

UNIT WELL #11

Drilled in 1956, Unit Well 11 has a pumping capacity of 2,090 gallons per minute. It operates year-round and serves Madison's East side including the Emerson East, Eken Park, Marquette, Schenk-Atwood-Starkweather-Yahara, Hawthorne, and Worthington Park neighborhoods and homes in Burke Heights, Hiestand, Rolling Meadows, and Eastmorland. In 2025, the well delivered 515 million gallons of water compared to its 5-year average of 549 million gallons annually.

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

Bacteria

In 2025, a total of four samples were collected from Well 11 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 were found to have coliform bacteria present. The Water Utility chlorinates drinking water to protect against bacteria and viruses that can be present in groundwater and to provide additional protection as the water travels through the water mains and premise plumbing.

Hardness and Other Minerals

Like all groundwater, water from Unit Well 11 contains calcium and magnesium that contribute to its hardness (440 mg/L [ppm] or 26 grains per gallon). Other naturally occurring substances that are present in water from Well 11 can be found in the [Inorganics Table](#).

Iron and Manganese

Water from Well 11 contains low levels of iron and manganese. Both minerals are well below the US EPA [secondary standards](#), which are 0.3 mg/L for iron and 50 µg/L for manganese.

Chromium

Low levels of naturally occurring chromium, including hexavalent chromium, have been found at Well 11. The level is well below the drinking water standard of 100 µg/L for total chromium. More information can be found on the [chromium](#) page.

Sodium

The level of [sodium](#) in Well 11 water exceeds the EPA guideline which recommends drinking water not to exceed 20 mg/L sodium; in 2025, sodium measured 26 mg/L. These guidelines are intended for higher risk populations including some individuals with pre-existing heart conditions or those on "no salt" diets. See the WI Department of Health [website](#) for more information. Road salt likely contributes to elevated sodium levels at some Madison wells.

Lead

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

Radionuclides

In 2020, water from Well 11 was tested for radium-226, radium-228, and other gross measures of radiation in water. Combined radium (226+228) measured 1.3 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 its municipal wells for human-made contaminants that may be present in groundwater. In 2025, quarterly samples were collected at Well 11 due to the routine and on-going detections of [tetrachloroethylene](#), [trichloroethylene](#), [cis 1,2-dichloroethylene](#), and trichlorofluoromethane. A small amount of one disinfection by-product (DBP) was also found occasionally in water pumped from Well 11. Periodic testing for [synthetic organic chemicals](#) found trace levels of one pesticide – [atrazine](#) – for the first time in 2023.

Finally, annual testing showed the continued presence of a small amount (0.4 µg/L) of [1,4-dioxane](#); an MCL has yet to be established. The [Volatile Organic Compounds](#) table lists the substances that were tested, the results, and how the detected levels compare with the maximum contaminant levels (MCL) established by the EPA.

Per- and Polyfluoroalkyl Substances (PFAS)

Two [PFAS](#) [PFBA & PFHxS] were detected at Well 11 in 2025. The estimated PFAS level was **7.7 ng/L or parts per trillion (ppt)**. 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 test 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](https://www.cityofmadison.com) 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.