SENATE DISTRICT

2024* Water Quality Report

177,000 Constituents | 47% Rely on Private Wells for Drinking Water



There are 31 presumed PFAS sources, and 22% of state-tested wells had at least one of the chemicals in 2023.

Nitrate Exceedances

From 2022 to 2024, 42% of public and 13% of private wells sampled exceeded the Preventive Action Limit for nitrate in drinking water.

Outstanding/ Exceptional Surface Scanaba More than Waters

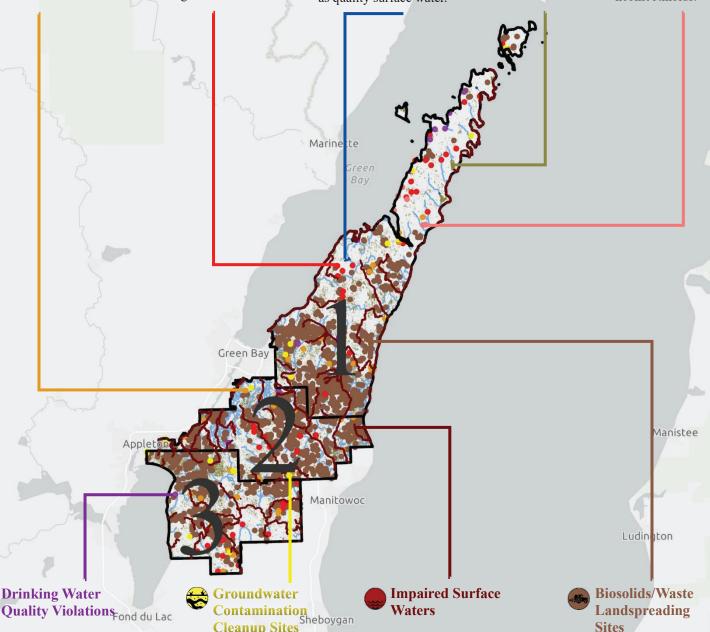
Almost 2% of river and stream miles and 1% of lake acres are classified as quality surface water.

Wetland Loss Gall

170,600 acres of wetlands are categorized as lost but potentially restorable.

Neonicotinoid Detects

Between 2019 and 2023, 9% of statetested wells contained one of three neonicotinoids.



Approximately 2% of public water systems reported contaminant violations between

Cleanup Sites Twenty-four groundwater sites are listed as

contaminated.

Waters

Over 8% of total lake acres and 36% of river and stream miles are listed as impaired.



Septage, municipal, and industrial wastes are applied to over 57,000 acres.





2022 and 2024.



- Three private and 66 public* wells sampled exceeded the Preventative Action Limit from 2022-2024.
- Elevated levels of nitrate are generally due to agricultural runoff and industrial discharges.
- Nitrate has been linked to blue baby syndrome, colon cancer, thyroid disease, and neural tube defects.
- Current permit holders have applied approximately 1.9 billion gallons of waste to over 2,200 separate fields.²
- The liquid and solid waste is generated from paper mills, septage operations, and food processing plants.
- Landspreading waste can transport contaminants by contaminating groundwater and food and feed crops in the area.





- Seven private and 15 municipal wells tested by the state had detectable levels of PFAS in 2023.³
- The 31 presumed sources include facilities that manufacture, manage, and/or discharge PFAS materials.⁴
- PFAS consumption can cause developmental effects in children, decreased fertility, and some cancers.



- From 2019-2023, seven private and monitoring wells sampled contained one or more neonicotinoids.⁵
- Neonicotinoid insecticides are applied to agricultural crops, lawns and gardens, golf courses, and more.
- Negative impacts to non-target insect species cause food chain issues in fish, birds, and potentially other taxa.





- Bacteria, nitrate, and arsenic violations occurred in fourteen public* water systems from 2022-2024.6
- These contaminants often enter drinking water from agricultural operations and natural sources.

Petenwell

• Sustained ingestion at high levels can cause gastrointestinal issues, cancer, and cardiovascular disease, respectively.

Appleton



- These chemical mixtures enter water through industrial/military discharges, storage tank leaks, and landfill leachate.
- If ingested through drinking water, the pollutants pose cancer, organ damage, and/or other serious health risks.



Fond du Lac



- Of the thousands of wetland acres lost, 14% of the total land acreage has the potential for restoration.³
- Degradation and loss of Wisconsin wetlands is primarily due to invasives, development, and conversion to cropland.
- Wetlands absorb pollutants before they enter water, including drinking water; without them, we lose natural filters.
- More than 690 acres and 560 miles of surface waters are listed as impaired under the Clean Water Act.³
- The mercury, phosphorus, lead, and/or PCBs throughout are often from agricultural and industrial discharges.
- Ingestion of these pollutants can lead to organ damage, cardiovascular and reproductive issues, cancer, and more.





- Over 29 miles and 101 acres of surface waters are classified as Outstanding or Exceptional Waters by the state.³
- These waterbodies support fisheries and wildlife and have high water quality from effective management and protection.
- As some drinking water is sourced from surface water, these are essential public health resources, too.

Crystallako

