

UNIT WELL #17

Drilled in 1966, Well 17 has a pumping capacity of 2,290 gallons per minute; however, the pump typically delivers 1,350 gallons per minute through the use of a variable frequency drive. The well usually operates seasonally from May to October and primarily serves the Downtown and Capitol areas between Blair Street and Bedford Street. During 2025, Well 17 pumped 376 million gallons of water compared to its 5-year average of 322 million gallons annually.

Unless otherwise noted, data contained in this report, which is updated annually, are from 2025.

Bacteria

In 2025, four samples were collected from Well 17 and tested for coliform bacteria, an indicator group of bacteria used to determine drinking water safety. Each sample was collected and tested prior to any disinfection. None of the samples had coliform bacteria present. The Water Utility chlorinates drinking water to protect against bacteria and viruses that can be present in groundwater and to provide protection as the water travels through the water mains and premise plumbing.

Hardness and Other Minerals

Like all groundwater, water from Well 17 contains calcium and magnesium that contributes to its hardness (320 mg/L [ppm] or 19 grains per gallon). Other naturally occurring substances that are present in water from Well 17 can be found in the [Inorganics Table](#).

Iron and Manganese

Water from Well 17 contains low levels of iron and an intermediate amount of manganese. At elevated levels these minerals can discolor the water. Water containing iron or manganese above the EPA [secondary standards](#), 0.3 mg/L and 50 µg/L, respectively, may cause staining of laundry or plumbing fixtures.

Chromium

Low levels of naturally occurring chromium, including hexavalent chromium, have been found at Well 17. The level is well below the drinking water standard of 100 µg/L for total chromium. More information is found on the [chromium](#) page.

Lead

Madison's groundwater supply does not contain significant amounts of naturally occurring lead.

Radionuclides

In 2020, water from Well 17 was tested for radium-226, radium-228, and other gross measures of radiation in water. Combined radium (226+228) measured 1.7 picocuries per liter (pCi/L) – well below the maximum contaminant level (MCL) of 5 pCi/L.

Naturally occurring, radioactive elements are found in rock, soil, water, and air. They derive from the creation of our planet and enter our bodies when we drink water, breathe air, and eat foods that contain them. Everyone is exposed to some level of radiation in everyday life. For example, uranium and thorium are found in rock and soil. In time, they decay to other elements including radium, which later decays to radon gas. Radon is the largest contributor to our daily exposure of radiation from the natural world. More information is available from the Agency for Toxic Substances and Disease Registry ([ATSDR](https://www.atSDR.gov)).

See [ATSDR](https://www.atSDR.gov) for more information on radon.

Human-made Contaminants

Madison Water Utility annually tests all of its municipal wells for human-made contaminants that may be present in groundwater. Four disinfection by-products (DBP) were found at Well 17 in 2025. DBPs form when chlorine interacts with impurities in groundwater. Chlorine is added to disinfect the water and guard against bacterial growth in water mains.

The [Volatile Organic Compounds](#) table lists the substances that were tested, the results, and how detected levels compare with the maximum contaminant levels (MCL) established by the EPA.

Periodic testing found a trace amount of [1,4-dioxane](#) (0.1 µg/L) at Well 17 in 2015 but none was detected in 2018, 2021, or 2024. An MCL has not been established for this chemical.

Per- and Polyfluoroalkyl Substances (PFAS)

No [PFAS](#) were found at Well 17 in 2025. In April 2024, the US Environmental Protection Agency (EPA) published final MCLs for six PFAS. Our website, madisonwater.org, has more detailed information on PFAS in drinking water and previous PFAS tests results for this well.

Additional Information

Information on routine [water quality monitoring](#) activities, including current test results and links to additional resources, is available at madisonwater.org. In addition, you can sign-up to receive periodic updates on Madison drinking water quality or the water main flushing program through the [City of Madison](#) website.

If you have questions about the information in this report or on our website, our staff would be happy to answer them. Please call the Water Quality line at 266-4654 weekdays from 7:45 a.m. to 4:00 p.m.

Click [here](#) to view water quality reports for other Madison municipal wells.