

## 2023 Water Quality Composite

Analyte	Matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	
Total Alkalinity (mg/L)	Raw	92	91	92	86	75	67	68	69	67	67	68	73	76	
Total Alkalinity (mg/L)	Finished	80	79	80	74	63	54	57	60	57	55	57	63	65	
Total Hardness (mg/L)	Raw	131	124	148	151	124	103	103	105	104	107	112	135	121	
Total Hardness (mg/L)	Finished	130	125	148	150	124	102	102	105	103	106	112	135	120	
Magnesium Hardness (mg/L)	Finished	37	34	59	66	39	27	24	25	26	28	28	41	36	
Calcium Hardness (mg/L)	Finished	93	92	89	84	85	76	78	79	77	78	85	93	84	
pH	Raw	8.35	8.31	8.34	8.21	8.03	7.98	8.01	8.04	8.02	8.07	8.14	8.08	8.13	
pH	Finished	7.46	7.39	7.36	7.37	7.25	7.23	7.40	7.44	7.37	7.43	7.30	7.39	7.37	
Turb (NTU)	Raw	10.3	12.1	12.9	19.6	22.0	17.2	14.2	13.5	12.2	10.9	8.5	10.2	13.6	
Turb (NTU)	Clarafier	0.77	0.82	0.66	0.73	1.88	1.00	0.94	0.73	0.77	1.01	0.78	0.97	0.92	
Turb (NTU)	Finished	0.053	0.053	0.048	0.050	0.058	0.058	0.054	0.050	0.051	0.052	0.049	0.052	0.052	
Chlorine residual -free (mg/L)	Finished (DCB eff)	2.02	2.04	2.02	1.89	1.80	1.84	1.81	1.83	1.85	1.89	2.04	2.05	1.92	
Chlorine residual -total (mg/L)	Finished/Storage	2.00	2.06	1.98	1.89	1.80	1.80	1.79	1.77	1.78	1.89	1.93	2.05	1.89	
Monochloramine (mg/L)	Finished/Storage	1.69	1.86	1.72	1.44	1.40	1.47	1.45	1.63	1.20	1.36	1.33	1.49	1.50	
Free Ammonia (as N) (mg/L)	Finished/Storage	0.02	0.01	0.06	0.06	0.03	0.05	0.04	0.01	0.00	0.01	0.02	0.01	0.03	
% of residual as Monochloramine	Finished/Storage	85%	87%	88%	77%	73%	78%	75%	89%	71%	72%	69%	75%	78%	
Total Ammonia (mg/L)	Finished/Storage	0.46	0.43	0.48	0.39	0.35	0.46	0.40	0.33	0.27	0.28	0.31	0.33	0.37	
Color (color units)	Raw	119	114	140	213	250	170	141	134	129	101	85	108	142	
Total Dissolved Solids (mg/L)	Raw	145	142	144	149	118	98	99	99	97	99	105	127	118	
Total Dissolved Solids (mg/L)	Finished	149	146	149	153	123	103	105	103	101	103	108	131	123	
Iron (mg/L)	Raw	0.15	0.04	0.1	0.15	0.19	0.07	0.29	0.79	0.21	0.23	0.18	0.17	0.21	
Iron (mg/L)	Finished/Storage	0.01	0.01	0.06	BDL	0.01	BDL	0.01	0.04	BDL	BDL	BDL	BDL	0.02	
Copper (ug/L)	Raw	7	14	9	14	14	15	19	25	19	11	29	17	16	
Copper (ug/L)	Finished/Storage	12	37	8	16	18	9	17	48	7	13	16	7	17	
Phosphorus (mg/L)	Raw	0.09	0.05	0.06	0.01	0.08	0.05	0.09	0.04	0.06	0.05	0.05	0.08	0.06	
Phosphorus (mg/L)	Finished/Storage	0.03	0.05	0.01	0.07	0.02	0.01	0.03	0.03	0.02	0.03	0.09	0.01	0.03	
Sulfate (mg/L)	Raw	50	50	53	52	35	26	26	28	24	25	33	51	38	
Sulfate (mg/L)	Finished/Storage	61	61	63	70	48	47	43	43	42	44	49	63	53	
Fluoride (mg/L)	Finished/Storage	0.24	0.39	0.25	0.29	0.28	0.14	0.11	0.24	0.26	0.33	0.24	0.29	0.26	
Langlier Index (10 Sample Avg.)	Distribution System		-1.48				-1.5			-1.48			-1.5		-1.49