



EM Johnson WTP Monthly Finished Water Quality Report September 2024

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	26.4		
Color, units	1.0		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.22		
Total Alkalinity, mg/l as CaCO ₃	26.9		
Total Hardness, mg/l as CaCO ₃	25.0		
Specific Conductivity, uS/cm	212		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.08	4	2
Chloride, mg/l	10.0		250
Ammonia, mg/l as N	0.34		
Nitrate, mg/l as N	0.07	10	
Silica, mg/l as SiO ₃	7.7		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.0269	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.*

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 2024 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	9.8	10.3	16.4	19.1	25.7	27.7	30.2	28.7	26.4				21.6
Color, units	0.8	0.0	0.0	0.4	0.0	0.0	0.0	0.3	1.0				0.3
pH, units	8.4	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4				8.4
Free Carbon Dioxide, mg/l	0.20	0.13	0.18	0.17	0.18	0.22	0.20	0.22	0.22				0.19
Total Alkalinity, mg/l as CaCO ₃	26.3	19.5	21.9	21.4	22.8	24.9	26.3	26.9	26.9				24.1
Total Hardness, mg/l as CaCO ₃	26.0	22.8	22.4	23.3	29.1	27.2	26.5	24.2	25				25.2
Specific Conductivity, uS/cm	204	207	202	196	190	183	180	199	212				197
Iron, mg/l	<0.10	<0.10	<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	<0.01			<0.01
Fluoride, mg/l	0.08	0.07	0.07	0.07	0.12	0.13	0.12	0.08	0.08				0.09
Chloride, mg/l	12.6	9.9	10.0	10.5	13.5	9.8	14.0	10.2	10.0				11.2
Ammonia, mg/l as N	0.53	0.61	***	0.46	0.49	0.40	0.50	0.47	0.34				0.48
Nitrate, mg/l as N	0.28	0.23	0.24	0.17	0.08	<0.10	<0.10	<0.10	0.07				0.18
Silica, mg/l as SiO ₃	7.40	6.90	6.80	6.30	5.10	10.5	5.90	8.10	7.70				7.19
Total Coliform Bacteria	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent			Absent
E. Coli	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent			Absent
Total Trihalomethanes, mg/l	0.018	0.006	0.022	0.0270	0.015	0.020	0.031	0.0214	0.0269				0.021

***Chlorine Burnout, no ammonia added

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