



EM Johnson Water Plant Monthly Quality Report March, 2020

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	14.1		
Color, units	0.2		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.18		
Total Alkalinity, mg/l as CaCO ₃	23.6		
Total Hardness, mg/l as CaCO ₃	20.8		
Total Dissolved Solids, mg/l	126		
Specific Conductivity, uS/cm	192		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	0.01		0.05
Fluoride, mg/l	0.78		4
Chloride, mg/l	10.5		
Ammonia, mg/l as N	***		
Nitrate, mg/l as N	<0.10	10	
Silica, mg/l as SiO ₃	8.90		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.010	0.080	

* In 95% of samples collected

**MCL = Maximum Contaminant Level

***Chlorine Burnout, no ammonia added

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										12.4
Color, units	1	0.5	0.2										0.6
pH, units	8.4	8.4	8.4										8.4
Free Carbon Dioxide, mg/l	0.22	0.22	0.18										0.21
Total Alkalinity, mg/l as CaCO ₃	30.8	27.4	23.6										27.3
Total Hardness, mg/l as CaCO ₃	27.1	26.3	20.8										24.7
Total Dissolved Solids, mg/l	137	139	126										134
Specific Conductivity, uS/cm	206	210	192										203
Iron, mg/l	0.01	0.00	<0.10										0.01
Manganese, mg/l	<0.01	0.01	0.01										<0.01
Fluoride, mg/l	0.82	0.78	0.78										0.79
Chloride, mg/l	12.6	13.5	10.5										12.2
Ammonia, mg/l as N	0.53	0.54	***										0.5
Nitrate, mg/l as N	0.29	0.17	<0.10										0.23
Silica, mg/l as SiO ₃	9.40	8.3	8.90										8.87
Total Coliform Bacteria*	Absent	Absent	Absent										Absent
E. Coli	Absent	Absent	Absent										Absent
Total Trihalomethanes, mg/l	0.0145	0.0249	0.0096										0.0163

* In 95% of samples collected

***Chlorine Burnout, no ammonia added

Certified By: Vannessa Barnes

Vannessa Barnes, Laboratory Scientist Supervisor

NC Lab ID Number 37604