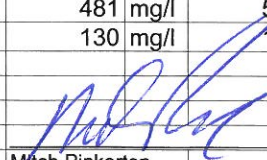


SUBSTANCES FREQUENTLY MONITORED BY						
WEST DES MOINES WATER WORKS						
RAW WATER (BEFORE TREATMENT)						
		October	2018			
Substance	Test Frequency	Concentration				
		Average	High	Low		
Calcium Hardness	1/week	269 mg/l	280 mg/l	246 mg/l		
Copper	1/week	0.04 mg/l	0.05 mg/l	0.04 mg/l		
Fluoride	1/week	1.3 mg/l	1.3 mg/l	1.3 mg/l		
Iron	1/week	0.19 mg/l	0.24 mg/l	0.11 mg/l		
Magnesium Hardness	1/week	91 mg/l	112 mg/l	80 mg/l		
Manganese	1/week	0.22 mg/l	0.24 mg/l	0.19 mg/l		
Nitrate as Nitrogen	1/week	0.25 mg/l	0.26 mg/l	0.23 mg/l		
Orthophosphate	1/week	0.14 mg/l	0.15 mg/l	0.13 mg/l		
Phenolphthalein						
Alkalinity as CaCO3	1/week	0	0	0		
pH (pH units)	1/week	7.2	7.2	7.2		
Sulfate	1/week	269 mg/l	270 mg/l	265 mg/l		
Temperature	1/week	21 ° C	21 ° C	21 ° C		
Total Alkalinity/CaCO3	1/week	277	280	272		
Total Dissolved Solids	1/week	612 mg/l	623 mg/l	604 mg/l		
Total Hardness	1/week	360 mg/l	380 mg/l	326 mg/l		
FINISHED WATER (AFTER TREATMENT)						
(INCLUDES PURCHASED WATER)						
Substance	Test Frequency	Concentration		Low		
		Average	High			
Calcium Hardness	6/day	65 mg/l	88 mg/l	52 mg/l		
Copper	1/week	0.01 mg/l	0.02 mg/l	0.01 mg/l		
Fluoride	1/day	1.0 mg/l	1.1 mg/l	0.8 mg/l		
Free Chlorine *	6/day	1.0 mg/l	1.3 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	65 mg/l	72 mg/l	46 mg/l		
Manganese	1/week	0.009 mg/l	0.012 mg/l	0.003 mg/l		
Nitrate as Nitrogen	1/week	0.52 mg/l	0.59 mg/l	0.46 mg/l		
Orthophosphate	1/week	0.18 mg/l	0.22 mg/l	0.16 mg/l		
Phenolphthalein						
Alkalinity as CaCO3	6/day	14	20	9		
pH (pH units)	6/day	9.3	9.4	9.1		
Polyphosphate	1/week	0.24 mg/l	0.36 mg/l	0.15 mg/l		
Sulfate	1/week	238 mg/l	260 mg/l	190 mg/l		
Temperature	1/week	20 ° C	22 ° C	18 ° C		
Total Alkalinity/CaCO3	6/day	64	74	55		
Total Chlorine	6/day	1.16 mg/l	1.50 mg/l	0.91 mg/l		
Total Dissolved Solids	2/day	481 mg/l	504 mg/l	446 mg/l		
Total Hardness	6/day	130 mg/l	150 mg/l	118 mg/l		
* at Water Treatment Plant						
Prepared by West Des Moines Water Works						
November 6, 2018						
 Mitch Pinkerton Water Production Manager						

**SUMMARY OF WATER QUALITY REPORT**  
**October, 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.

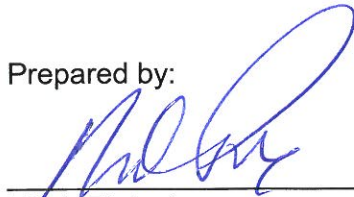
All U.S. Environmental Protection Agency and the Iowa Department of Natural Resources requirements are being met at this time.

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  
November 6, 2018