



EM Johnson WTP Monthly Finished Water Quality Report May 2025

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	26.2		
Color, units	0.0		15
pH, units	8.39		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.20		
Total Alkalinity, mg/l as CaCO ₃	24.0		
Total Hardness, mg/l as CaCO ₃	28.1		
Specific Conductivity, uS/cm	182		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.67	4	2
Chloride, mg/l	14.2		250
Ammonia, mg/l as N	0.42		
Nitrate, mg/l as N	0.057	10	
Silica, mg/l as SiO ₃	5.5		
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

***Chlorine Burnout, no ammonia added

Certified By: Martesa Webb

Martesa Webb, 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 2025 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	12.2	14.0	17.2	22.9	26.2								18.5
Color, units	1.3	0.0	0.0	0.6	0.0								0.4
pH, units	8.4	8.4	8.3	8.4	8.4								8.4
Free Carbon Dioxide, mg/l	0.17	0.17	0.23	0.20	0.2								0.19
Total Alkalinity, mg/l as CaCO ₃	21.3	21.0	24.7	24.2	24.0								23.0
Total Hardness, mg/l as CaCO ₃	22.8	23.4	25.7	25.1	28.1								25.0
Specific Conductivity, uS/cm	176	176.5	194.1	192	182								184
Iron, mg/l	<0.10	<0.10	<0.10	<0.10	<0.10								<0.10
Manganese, mg/l	<0.01	<0.01	<0.01	<0.01	<0.01								<0.01
Fluoride, mg/l	0.62	0.42	0.73	0.74	0.67								0.64
Chloride, mg/l	10.0	10.2	13.0	13.7	14.2								12.2
Ammonia, mg/l as N	0.63	0.50	***	0.59	0.42								0.54
Nitrate, mg/l as N	0.22	0.22	0.15	0.05	0.06								0.14
Silica, mg/l as SiO ₃	9.58	7.90	7.30	6.60	5.50								7.38
Total Coliform Bacteria	Absent	Absent	Absent	Absent	Absent								Absent
E. Coli	Absent	Absent	Absent	Absent	Absent								Absent
Total Trihalomethanes, mg/l	0.011	0.013	0.010	0.011	0.011								0.011

***Chlorine Burnout, no ammonia added

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