



EM Johnson WTP Monthly Finished Water Quality Report August 2025

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	28.7		
Color, units	0.0		15
pH, units	8.36		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.21		
Total Alkalinity, mg/l as CaCO ₃	23.7		
Total Hardness, mg/l as CaCO ₃	23.5		
Specific Conductivity, uS/cm	167		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.70	4	2
Chloride, mg/l	10.7		250
Ammonia, mg/l as N	0.43		
Nitrate, mg/l as N	0.099	10	
Silica, mg/l as SiO ₃	7.7		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.027	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	28.9	30.8	28.7					22.6
Color, units	1.3	0.0	0.0	0.6	0.0	0.0	1.4	0.0					0.4
pH, units	8.4	8.4	8.3	8.4	8.4	8.4	8.4	8.4					8.4
Free Carbon Dioxide, mg/l	0.17	0.17	0.23	0.20	0.20	0.23	0.21	0.21					0.20
Total Alkalinity, mg/l as CaCO ₃	21.3	21.0	24.7	24.2	24.0	26.7	26.9	23.7					24.1
Total Hardness, mg/l as CaCO ₃	22.8	23.4	25.7	25.1	28.1	30.2	30.5	23.5					26.2
Specific Conductivity, uS/cm	176	176.5	194.1	192	182	192	190	167					184
Iron, mg/l	<0.10	<0.10	<0.10	<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	<0.01	<0.01					<0.01
Fluoride, mg/l	0.62	0.42	0.73	0.74	0.67	0.69	0.66	0.7					0.65
Chloride, mg/l	10.0	10.2	13.0	13.7	14.2	14.7	14.1	10.7					12.6
Ammonia, mg/l as N	0.63	0.50	***	0.59	0.42	0.44	0.65	0.43					0.52
Nitrate, mg/l as N	0.22	0.22	0.15	0.05	0.06	0.05	0.06	0.099					0.11
Silica, mg/l as SiO ₃	9.58	7.90	7.30	6.60	5.50	5.00	6.70	7.70					7.04
Total Coliform Bacteria	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent					Absent
E. Coli	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent					Absent
Total Trihalomethanes, mg/l	0.011	0.013	0.010	0.011	0.011	0.016	0.029	0.027					0.016

***Chlorine Burnout, no ammonia added

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