



EM Johnson WTP Monthly Finished Water Quality Report December 2023

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	12.8		
Color, units	0.0		15
pH, units	8.4		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.26		
Total Alkalinity, mg/l as CaCO ₃	32.6		
Total Hardness, mg/l as CaCO ₃	29.1		
Total Dissolved Solids, mg/l	99		500
Specific Conductivity, uS/cm	202		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.55	4	2
Chloride, mg/l	13.2		250
Ammonia, mg/l as N	0.62		
Nitrate, mg/l as N	0.22	10	
Silica, mg/l as SiO ₃	8.1		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.018	0.080	

* In 95% of samples collected

**MCL = Maximum Contaminant Level

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 2023 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	10.1	11.8	14.7	18.8	21.8	24.7	29.2	29.4	26.9	21.5	18.0	12.8	20.0
Color, units	0.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
pH, units	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Free Carbon Dioxide, mg/l	0.24	0.24	0.23	0.20	0.23	0.21	0.23	0.23	0.27	0.27	0.29	0.26	0.24
Total Alkalinity, mg/l as CaCO ₃	30.0	30.7	28.6	26.3	26.6	27.5	28.1	28.9	32.1	35.8	37.1	32.6	30.4
Total Hardness, mg/l as CaCO ₃	27.8	29.3	28.9	28.9	25.3	28.0	26.7	26.7	26.1	28.6	29.6	29.1	27.9
Total Dissolved Solids, mg/l	103	109	104	99	94	96	94	105	109	106	105	99	102
Specific Conductivity, uS/cm	210	223	213	203	192	197	193	214	223	215	215	202	208
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	<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	<0.01	<0.01
Fluoride, mg/l	0.73	0.74	0.74	0.70	0.73	0.73	0.80	0.78	0.78	0.74	0.67	0.55	0.72
Chloride, mg/l	15.0	14.9	14.5	12.7	11.2	11.2	11.4	11.5	11.3	11.4	13.0	13.2	12.6
Ammonia, mg/l as N	0.52	0.47	***	0.39	0.55	0.53	0.74	0.91	0.59	0.82	0.52	0.62	0.6
Nitrate, mg/l as N	0.23	0.13	0.11	0.07	0.04	0.04	0.05	0.05	0.05	0.06	0.10	0.22	0.10
Silica, mg/l as SiO ₃	8.30	7.80	7.90	6.00	5.40	6.00	6.00	6.20	6.60	7.40	7.90	8.10	6.97
Total Coliform Bacteria	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
E. Coli	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Total Trihalomethanes, mg/l	0.013	0.0057	0.0296	0.0196	0.0130	0.0155	0.0281	0.041	0.0249	0.0124	0.0108	0.018	0.0193

***Chlorine Burnout, no ammonia added

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