

WATER QUALITY AND TREATMENT DIVISION

TABLE 1 - MICROBIOLOGICAL AND CYANOTOXIN ANALYSES FY2024 (Jul 2023 - Jun 2024)

	2024	2023	2022	2021	2020	2019
Total Coliform Bacteria						
<i>Raw Water (MPN per 100 mL): Miller Plant</i>						
Average	2,268	1,460	2,795	1,394	3369	7,086
Maximum Monthly Average	8,943	3,545	6,500	3,336	10,117	23,439
Maximum Day	39,726	7,746	17,328	11,855	33,205	75,360
Minimum Monthly Average	128	161	360	294	428	1,360
Minimum Day	64	67	10	69	50	100
<i>Distribution Finished Water (presence/absence)**</i>						
Number of Positive Samples (annual % positive)	0 (0.0%)	3 (0.1%)	5 (0.2%)	1 (0.03%)	0 (0.0%)	4 (0.1%)
Number of Samples	3,042	3,053	3,142	3107	3,124	3,147
E. coli Bacteria						
<i>Raw Water (MPN per 100 mL): Miller Plant</i>						
Average	86	41	110	68	175	273
Maximum Monthly Average	258	152	355	148	849	708
Maximum Day	1,672	403	727	435	3,070	2,225
Minimum Monthly Average	1	1	<1	<1	<1	<1
Minimum Day	*	<1	<1	<1	<1	<1
Giardia Cysts						
Number per 100 LITERS						
<i>Raw Water: Miller Plant</i>						
Number of Positive Samples	2	2	4	5	8	9
Average of Detections	12	25	30	168	36	33
Minimum Detection	*	5	7	20	3	10
Maximum Detection	40	44	68	420	128	78
Number of Samples	4	4	8	12	12	12
<i>Finished Water: Miller Plant</i>						
Number of Positive Samples	0	0	0	0	0	0
Number of Samples	4	4	6	12	12	12
Cryptosporidium Oocysts						
Number per 100 LITERS						
<i>Raw Water: Miller Plant</i>						
Number of Positive Samples	1	1	0	1	3	3
Average of Detections	1.3	9	0	13	20	15
Minimum Detection	*	0	0	13	3	5
Maximum Detection	5	9	0	13	52	29
Number of Samples	4	4	8	12	12	12
<i>Finished Water: Miller Plant</i>						
Number of Positive Samples	0	0	0	0	0	0
Number of Samples	4	4	6	12	12	12

* Below Detection Limit

**The OEPA Revised Total Coliform Rule requires an assessment of a Distribution system when more than 5.0 percent of the total number of samples collected from the system during a month are total coliform-positive. The Monthly Percentage of samples collected from the combined Miller/Bolton Distribution were below this requirement.

MPN - most probable number

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TABLE 1 (cont) - MICROBIOLOGICAL AND CYANOTOXIN ANALYSES FY2024 (Jul 2023 - Jun 2024)

	2024	2023	2022	2021	2020	2019
Cyanotoxin - Microcystin						
µg per LITER						
<i>Raw Water: Miller Plant</i>						
Number of Positive Samples	0	0	0	0	1	0
Average of Detections	*	*	*	*	0.4	*
Minimum Detection	*	*	*	*	0.4	*
Maximum Detection	*	*	*	*	0.4	*
Number of Samples	28	26	29	26	37	21
Microcystin Gene Copies (GC)						
GC per µL						
<i>Raw Water: Miller Plant</i>						
Number of Positive Samples	0	0	0	0	1	0
Average of Detections	*	*	*	*	0.52	*
Minimum Detection	*	*	*	*	0.52	*
Maximum Detection	*	*	*	*	0.52	*
Number of Samples	13	13	14	14	13	26
Cylindrospermopsin GC						
GC per µL						
<i>Raw Water: Miller Plant</i>						
Number of Positive Samples	0	0	0	0	0	0
Number of Samples	13	13	14	14	13	26
Saxitoxin GC						
GC per µL						
<i>Raw Water: Miller Plant</i>						
Number of Positive Samples	1	0	0	0	0	0
Average of Detections	*	*	*	*	*	*
Minimum Detection	*	*	*	*	*	*
Maximum Detection	*	*	*	*	*	*
Number of Samples	13	13	14	14	13	26
Total Cyanobacteria GC						
GC per µL						
<i>Raw Water: Miller Plant</i>						
Number of Positive Samples	13	13	14	14	13	26
Average of Detections	63	105	197	170	341	112
Minimum Detection	4.2	0.3	26	23	20	12
Maximum Detection	253	461	673	391	1100	370
Number of Samples	13	13	14	14	13	26

* Below Detection Limit