



## EM Johnson Water Plant Monthly Quality Report May, 2020

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	20.7		
Color, units	1.3		<b>15</b>
pH, units	8.4		<b>6.5 - 8.5</b>
Free Carbon Dioxide, mg/l	0.19		
Total Alkalinity, mg/l as CaCO <sub>3</sub>	23.6		
Total Hardness, mg/l as CaCO <sub>3</sub>	24.9		
Total Dissolved Solids, mg/l	122		
Specific Conductivity, uS/cm	182		
Iron, mg/l	<0.10		<b>0.3</b>
Manganese, mg/l	0.01		<b>0.05</b>
Fluoride, mg/l	0.75		<b>4</b>
Chloride, mg/l	11.1		
Ammonia, mg/l as N	0.57		
Nitrate, mg/l as N	0.05	<b>10</b>	
Silica, mg/l as SiO <sub>3</sub>	7.00		
Total Coliform Bacteria*	Absent	<b>0</b>	
E. Coli	Absent	<b>0</b>	
Total Trihalomethanes, mg/l	0.017	<b>0.080</b>	

\* In 95% of samples collected

\*\*MCL = Maximum Contaminant Level

Certified By:

*Vannessa Barnes*

Vannessa Barnes, Laboratory Scientist Supervisor

NC Lab ID Number 37604

## EM Johnson Water Plant Quality Report 2020 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	11.6	11.6	14.1	18.5	20.7								15.3
Color, units	1	0.5	0.2	0.8	1.3								0.8
pH, units	8.4	8.4	8.4	8.4	8.4								8.4
Free Carbon Dioxide, mg/l	0.22	0.22	0.18	0.15	0.19								0.19
Total Alkalinity, mg/l as CaCO <sub>3</sub>	30.8	27.4	23.6	21.5	23.6								25.4
Total Hardness, mg/l as CaCO <sub>3</sub>	27.1	26.3	20.8	21.8	24.9								24.2
Total Dissolved Solids, mg/l	137	139	126	117	122								128
Specific Conductivity, uS/cm	206	210	192	175	182								193
Iron, mg/l	0.01	0.00	<0.10	<0.10	<0.10								0.01
Manganese, mg/l	<0.01	0.01	0.01	0.01	0.01								<0.01
Fluoride, mg/l	0.82	0.78	0.78	0.73	0.75								0.77
Chloride, mg/l	12.6	13.5	10.5	10.1	11.1								11.6
Ammonia, mg/l as N	0.53	0.54	***	0.50	0.57								0.5
Nitrate, mg/l as N	0.29	0.17	<0.10	0.10	0.05								0.15
Silica, mg/l as SiO <sub>3</sub>	9.40	8.3	8.90	8.10	7.00								8.34
Total Coliform Bacteria*	Absent	Absent	Absent	Absent	Absent								Absent
E. Coli	Absent	Absent	Absent	Absent	Absent								Absent
Total Trihalomethanes, mg/l	0.0145	0.0249	0.0096	0.0200	0.017								0.0172

\* In 95% of samples collected

\*\*\*Chlorine Burnout, no ammonia added

Certified By: Vannessa Barnes

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