

**SUMMARY OF WATER QUALITY REPORT
May, 2019**

Summary Statement

To West Des Moines Water Works, the quality of water provided to its customers is of vital importance. Therefore, monitoring is conducted at least as often as required by rules of the U.S. Environmental Protection Agency and the Iowa Department of Natural Resources. For many substances, West Des Moines Water Works voluntarily monitors more frequently than is required by the governmental rules.

All U.S. Environmental Protection Agency and the Iowa Department of Natural Resources requirements are being met at this time.

For a complete list of all sampling results, please contact the West Des Moines Water Works Treatment Plant at (515) 222-3465.

New Test Results Received Since the Last Report

Water samples received during this month met or exceeded water quality standards.

Prepared by:



Mitch Pinkerton
Water Production Manager

WEST DES MOINES WATER WORKS
June 6, 2019

SUBSTANCES FREQUENTLY MONITORED BY							
WEST DES MOINES WATER WORKS							
RAW WATER (BEFORE TREATMENT)							
May 2019							
Substance	Test	Concentration					
	Frequency	Average	High	Low			
Calcium Hardness	1/week	243 mg/l	260 mg/l	228 mg/l			
Copper	1/week	0.06 mg/l	0.07 mg/l	0.03 mg/l			
Fluoride	1/week	1.7 mg/l	1.9 mg/l	1.5 mg/l			
Iron	1/week	0.28 mg/l	0.36 mg/l	0.17 mg/l			
Magnesium Hardness	1/week	126 mg/l	146 mg/l	104 mg/l			
Manganese	1/week	0.19 mg/l	0.21 mg/l	0.17 mg/l			
Nitrate as Nitrogen	1/week	0.24 mg/l	0.27 mg/l	0.18 mg/l			
Orthophosphate	1/week	0.13 mg/l	0.16 mg/l	0.10 mg/l			
Phenolphthalein							
Alkalinity as CaCO3	1/week	0	0	0			
pH (pH units)	1/week	7.3	7.3	7.3			
Sulfate	1/week	356 mg/l	360 mg/l	350 mg/l			
Temperature	1/week	21 °C	21 °C	21 °C			
Total Alkalinity/CaCO3	1/week	278	292	260			
Total Dissolved Solids	1/week	683 mg/l	709 mg/l	652 mg/l			
Total Hardness	1/week	369 mg/l	390 mg/l	332 mg/l			
FINISHED WATER (AFTER TREATMENT)							
(INCLUDES PURCHASED WATER)							
Substance	Test	Concentration					
	Frequency	Average	High	Low			
Calcium Hardness	6/day	81 mg/l	104 mg/l	64 mg/l			
Copper	1/week	0.01 mg/l	0.01 mg/l	0.01 mg/l			
Fluoride	1/day	1.1 mg/l	1.2 mg/l	0.9 mg/l			
Free Chlorine *	6/day	1.1 mg/l	1.7 mg/l	0.9 mg/l			
Iron	1/week	0.05 mg/l	0.09 mg/l	0.03 mg/l			
Magnesium Hardness	1/week	61 mg/l	78 mg/l	52 mg/l			
Manganese	1/week	0.013 mg/l	0.019 mg/l	0.009 mg/l			
Nitrate as Nitrogen	1/week	0.55 mg/l	0.58 mg/l	0.51 mg/l			
Orthophosphate	1/week	0.19 mg/l	0.20 mg/l	0.17 mg/l			
Phenolphthalein							
Alkalinity as CaCO3	6/day	14	19	9			
pH (pH units)	6/day	9.3	9.4	9.2			
Polyphosphate	1/week	0.20 mg/l	0.29 mg/l	0.13 mg/l			
Sulfate	1/week	306 mg/l	315 mg/l	295 mg/l			
Temperature	1/week	21 °C	22 °C	20 °C			
Total Alkalinity/CaCO3	6/day	62	76	51			
Total Chlorine	6/day	1.27 mg/l	1.71 mg/l	0.93 mg/l			
Total Dissolved Solids	2/day	551 mg/l	598 mg/l	512 mg/l			
Total Hardness	6/day	142 mg/l	158 mg/l	134 mg/l			
* at Water Treatment Plant							
Prepared by West Des Moines Water Works		Mitch Pinkerton					
June 6, 2019		Water Production Manager					