



| <b>2016 Analytical Results Summary for Pueblo's Raw Water Arkansas River Intake</b> |              |                           |                                       |                                   |
|---|--------------|---------------------------|---------------------------------------|-----------------------------------|
| <b>Parameter</b>  | <b>Units</b> | <b>Range of Detection</b> | <b>Pueblo Raw Water Average Level</b> | <b>Number of Samples Analyzed</b> |
| <b>Clarity</b>  |              |                           |                                       |                                   |
| Turbidity   | NTU          | 0.91 - 79.6               | 4.56                                  | 251                               |
| <b>Microbiological</b>  |              |                           |                                       |                                   |
| Total Coliform Bacteria   | MPN/100 mL   | 56 - 17329                | 1863.3                                | 198                               |
| E. Coli Bacteria  | MPN/100 mL   | <1 - 214.2                | 24.1                                  | 198                               |
| <b>Inorganic Chemicals</b>  |              |                           |                                       |                                   |
| <b>Trace Metals</b>   |              |                           |                                       |                                   |
| Aluminum  | µg/L         | 18.6 - 84.7               | 38.7                                  | 9                                 |
| Antimony  | µg/L         | <1.00                     | <1.00                                 | 10                                |
| Arsenic   | µg/L         | <1.00 - 1.43              | <1.00                                 | 10                                |
| Barium  | µg/L         | 42.9 - 60.9               | 53.4                                  | 10                                |
| Beryllium   | µg/L         | <1.00                     | <1.00                                 | 9                                 |
| Cadmium   | µg/L         | <1.00 - 1.82              | <1.00                                 | 10                                |
| Calcium   | mg/L         | 37.3 - 54.8               | 47.9                                  | 10                                |
| Chromium  | µg/L         | <1.00 - 7.85              | 2.29                                  | 10                                |
| Cobalt  | µg/L         | <1.00                     | <1.00                                 | 10                                |
| Copper  | µg/L         | 1.10 - 3.08               | 1.53                                  | 10                                |
| Iron  | mg/L         | <0.10                     | <0.10                                 | 2                                 |
| Lead  | µg/L         | <1.00                     | <1.00                                 | 10                                |
| Magnesium   | mg/L         | 7.03 - 14.6               | 11.7                                  | 10                                |
| Manganese   | µg/L         | 19.8 - 131                | 50.1                                  | 10                                |
| Mercury   | µg/L         | <0.50                     | <0.50                                 | 10                                |
| Molybdenum  | µg/L         | 2.91 - 4.97               | 4.10                                  | 10                                |
| Nickel  | µg/L         | 2.63 - 3.84               | 3.23                                  | 10                                |
| Potassium   | mg/L         | 1.47 - 2.43               | 2.12                                  | 10                                |
| Selenium  | µg/L         | 2.47 - 5.28               | 4.24                                  | 10                                |
| Silver  | µg/L         | <1.00                     | <1.00                                 | 10                                |
| Sodium  | mg/L         | 8.85 - 22.3               | 17.0                                  | 10                                |
| Thallium  | µg/L         | <1.00                     | <1.00                                 | 10                                |
| Vanadium  | µg/L         | <1.00 - 3.42              | 1.27                                  | 10                                |
| Zinc  | µg/L         | 5.11 - 22.5               | 8.86                                  | 10                                |



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|---|--------------|---------------------------|---------------------------------------|-----------------------------------|
| <b>Parameters (Cont'd)</b>  | <b>Units</b> | <b>Range of Detection</b> | <b>Pueblo Raw Water Average Level</b> | <b>Number of Samples Analyzed</b> |
| <b>Additional Parameters</b>  |              |                           |                                       |                                   |
| Alkalinity (as CaCO <sub>3</sub> )  | mg/L         | 86 - 126                  | 114                                   | 52                                |
| Ammonia (as Nitrogen)   | mg/L         | <0.01 - 0.07              | 0.02                                  | 104                               |
| Calcium Hardness (as CaCO <sub>3</sub> )  | mg/L         | 103 - 176                 | 143                                   | 52                                |
| Chloride  | mg/L         | 4.87 - 10.8               | 8.42                                  | 39                                |
| Conductivity  | µmho/cm      | 298 - 532                 | 456                                   | 251                               |
| Fluoride  | mg/L         | 0.37 - 0.54               | 0.46                                  | 360                               |
| Total Hardness (as CaCO <sub>3</sub> )  | mg/L         | 124 - 251                 | 187                                   | 52                                |
| pH  | units        | 7.62 - 8.32               | 8.02                                  | 251                               |
| Total Dissolved Solids  | mg/L         | 195 - 415                 | 309                                   | 52                                |
| Sulfate   | mg/L         | 64 - 129                  | 110                                   | 47                                |

Listed above are regulated and unregulated contaminants detected in the raw water in 2016.

**Terms and Definitions Used in the Above Data Table**

**Turbidity** - Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our plant's filtration system.

**NTU** - Nephelometric Turbidity Unit - A unit of measurement of turbidity in the water.

**MPN/100 mL** - Most Probable Number per 100 milliliter - The most probable number of bacterial colonies per 100 milliliters of a water sample.

**ND** - Not Detected

**µg/L** - microgram per liter or one part per billion

**mg/L** - milligram per liter or one part per million

**µmho/cm** - a unit of measurement of the conductivity of the water

**<** - Less Than

Please contact the Board of Water Works Water Quality Laboratory for any additional information regarding water quality at (719)584-0467. Hours are 8:00 am - 4:30 pm Monday through Friday.