

SUMMARY OF WATER QUALITY REPORT
August, 2018

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.

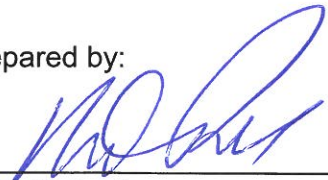
All U.S. Environmental Protection Agency and the Iowa Department of Natural Resources requirements are being met at this time.

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
September 5, 2018

SUBSTANCES FREQUENTLY MONITORED BY							
WEST DES MOINES WATER WORKS							
RAW WATER (BEFORE TREATMENT)							
		August		2018			
Substance	Test Frequency	Average Concentration		High Concentration		Low Concentration	
Calcium Hardness	1/week	268 mg/l		280 mg/l		260 mg/l	
Copper	1/week	0.04 mg/l		0.04 mg/l		0.03 mg/l	
Fluoride	1/week	2.0 mg/l		2.0 mg/l		1.9 mg/l	
Iron	1/week	0.23 mg/l		0.32 mg/l		0.19 mg/l	
Magnesium Hardness	1/week	112 mg/l		120 mg/l		96 mg/l	
Manganese	1/week	0.13 mg/l		0.15 mg/l		0.13 mg/l	
Nitrate as Nitrogen	1/week	0.20 mg/l		0.27 mg/l		0.17 mg/l	
Orthophosphate	1/week	0.09 mg/l		0.11 mg/l		0.08 mg/l	
Phenolphthalein Alkalinity as CaCO ₃	1/week	0		0		0	
pH (pH units)	1/week	7.3		7.3		7.2	
Sulfate	1/week	393 mg/l		400 mg/l		380 mg/l	
Temperature	1/week	23 ° C		24 ° C		23 ° C	
Total Alkalinity/CaCO ₃	1/week	270		272		268	
Total Dissolved Solids	1/week	737 mg/l		746 mg/l		729 mg/l	
Total Hardness	1/week	380 mg/l		384 mg/l		376 mg/l	
FINISHED WATER (AFTER TREATMENT) (INCLUDES PURCHASED WATER)							
Substance	Test Frequency	Average Concentration		High Concentration		Low Concentration	
Calcium Hardness	6/day	87 mg/l		108 mg/l		76 mg/l	
Copper	1/week	0.01 mg/l		0.01 mg/l		0.01 mg/l	
Fluoride	1/day	1.2 mg/l		1.4 mg/l		1.1 mg/l	
Free Chlorine *	6/day	1.1 mg/l		1.6 mg/l		0.8 mg/l	
Iron	1/week	0.02 mg/l		0.02 mg/l		0.01 mg/l	
Magnesium Hardness	1/week	57 mg/l		80 mg/l		43 mg/l	
Manganese	1/week	0.009 mg/l		0.012 mg/l		0.006 mg/l	
Nitrate as Nitrogen	1/week	0.53 mg/l		0.56 mg/l		0.50 mg/l	
Orthophosphate	1/week	0.17 mg/l		0.19 mg/l		0.15 mg/l	
Phenolphthalein Alkalinity as CaCO ₃	6/day	16		21		11	
pH (pH units)	6/day	9.3		9.5		9.2	
Polyphosphate	1/week	0.17 mg/l		0.26 mg/l		0.02 mg/l	
Sulfate	1/week	366 mg/l		390 mg/l		330 mg/l	
Temperature	1/week	23 ° C		24 ° C		21 ° C	
Total Alkalinity/CaCO ₃	6/day	60		71		50	
Total Chlorine	6/day	1.29 mg/l		1.91 mg/l		0.97 mg/l	
Total Dissolved Solids	2/day	610 mg/l		626 mg/l		572 mg/l	
Total Hardness	6/day	143 mg/l		156 mg/l		136 mg/l	
* at Water Treatment Plant							
Prepared by West Des Moines Water Works September 5, 2018							
Mitch Pinkerton Water Production Manager							