



EM Johnson WTP Monthly Finished Water Quality Report July 2022

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	26.8		
Color, units	0.3		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.21		
Total Alkalinity, mg/l as CaCO ₃	28.5		
Total Hardness, mg/l as CaCO ₃	27.3		
Total Dissolved Solids, mg/l	102		500
Specific Conductivity, uS/cm	209		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.70	4	2
Chloride, mg/l	14.3		250
Ammonia, mg/l as N	0.53		
Nitrate, mg/l as N	0.07	10	
Silica, mg/l as SiO ₃	3.70		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.021	0.080	

* In 95% of samples collected

**MCL = Maximum Contaminant Level

Certified By:

DocuSigned by:
Martesa Webb
EBC04F36546B432...

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 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	22.3	27.5	26.8						18.6
Color, units	1.0	0.5	1.2	0	0.4	0.5	0.3						0.6
pH, units	8.4	8.4	8.4	8.4	8.4	8.4	8.4						8.4
Free Carbon Dioxide, mg/l	0.23	0.22	0.23	0.22	0.22	0.22	0.21						0.22
Total Alkalinity, mg/l as CaCO ₃	30.6	27.6	28.6	27.8	27.2	28.5	28.5						28.4
Total Hardness, mg/l as CaCO ₃	27.6	27.9	27.9	26.9	27.4	28.3	27.3						27.6
Total Dissolved Solids, mg/l	97	102	109	118	108	105	102						106
Specific Conductivity, uS/cm	199	208	223	239	221	214	209						216
Iron, mg/l	<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
Fluoride, mg/l	0.62	0.73	0.71	0.69	0.66	0.68	0.70						0.68
Chloride, mg/l	17.4	14.5	15.2	18.0	16.2	14.6	14.3						15.7
Ammonia, mg/l as N	0.60	0.57	***	0.49	0.52	0.49	0.53						0.5
Nitrate, mg/l as N	0.24	0.21	0.08	0.08	0.09	0.06	0.07						0.12
Silica, mg/l as SiO ₃	6.10	7.10	4.50	1.90	2.10	2.90	3.70						4.04
Total Coliform Bacteria	Absent	Absent	Absent	Absent	Absent	Absent	Absent						Absent
E. Coli	Absent	Absent	Absent	Absent	Absent	Absent	Absent						Absent
Total Trihalomethanes, mg/l	0.0056	0.0136	0.0060	0.0110	0.0122	0.0187	0.021						0.0126

***Chlorine Burnout, no ammonia added

Certified By:

DocuSigned by:

Martesa Webb

ED664F36546B432...

Martesa Webb, Laboratory Scientist Supervisor

NC Lab ID Number 37604