

**SUMMARY OF WATER QUALITY REPORT
September 2023**

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.

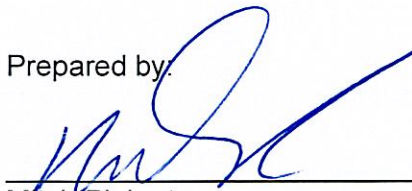
All U.S. Environmental Protection Agency and the Iowa Department of Natural Resources requirements are being met at this time.

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

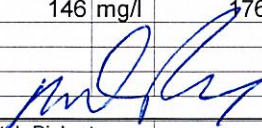
Water samples received during this month met or exceeded water quality standards.

Prepared by:



Mitch Pinkerton
Water Production Manager

WEST DES MOINES WATER WORKS
October 3, 2023

SUBSTANCES FREQUENTLY MONITORED BY WEST DES MOINES WATER WORKS RAW WATER (BEFORE TREATMENT)					
September 2023					
Substance	Test	Concentration			
	Frequency	Average	High	Low	
Calcium Hardness	1/week	230 mg/l	252 mg/l	202 mg/l	
Copper	1/week	0.06 mg/l	0.09 mg/l	0.03 mg/l	
Fluoride	1/week	1.8 mg/l	2.0 mg/l	1.5 mg/l	
Iron	1/week	0.39 mg/l	0.52 mg/l	0.30 mg/l	
Magnesium Hardness	1/week	102 mg/l	136 mg/l	62 mg/l	
Manganese	1/week	0.17 mg/l	0.22 mg/l	0.14 mg/l	
Nitrate as Nitrogen	1/week	0.29 mg/l	0.37 mg/l	0.24 mg/l	
Orthophosphate	1/week	0.12 mg/l	0.19 mg/l	0.07 mg/l	
Phenolphthalein					
Alkalinity as CaCO3	1/week	0	0	0	
pH (pH units)	1/week	7.3	7.4	7.2	
Sulfate	1/week	363 mg/l	440 mg/l	260 mg/l	
Temperature	1/week	21 ° C	23 ° C	20 ° C	
Total Alkalinity/CaCO3	1/week	271	288	262	
Total Dissolved Solids	1/week	732 mg/l	770 mg/l	678 mg/l	
Total Hardness	1/week	332 mg/l	350 mg/l	312 mg/l	
FINISHED WATER (AFTER TREATMENT) (INCLUDES PURCHASED WATER)					
Substance	Test	Concentration			
	Frequency	Average	High	Low	
Calcium Hardness	6/day	91 mg/l	142 mg/l	74 mg/l	
Copper	1/week	0.01 mg/l	0.02 mg/l	0.01 mg/l	
Fluoride	1/day	1.2 mg/l	1.3 mg/l	1.0 mg/l	
Free Chlorine *	6/day	1.2 mg/l	1.6 mg/l	0.4 mg/l	
Iron	1/week	0.04 mg/l	0.09 mg/l	0.01 mg/l	
Magnesium Hardness	1/week	55 mg/l	64 mg/l	34 mg/l	
Manganese	1/day	0.01 mg/l	0.02 mg/l	0.01 mg/l	
Nitrate as Nitrogen	1/week	0.48 mg/l	0.60 mg/l	0.22 mg/l	
Orthophosphate	1/week	0.26 mg/l	0.27 mg/l	0.25 mg/l	
Phenolphthalein					
Alkalinity as CaCO3	6/day	14	19	10	
pH (pH units)	6/day	9.4	9.5	9.3	
Polyphosphate	1/week	0.28 mg/l	0.40 mg/l	0.12 mg/l	
Sulfate	1/week	363 mg/l	420 mg/l	310 mg/l	
Temperature	1/week	22 ° C	23 ° C	20 ° C	
Total Alkalinity/CaCO3	6/day	58	65	51	
Total Chlorine	6/day	1.37 mg/l	1.80 mg/l	0.46 mg/l	
Total Dissolved Solids	2/day	624 mg/l	656 mg/l	566 mg/l	
Total Hardness	6/day	146 mg/l	176 mg/l	132 mg/l	
* at Water Treatment Plant					
Prepared by West Des Moines Water Works October 3, 2023		 Mitch Pinkerton Water Production Manager			