



EM Johnson WTP Monthly Water Quality Report December 2020

Parameter	Plant Tap	Primary MCL **	Secondary MCL **
Temperature, °C	12.1		
Color, units	1.6		15
pH, units	8.5		6.5 - 8.5
Free Carbon Dioxide, mg/l	0.18		
Total Alkalinity, mg/l as CaCO ₃	25.3		
Total Hardness, mg/l as CaCO ₃	22.5		
Total Dissolved Solids, mg/l	121		
Specific Conductivity, uS/cm	181		
Iron, mg/l	<0.10		0.3
Manganese, mg/l	<0.01		0.05
Fluoride, mg/l	0.61		4
Chloride, mg/l	11.1		
Ammonia, mg/l as N	0.54		
Nitrate, mg/l as N	0.18	10	
Silica, mg/l as SiO ₃	8.60		
Total Coliform Bacteria*	Absent	0	
E. Coli	Absent	0	
Total Trihalomethanes, mg/l	0.0089	0.080	

* In 95% of samples collected

**MCL = Maximum Contaminant Level

Certified By: *Vannessa Barnes*

Vannessa Barnes, 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 Water Quality Report 2020 Plant Tap Summary

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
Temperature, °C	11.6	11.6	14.1	18.5	20.7	25.0	29.5	29.3	26.1	21.8	18.0	12.1	19.9
Color, units	1	0.5	0.2	0.8	1.3	0.2	1	0.3	2.8	0.0	1.3	1.6	0.9
pH, units	8.4	8.4	8.4	8.4	8.4	8.5	8.4	8.4	8.4	8.4	8.4	8.5	8.4
Free Carbon Dioxide, mg/l	0.22	0.22	0.18	0.15	0.19	0.16	0.19	0.19	0.22	0.23	0.23	0.18	0.20
Total Alkalinity, mg/l as CaCO ₃	30.8	27.4	23.6	21.5	23.6	23.9	25.1	26.5	28.7	30.5	27.4	25.3	26.2
Total Hardness, mg/l as CaCO ₃	27.1	26.3	20.8	21.8	24.9	23.3	24.3	23.4	23.7	23	24	22.5	23.8
Total Dissolved Solids, mg/l	137	139	126	117	122	121	123	127	126	128	126	121	126
Specific Conductivity, uS/cm	206	210	192	175	182	182	188	190	185	194	188	181	189
Iron, mg/l	0.01	0.00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.01
Manganese, mg/l	<0.01	0.01	0.01	0.01	0.01	0.01	0.010	0.01	0.01	<0.01	<0.01	<0.01	<0.01
Fluoride, mg/l	0.82	0.78	0.78	0.73	0.75	0.52	0.74	0.75	0.35	0.61	0.59	0.61	0.67
Chloride, mg/l	12.6	13.5	10.5	10.1	11.1	11.2	11.8	11.6	11.4	11.7	11.6	11.1	11.5
Ammonia, mg/l as N	0.53	0.54	***	0.50	0.57	0.61	0.54	0.52	0.56	0.54	0.55	0.54	0.5
Nitrate, mg/l as N	0.29	0.17	<0.10	0.10	0.05	0.08	0.09	0.09	0.08	0.11	0.15	0.18	0.13
Silica, mg/l as SiO ₃	9.40	8.3	8.90	8.10	7.00	6.80	7.60	8.1	6.50	8.90	8.90	8.60	8.09
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	0.0145	0.0249	0.0096	0.0200	0.017	0.0179	0.028	0.036	0.0280	0.028	0.012	0.0089	0.0204

* In 95% of samples collected

***Chlorine Burnout, no ammonia added
Fluoride Shut Off Sept 11th - Sept 30th

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