



Waukesha Water Utility

SERVING WAUKESHA SINCE 1886

115 DELAFIELD STREET
WAUKESHA, WI 53188-3615

Telephone: (262) 521-5272 • Fax: (262) 521-5265 • E-mail: contactus@waukesha-water.com

DATE: April 5, 2018
TO: Dan Duchniak
FROM: Kelly Zylstra
RE: 2018 Water Supply Status

As we enter the peak pumping season, all active supply wells will be in service with Well No. 10 back at full capacity. We do have a need to do work on Well No. 13 due to falling capacity issues, which we are planning to schedule early Fall.

We are capable of producing up to 17.1 million gallons per day (mgd) with Well No. 10 back to full capacity. Of this 17.1mgd capacity, we have available 9.47mgd of radium compliant water, assuming Well No. 10 remains close to its recent actual capacity.

In 2017, our average day pumpage was 5.86mgd with our maximum day on December 16, 2017, pumping 7.54mgd. In addition to well pumpage capacity, we have 7.75 million gallons of ground storage and 7.07 million gallons of elevated storage to meet peak hour and fire protection demands.

The table below shows well capacity, radium levels, and anticipated well pump rehabilitations.

Station	Design Capacity (gpm)	2017 Actual Capacity (gpm)	Age of Equipment (Years)	Next Rehab	Radium Level pCi/L*	On-Site Treatment or Blending	2017 Total Output (/mg**)	2017 Total Hours
Well 3	950	788	3	2019	3.07	HMO	318,471	6,723
Well 5	1,000	1,110	20		6.88	No	19,481	292
Well 6	1,900	2,211	2	2025	12.0	No	96,537	748
Well 7	750	646	14	2021	4.08***	No	10,066	256
Well 8	1,600	1,763	4	2022	3.54	Blending/HMO	533,115	5,040
Well 9	1,350	1,345	15		12.0	No	1,823	23
Well 10	2,700	2704/1540****	<1	2020	3.11	HMO	822,761	6,873
Well 11	500	164	5	2019	1.36	Blending	34,382	3,496
Well 12	700	570	5	2019	1.14	Blending	102,257	2,996
Well 13	750	589	9	2018	1.5	Shallow Well	191,891	5,424

* From 2017 testing

**Million gallons

***Recent tests show radium levels for 2017 were <5.0, however have been higher in previous years.

**** Well No. 10 full capacity restored on July 28, 2017. Prior to this the temporary pump produced 1,540gpm.