

WATER QUALITY AND TREATMENT DIVISION
TABLE 5 - MILLER PLANT WATER QUALITY FY2023 (Jul 2022 - Jun 2023)
(mg/L, except as noted)

	FY 2023			PRIOR 5 YEARS		
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM
RAW WATER						
Turbidity (NTU)	36	282	3.9	45	541	3.2
Total Alkalinity (as CaCO ₃)	71	89	44	71	100	46
Total Hardness (as CaCO ₃)	116	138	86	116	174	76
Calcium (as Ca) ^a	32	35	26	35	44	23
Magnesium (as Mg) ^a	8	12	5	7	14	0.5
pH (Units)	7.8	8.1	7.4	7.8	8.3	7.3
Chloride	22	65	12	23	59	10
Fluoride ^b	0.13	0.18	0.09	0.13	0.26	0.07
Sulfate	46	66	28	53	98	28
Nitrate (as NO ₃ - N)	0.72	1.00	0.50	0.77	1.66	0.05
Iron (as total Fe)	0.6	0.6	0.6	1.4	2.3	0.3
Manganese (as total Mn)	0.13	0.47	0.02	0.14	0.68	0.03
Sodium	18	33	12	21	86	10
Total Suspended Solids ^c	46	502	4	256	402	134
Total Dissolved Solids	195	248	144	194	282	124
Total Organic Carbon	2.65	4.13	1.96	3.02	5.38	1.59
TREATED WATER						
Turbidity (NTU)	0.07	0.11	0.04	0.06	0.12	0.03
Total Alkalinity (as CaCO ₃)	78	98	53	78	117	46
Total Hardness (as CaCO ₃)	121	144	92	119	167	86
Calcium (as Ca) ^a	34	38	27	35	45	24
Magnesium (as Mg) ^a	8	11	4	8	18	2
pH (Units)	8.8	9.0	8.6	8.9	9.2	8.6
Chloride	21	28	14	24	42	10
Fluoride	0.84	0.93	0.80	0.85	1.10	0.65
Sulfate	59	74	45	58	95	42
Nitrate (as NO ₃ - N)	0.79	1.06	0.56	0.79	1.39	0.40
Iron (as total Fe)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Manganese (as total Mn)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium	25	33	19	25	49	15
Total Solids ^d	210	260	134	208	304	140
Total Dissolved Solids	210	260	134	208	304	140
Total Organic Carbon	0.76	1.13	0.31	0.80	1.66	0.36
Phosphate (as PO ₄ - P)	0.18	0.23	0.08	0.19	0.35	0.04
Chlorine Residual, Free	1.29	1.63	1.04	1.29	1.66	0.95
Chlorine Residual, Total	1.35	1.67	1.10	1.35	1.76	1.01

(a) Calcium and Magnesium values are calculated from hardness data.

(b) Fluoride samples were collected from west seal well. It is assumed that fluoride levels were similar at raw and west seal well.

(c) The concentration of total solids at raw water is the sum of Total Suspended Solids and Total Dissolved Solids, these concentrations were not necessarily sampled on same day.

(d) The concentration of total solids at finished water is expected to be similar to that of TDS since turbidity level is very low for treated water (< 0.15 NTU).