

2025 WATER QUALITY REPORT FOR ORANGE CITY MUNICIPAL WATER DEPARTMENT

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	LRAA	8.00 (8 - 8)	09/30/2025	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	LRAA	12.00 (12 - 12)	09/30/2025	No	By-products of drinking water disinfection
Lead (ppb)	AL=15 (0)	90th	0.00 (ND - 3)	2024	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90th	0.335 (0.0190 - 0.6139)	2024	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
950 - DISTRIBUTION SYSTEM						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	2.0 (1.58 - 2.22)	12/31/2025	No	Water additive used to control microbes
01 - ALL ACTIVE WELLS/ PLANT SAMPLE TAP						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	30.4	03/25/2025	No	Erosion of natural deposits
Combined Radium (pCi/L)	5 (0)	SGL	1.2	02/26/2024	No	Erosion of natural deposits
Gross Alpha, exc (pCi/L)	15 (0)	SGL	13	03/25/2025	No	Erosion of natural deposits
Uranium (ppb)	30 (0)	SGL	25	03/25/2025	No	Erosion of natural deposits.
Arsenic (ppb)	10 (0)	SGL	2.20	04/05/2022	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes
Fluoride (ppm)	4 (4)	RAA	0.78 (0.4880 - 1.1400)	03/31/2025	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Barium (ppm)	2 (2)	SGL	0.0372	04/05/2022	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	27.91	04/04/2023	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	1.85	2025	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

DEFINITIONS

- Maximum Contaminant Level (MCL) – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

contamination at the land surface. The Alluvial wells will be highly susceptible to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources, and is available from the Water Operator at 712-707-4965 .

This water supply obtains its water from the sandstone of the Dakota aquifer. The Dakota aquifer was determined to have low susceptibility to contamination because the characteristics of the aquifer and overlying materials provide natural protection from contaminants at the land surface. The Dakota wells will have low susceptibility to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources, and is available from the Water Operator at 712-707-4965 .

CONTACT INFORMATION

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact ORANGE CITY MUNICIPAL WATER DEPARTMENT at 712-707-4965.