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DATE: April 8, 2019

TO: Dan Duchniak

FROM: Kelly Zylstra

RE: 2019 Water Supply Status

As we enter the peak pumping season of 2019, all active supply wells will be in service with Well No. 10 running at half capacity for a few months. We had a shaft break on Well No. 13 in January, covered under warranty from the work done in 2018, however due to the nature of the fix it was able to be back in service by the third week of February. Well 10 continues to experience phase issues with the incoming power from We Energies; however was placed on line March 28th at reduced capacity.

2018 Design Age of Radium On-Site Total 2018 Capacity 2018 Actual Equipment Next Level Treatment Output Total Station (Years) Rehab^e pCi/L^f or Blending (/mg^h) (gpm) Capacity (gpm) Hours Well 3 950 774 **4**^a 2020 2.48 HMO 255,273 5,497 Well 5 1,000 1,150 21 2024 5.23 No 25,879 376 Well 6 1,900 2,311 3 2026 6.69 No 44,016 318 Well 7 750 705 15 2023 3.45^g 12,263 290 No Blending/ <1^b Well 8 1.600 1,778 2022 2.8 457,906 4.320 нмо Well 9 1,350 1,288 2025 8.95 No 1,155 15 16 Well 10 2,700 2704 <1° 2021 3.54 нмо 973,015 6,000 Well 11 500 158 6 0.30 Blending 28,023 2,980 -Well 12 700 545 7 Blending 96,091 2,947 1.14 Shallow Well 13 750 550 <1^d 0.4 182,157 5,548 Well

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

^a #3 Pump and motor placed in service on 9/28/2015

^b #8 Pump and motor placed in service in 11/29/2018

^c #10 Temp pump and motor placed in well on 1/23/2019 however not able to run due to phase issues

^d #13 Pump and motor placed in service in 7/24/2018

^e Will be modified depending on which wells are approved as emergency sources of supply

^f Most recent sample result available from 2018 testing

^g Tests from 2017 and 2018 were <5.0 however, have been higher in previous year.

h Million gallons

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 9.3mgd of radium compliant water when Well No. 10 is at full capacity, and 7.6mgd when it is at half capacity.

In 2018, our average day pumpage was 5.6mgd with our maximum day on August 25, 2018, pumping 8.5mgd. In addition to well pumpage capacity, we have 7.7 million gallons of ground storage and 7.0 million gallons of elevated storage (including Hillcrest Reservoir) to meet peak hour and fire protection demands.