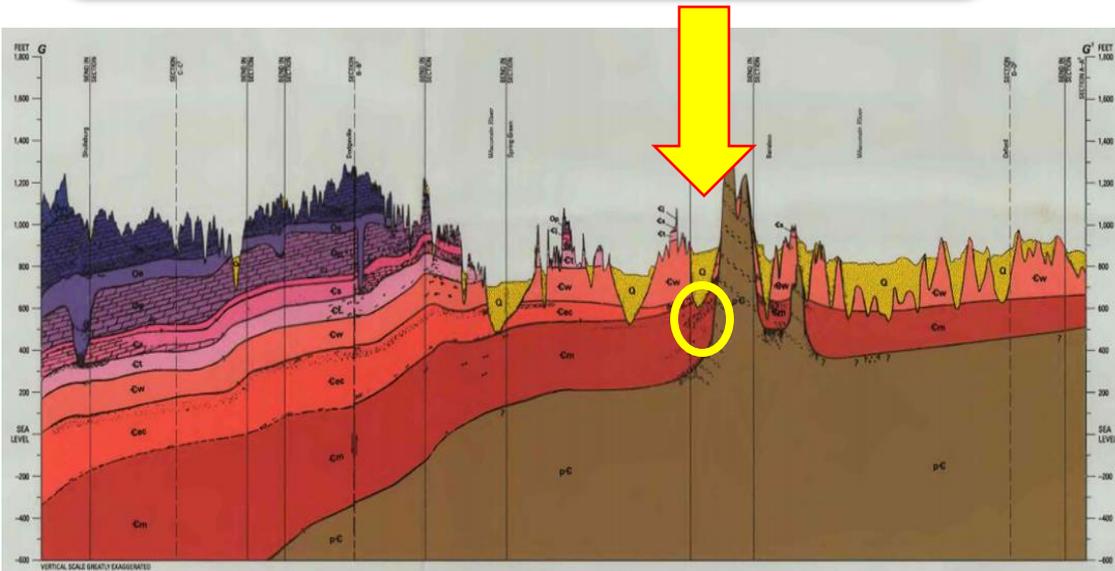


# Rock Spring, 2020

Scanned, southwest to northeast (left to right) image of US Geological Survey physical transect map. Note that the vertical scale is exaggerated to show detail.



Approximate location of the spring is noted with yellow icons.

Water from Rock Spring flows from a sandstone aquifer. Geological deposits like this tend to have lower TDS concentrations than the dolomitic waters of southeastern WI. Lower TDS readings are highly indicative of a shorter flow path and younger water, (USGS considers young to mean 1953-present) –meaning water contacts and dissolves aquifer materials for a shorter period. Highly permeable glacial surface deposits are shown in yellow. Groundwater flows as a dynamic resource, so the exact point of origin cannot be indicated here but it likely originates somewhere between 200-600 ft. below ground level.

Results below!

N. River St., Rock Springs WI 53961

Use road-side pullout  
Please be respectful of private property, and keep pets away from the spout.

# 2020 Water Testing Results:

Indices / Parameters	This Spring	EPA & Common Safety Recommendations
pH	6.9	Between 6.5 - 8.5**
Total Dissolved Solids	179	500 mg/L**
Electrical Conductivity	0.30	5 - 50 $\mu\text{s}/\text{cm}^\ddagger$
Cations / Anions	3.1 / 2.8	N/A
Sodium, Na	5	30 - 60 mg/L $^\ddagger$
Potassium, K	<1	N/A
Calcium, Ca	31.6	N/A
Magnesium, Mg	16	125 mg/L $^\ddagger$
Total Hardness, CaCO <sub>3</sub>	147	N/A
Nitrate, NO <sub>3</sub> -N	2.1	10 mg/L*
Sulfate, SO <sub>4</sub> -S	5	250 mg/L**
Chloride, Cl	6	250 mg/L*
Carbonate, CO <sub>3</sub>	<1.0	N/A
Bicarbonate, HCO <sub>3</sub>	135	N/A
Total Alkalinity, CaCO <sub>3</sub>	111	N/A
Fluoride, F	0.01	4 mg/L*
Total Iron, Fe	<0.01	>0.3 mg/L**

Thresholds for deleterious impact listed above.

Property of SpringWaterTest

Water at Rock Springs has relatively low TDS and great taste. It also has lower calcium carbonate concentrations (hardness), making it an attractive option to many southcentral Wisconsinites who deal with very hard, and poor-tasting municipal water. Although it falls within all safety parameters, this water should be monitored regularly for nitrate and possibly tested in the future for pesticides, that may result from local agricultural activities. Please remember to control pets and be respectful while on this private property.



\* EPA Primary Drinking Water Standard  
 \*\* EPA Secondary Drinking Water Standards  
 $^\ddagger$  Adverse effects to taste possible  
 N/A = no official stance taken, generally not considered a threat  
 $^\ddagger$  "Typical" drinking water

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