arsenic mg/L,

asbestos MFL,

cyanide mg/L,

flouride mg/L,

mercury mg/L,

oxamyl ug/L,

PCB ug/L,

pentachlorophenol mg/L,

picloram ppm,

selenium mg/L

https://www.mass.gov/info-details/arsenic-in-private-well-water-faqs#what-is-the-regulatory-standard-for-arsenic-in-drinking-water?-

Arsenic -

Caution: 0.010 mg/L or parts per million (ppm),

Extreme Caution: 0.050 mg/L

Danger: 0.2 mg/L

Additional Info: EPA bumped their safety limit from .05 to .01 mg/L for arsenic due to data showing higher levels of cancer risk.

https://www.atsdr.cdc.gov/PHS/PHS.asp?id=28&tid=4

Asbestos -

Caution: 7 MFL

\*Extreme Caution: 25 MFL

\*Danger: 100 MFL

Additional Info: Found in food, water, and air, Asbestos is fairly common in the environment, but minimizing exposure is still important for public health. More common in industrialized areas.

https://www.epa.gov/sites/production/files/2016-08/documents/cyanide-clarification-free-and-total-cyanide-analysis-safe-drinking-water.pdf

Cyanide -

Caution: 0.2 mg/L

\*Extreme Caution: 1 mg/L

\*Danger: 4 mg/L

Additional Info: Similar to asbestos in it being more common in industrialized territories and in a variety of forms it can contaminate. High contamination levels often are caused by cyanide spills from malpractice in industry that uses cyanides.

https://www.wqa.org/learn-about-water/common-contaminants/fluoride

Fluoride -

Caution: 2.0 mg/L

\*Extreme Caution: 10 mg/L

\*Danger: 30 mg/L

Additional Info:

“Natural trace element” common in soil. A trace amount is put in drinking water for dental health purposes. Too much fluoride can lead to skeletal fluorosis.

https://www.wqa.org/learn-about-water/common-contaminants/mercury

Mercury -

Caution: 0.002 mg/L

\*Extreme Caution: 0.02 mg/L

\*Danger: 0.1 mg/L

Additional Info: Naturally occurring metal that mixes with other elements to create mercury compounds. Can cause kidney damage.

https://www.aquaoxwaterfilters.com/oxamyl-water-filter/

Oxamyl -

Caution: 200 ug/L

\*Extreme Caution: 1000 ug/L

\*Danger: 5000 ug/L

Additional Info: Used commercially as a pesticide. Contamination usually stems from misuse in agriculture. Exposure can lead to a variety of symptoms ranging from skin irritation to coma and death.

https://www.atsdr.cdc.gov/csem/csem.asp?csem=30&po=8

https://www.epa.gov/pcbs/learn-about-polychlorinated-biphenyls-pcbs

PCB -

Caution: 0.5 ug/L

\*Extreme Caution: 2 ug/L

\*Danger: 10 ug/L

Additional Info: PCB’s are manufactured organic chemicals commonly used in industry until they were banned in 1979 for their toxicity. Studies have shown exposure increases risk of cancer, damage to immune and nervous systems, as well as risk of birth defects for children whose mothers worked in environments with PCB’s.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3558766/

pentachlorophenol -

Caution: 0.001 mg/L

\*Extreme Caution: 0.005 mg/L

\*Danger: 0.02 mg/L

Additional Info: Used in industry, especially in industry related to wood, but can contaminated soil, water, and the air. Can cause health issues related to blood, liver, kidneys, and the nervous systems.

https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/MONITORING/HEALTHEFFECTS/Pages/picloram.aspx

Picloram -

Caution: 0.5 ppm

\*Extreme Caution: 1 ppm

\*Danger: 4 ppm

Additional Info: Side effects of exposure include damage to nervous system, diarrhea, weakness of immune system, damage to the liver and potential to cause cancer.

https://www.wqa.org/Portals/0/Technical/Technical%20Fact%20Sheets/2015\_Selenium.pdf

Selenium -

Caution: 0.4 mg/L

Extreme Caution: 2.5 mg/L

Danger: 15 mg/L

Additional Info: Natural metal that is used in electronics and similar products. Trace amounts in food are actually helpful as a nutrient, but too much is harmful, leading to health issues such as fatigue and damage to the nervous system.