |
| Nickel, in micrograms per liter                | 1990-1992            | 5                 | 5                         | 0 *     | NC     | 0 *     | 08/29/90        | NC              | NC              | 40.4                         | 0   | 364                        | 0   | --  | NC               |
| Nickel, unfiltered, in micrograms per liter    | 1990-1992            | 5                 | 3                         | 0 *     | NC     | 2.0     | 06/19/91        | NC              | NC              | 100                          | 0   | .                          | --  | --  | NC               |
| Silver, in micrograms per liter                | 1990-1992            | 5                 | 5                         | 0 *     | NC     | 0 *     | 08/29/90        | NC              | NC              | 0.045                        | 0   | 1.2                        | 0   | --  | NC               |
| Silver, unfiltered, in micrograms per liter    | 1990-1992            | 5                 | 5                         | 0 *     | NC     | 0 *     | 08/29/90        | NC              | NC              | --                           | --  | .                          | --  | --  | --               |
| Zinc, in micrograms per liter                  | 1990-1993            | 27                | 0                         | 4.0     | 31.0   | 73.0    | 04/25/91        | 16.4            | 52.0            | 92.4                         | 0   | 122                        | 0   | --  | M                |
| Zinc, unfiltered, in micrograms per liter      | 1990-1993            | 27                | 0                         | 20.0    | 60.0   | 800     | 05/23/90        | 30.0            | 226             | --                           | --  | .                          | --  | --  | --               |
| Arsenic, in micrograms per liter               | 1990-1992            | 5                 | 5                         | 0 *     | NC     | 0 *     | 08/29/90        | NC              | NC              | --                           | --  | 340                        | 0   | --  | --               |
| Arsenic, unfiltered in micrograms per liter    | 1990-1992            | 5                 | 5                         | 0 *     | NC     | 0 *     | 08/29/90        | NC              | NC              | 0.020                        | 0   | .                          | --  | --  | NC               |
| Selenium, in micrograms per liter              | 1990-1992            | 5                 | 5                         | 0 *     | NC     | 0 *     | 08/29/90        | NC              | NC              | 4.6                          | 0   | 18.4                       | 0   | --  | NC               |
| Selenium, unfiltered, in micrograms per liter  | 1990-1992            | 5                 | 5                         | 0 *     | NC     | 0 *     | 08/29/90        | NC              | NC              | --                           | --  | .                          | --  | --  | --               |
| Uranium (natural), in micrograms per liter     | 1990-1992            | 8                 | 1                         | 0 *     | 2.3    | 6.9     | 09/03/91        | 0.59            | 5.8             | 30.0                         | 0   | .                          | --  | --  | L                |
| Suspended sediment, in milligrams per liter    | 1990-1993            | 25                | 0                         | 3       | 6      | 498     | 06/06/90        | 3               | 75              | --                           | --  | --                         | --  | --  | --               |