



EM Johnson WTP Monthly Finished Water Quality Report April 2022

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	19.9		
Color, units	0.0		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.22		
Total Alkalinity, mg/l as CaCO ₃	27.8		
Total Hardness, mg/l as CaCO ₃	26.9		
Total Dissolved Solids, mg/l	118		500
Specific Conductivity, uS/cm	239		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.69	4	2
Chloride, mg/l	18.0		250
Ammonia, mg/l as N	0.49		
Nitrate, mg/l as N	0.08	10	
Silica, mg/l as SiO ₃	1.90		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.011	0.080	

* In 95% of samples collected

**MCL = Maximum Contaminant Level

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.*

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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	19.9									13.5
Color, units	1.0	0.5	1.2	0									0.7
pH, units	8.4	8.4	8.4	8.4									8.4
Free Carbon Dioxide, mg/l	0.23	0.22	0.23	0.22									0.23
Total Alkalinity, mg/l as CaCO ₃	30.6	27.6	28.6	27.8									28.7
Total Hardness, mg/l as CaCO ₃	27.6	27.9	27.9	26.9									27.6
Total Dissolved Solids, mg/l	97	102	109	118									107
Specific Conductivity, uS/cm	199	208	223	239									217
Iron, mg/l	<0.10	<0.10	<0.10	<0.10									<0.10
Manganese, mg/l	<0.01	<0.01	<0.01	<0.01									<0.01
Fluoride, mg/l	0.62	0.73	0.71	0.69									0.69
Chloride, mg/l	17.4	14.5	15.2	18.0									16.3
Ammonia, mg/l as N	0.60	0.57	***	0.49									0.6
Nitrate, mg/l as N	0.24	0.21	0.08	0.08									0.15
Silica, mg/l as SiO ₃	6.10	7.10	4.50	1.90									4.90
Total Coliform Bacteria	Absent	Absent	Absent	Absent									Absent
E. Coli	Absent	Absent	Absent	Absent									Absent
Total Trihalomethanes, mg/l	0.0056	0.0136	0.0060	0.0110									0.0091

***Chlorine Burnout, no ammonia added

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