

WATER QUALITY AND TREATMENT DIVISION
TABLE 1 - MICROBIOLOGICAL AND CYANOTOXIN ANALYSES FY2023 (Jul 2022 - Jun 2023)

	2023	2022	2021	2020	2019	2018	2017
Total Coliform Bacteria							
<i>Raw Water (MPN per 100 mL): Miller Plant</i>							
Average	1,460	2,795	1,394	3369	7,086	3,698	4191
Maximum Monthly Average	3,545	6,500	3,336	10,117	23,439	8,753	26,644
Maximum Day	7,746	17,328	11,855	33,205	75,360	30,715	80,656
Minimum Monthly Average	161	360	294	428	1,360	1093	259
Minimum Day	67	10	69	50	100	50	60
<i>Distribution Finished Water (presence/absence)**</i>							
Number of Positive Samples (annual % positive)	3 (0.1%)	5 (0.2%)	1 (0.03%)	0 (0.0%)	4 (0.1%)	2 (0.1%)	1 (0.03%)
Number of Samples	3,053	3,142	3107	3,124	3,147	3,136	3,153
E. coli Bacteria							
<i>Raw Water (MPN per 100 mL): Miller Plant</i>							
Average	41	110	68	175	273	194	141
Maximum Monthly Average	152	355	148	849	708	521	712
Maximum Day	403	727	435	3,070	2,225	1,524	2,807
Minimum Monthly Average	1	<1	<1	<1	<1	<1	4
Minimum Day	<1	<1	<1	<1	<1	<1	<1
Giardia Cysts							
Number per 100 LITERS							
<i>Raw Water: Miller Plant</i>							
Number of Positive Samples	2	4	5	8	9	3	8
Average of Detections	25	30	168	36	33	75	52
Minimum Detection	5	7	20	3	10	8	6
Maximum Detection	44	68	420	128	78	203	131
Number of Samples	4	8	12	12	12	12	20
<i>Finished Water: Miller Plant</i>							
Number of Positive Samples	0	0	0	0	0	0	0
Number of Samples	4	6	12	12	12	9	12
Cryptosporidium Oocysts							
Number per 100 LITERS							
<i>Raw Water: Miller Plant</i>							
Number of Positive Samples	1	0	1	3	3	1	0
Average of Detections	9	0	13	20	15	8	*
Minimum Detection	0	0	13	3	5	8	*
Maximum Detection	9	0	13	52	29	8	*
Number of Samples	4	8	12	12	12	12	20
<i>Finished Water: Miller Plant</i>							
Number of Positive Samples	0	0	0	0	0	0	0
Number of Samples	4	6	12	12	12	9	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 FY2023 (Jul 2022 - Jun 2023)

	2023	2022	2021	2020	2019	2018	2017
Cyanotoxin - Microcystin							
µg per LITER							
<i>Raw Water: Miller Plant</i>							
Number of Positive Samples	0	0	0	1	0	0	0
Average of Detections	*	*	*	0.4	*		
Minimum Detection	*	*	*	0.4	*		
Maximum Detection	*	*	*	0.4	*		
Number of Samples	26	29	26	37	21	20	32
Microcystin Gene Copies (GC)							
GC per µL							
<i>Raw Water: Miller Plant</i>							
Number of Positive Samples	0	0	0	1	0	0	0
Average of Detections	*	*	*	0.52	*		
Minimum Detection	*	*	*	0.52	*		
Maximum Detection	*	*	*	0.52	*		
Number of Samples	13	14	14	13	26	27	26
Cylindrospermopsin GC							
GC per µL							
<i>Raw Water: Miller Plant</i>							
Number of Positive Samples	0	0	0	0	0	0	0
Number of Samples	13	14	14	13	26	27	26
Saxitoxin GC							
GC per µL							
<i>Raw Water: Miller Plant</i>							
Number of Positive Samples	0	0	0	0	0	1	1
Average of Detections	*	*	*	*	*	0.1	0.3
Minimum Detection	*	*	*	*	*	*	*
Maximum Detection	*	*	*	*	*	3	7.8
Number of Samples	13	14	14	13	26	27	26
Total Cyanobacteria GC							
GC per µL							
<i>Raw Water: Miller Plant</i>							
Number of Positive Samples	13	14	14	13	26	27	26
Average of Detections	105	197	170	341	112	118	220
Minimum Detection	0.3	26	23	20	12	5.9	3.1
Maximum Detection	461	673	391	1100	370	730	1400
Number of Samples	13	14	14	13	26	27	26

* Below Detection Limit