



EM Johnson WTP Monthly Water Quality Report March 2022

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	13.9		
Color, units	1.2		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.23		
Total Alkalinity, mg/l as CaCO ₃	28.6		
Total Hardness, mg/l as CaCO ₃	27.9		
Total Dissolved Solids, mg/l	109		500
Specific Conductivity, uS/cm	223		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.71	4	2
Chloride, mg/l	15.2		250
Ammonia, mg/l as N	***		
Nitrate, mg/l as N	0.08	10	
Silica, mg/l as SiO ₃	4.50		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.006	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

*Raleigh Water: Serving the people of Garner, Knightdale, Raleigh, Rolesville,
Wake Forest, Wendell, and Zebulon areas.*

One Exchange Plaza Building | 1 Exchange Plaza | Suite 600 | Raleigh, North Carolina 27601
City of Raleigh (mailing address) | Post Office Box 590 | Raleigh, North Carolina 27602-0590

EM Johnson WTP Finished Water Quality Report 2022 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	11.7	8.40	13.9										11.3
Color, units	1.0	0.5	1.2										0.9
pH, units	8.4	8.4	8.4										8.4
Free Carbon Dioxide, mg/l	0.23	0.22	0.23										0.23
Total Alkalinity, mg/l as CaCO ₃	30.6	27.6	28.6										28.9
Total Hardness, mg/l as CaCO ₃	27.6	27.9	27.9										27.8
Total Dissolved Solids, mg/l	97	102	109										103
Specific Conductivity, uS/cm	199	208	223										210
Iron, mg/l	<0.10	<0.10	<0.10										<0.10
Manganese, mg/l	<0.01	<0.01	<0.01										<0.01
Fluoride, mg/l	0.62	0.73	0.71										0.69
Chloride, mg/l	17.4	14.5	15.2										15.7
Ammonia, mg/l as N	0.60	0.57	***										0.6
Nitrate, mg/l as N	0.24	0.21	0.08										0.18
Silica, mg/l as SiO ₃	6.10	7.10	4.50										5.90
Total Coliform Bacteria	Absent	Absent	Absent										Absent
E. Coli	Absent	Absent	Absent										Absent
Total Trihalomethanes, mg/l	0.0056	0.0136	0.0060										0.0084

***Chlorine Burnout, no ammonia added

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