Genesee County Water Treatment Plant 2018 Water Analysis

2018 Annual Average Daily Sample Results

Temp	рН	Turbidity	Hardness		Alkalinity	Fluoride	Aluminum	Phosphate	Sulfate	Chloride	Chlorine
			Total	Ca	Total	F-	Al	PO ₄	SO₄	Cl	Free
°C	S.U.	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14	7.4	0.1	114	92	78	0.72	0.18	2.6	26	12	1.4

2018 Water Analysis Annual Average Results

Analyte	Frequency	Result	Maximum Contaminate Limit	Unit
Iron	Quarterly	Not Detected	-	mg/L
Nitrate as N	Quarterly	Not Detected	10	mg/L
Nitrite as N	Quarterly	Not Detected	1	mg/L
Sodium	Quarterly	7	-	mg/L
Arsenic	Quarterly	Not Detected	0.01	mg/L
Antimony	Annual	Not Detected	0.006	mg/L
Barium	Annual	0.014	2	mg/L
Beryllium	Annual	Not Detected	0.004	mg/L
Cadmium	Annual	Not Detected	0.005	mg/L
Chromium	Annual	Not Detected	0.1	mg/L
Lead	Annual	Not Detected	0.015	mg/L
Mercury	Annual	Not Detected	0.002	mg/L
Nickel	Annual	0.00036	0.1	mg/L
Selenium	Annual	Not Detected	0.05	mg/L
Thallium	Annual	Not Detected	0.002	mg/L

Chemicals Used in Treating Water And Their Purpose

Chemical	Purpose			
Alum	Works as the primary coagulant in the water treatment process.			
Chlorine	Chlorine Disinfectant. Kills any remaining parasites, bacteria and viruses.			
Fluoride	Prevents tooth decay.			
Phosphate	Anti-corrosion. Forms a protective layer and acts as a barrier to corrosion, reducing dissolution of lead into the water.			
Polymer	Coagulant aid in the water treatment process.			
Potassium Manganate	Algae control.			
Sodium Hydroxide	pH control.			