Musselshell River Above Halfbreed Creek Watershed Top Contaminants

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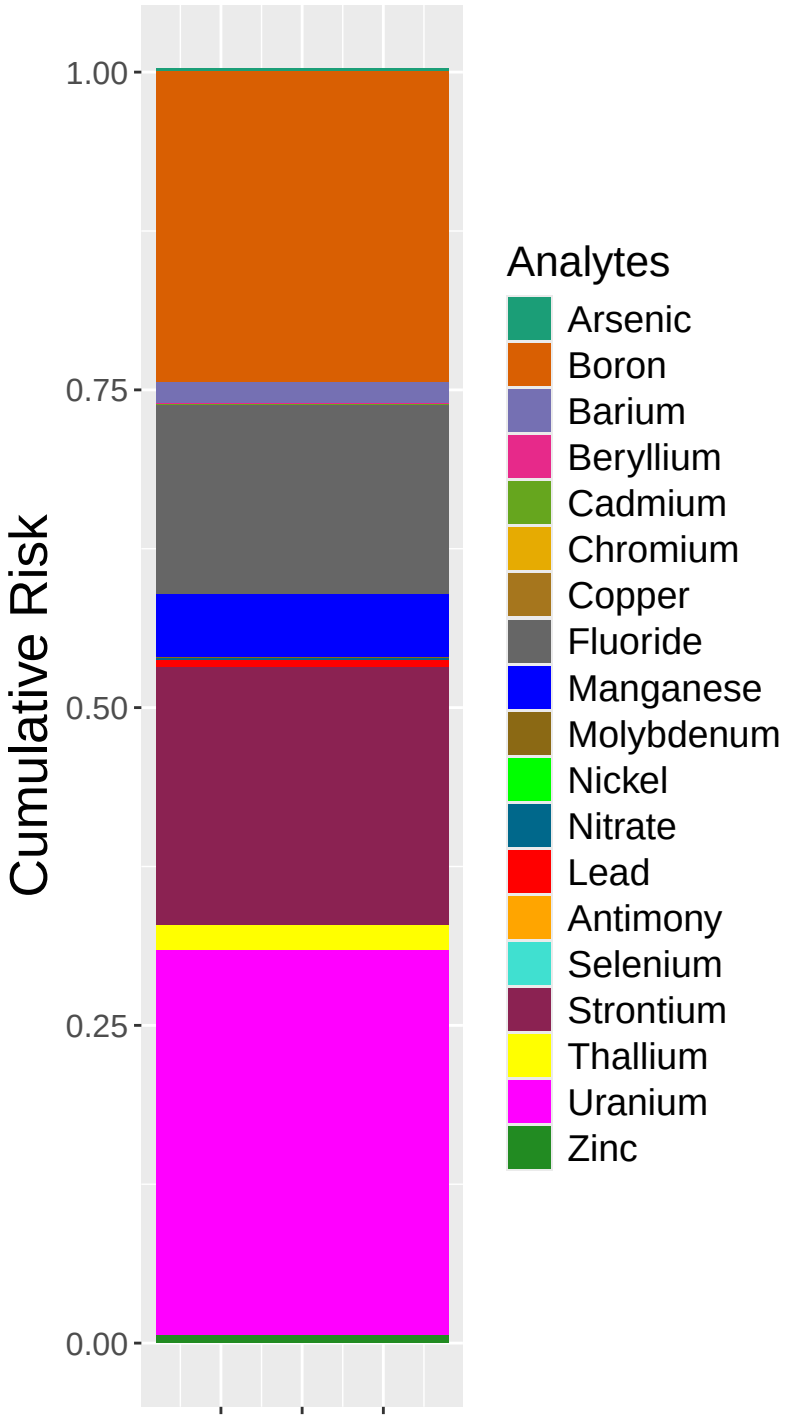
The contaminants below are ranked in order of health concern, with the most important to test for at the top of the list.

The "Threshold" is the most conservatively health protective concentration, above which health risks exist for lifetime consumption. The hazard quotient (HQ), is the most common (median) contaminant concentration for the watershed, divided by the health threshold. The higher the HQ, the higher the health risk and values greater than 1 are considered unacceptable for lifetime consumption. The Cumulative Health Risk is all the HQs added together; values greater than 1 indicate health risks for long-term consumption by sensitive groups, including children, elderly, pregnant women, and those with chronic health conditions.

Cumulative Risk: 1

Rank	Analyte	Threshold (µg/L)	HQ
1	Uranium	3.0	0.30300
2	Boron	1000.0	0.24500
3	Strontium	4000.0	0.20250
4	Fluoride	4.0	0.14862
5	Manganese	0.1	0.05000
6	Thallium	0.5	0.02000
7	Barium	1300.0	0.01623
8	Zinc	2000.0	0.00610
9	Lead	1.0	0.00500
10	Nitrate	10.0	0.00205
11	Arsenic	0.5	0.00200
12	Beryllium	4.0	0.00125
13	Molybdenum	40.0	0.00025
14	Cadmium	5.0	0.00020
15	Antimony	6.0	0.00017
16	Chromium	50.0	0.00010
17	Nickel	100.0	0.00010
18	Selenium	50.0	0.00010
19	Copper	1300.0	0.00000



These results are based on data from the Montana Bureau of Mines and Geology, Groundwater Information Center Database, as of August 24, 2022