

# TenneSwim – Results

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	Temperature (°C)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	COD (mg/L)	Nitrate (mg/L)	Phosphate (mg/L)	Mile
07/27/17	23.5	7.8	144	1.5	5.35	6.5	0.39	< 0.05	652
07/28/17	24.9	8	215	3	7.1	7	0.38	< 0.05	632
07/29/17	28.4	9	196	3	7.89	> 40	< 0.3	0.1	613
07/30/17	25.8	7.9	175	2	5.6	5.5	< 0.3	< 0.05	596
07/31/17	26.2	8	184	2.5	5.46	7	< 0.3	< 0.05	565.5
08/01/17	28.1	9.1	188	2	5.1	8	< 0.3	< 0.05	550
08/02/17	27	8	192	1	5.31	5.5	< 0.3	< 0.05	524
08/03/17	27.4	7.8	192	2	5.15	> 40	< 0.3	< 0.05	499
08/04/17	28.4	8.3	195	3	6.5	25	< 0.3	< 0.05	470
08/05/17	27.5	8.3	198	2	5.5	13.5	< 0.3	< 0.05	460
08/06/17	NO SWIMMING								
08/07/17	28.3	8.6	197	2.5	5.3	6.5	0.66	0.07	442
08/08/17	29	8	196	2.5	5.6	11	0.44	0.16	424
08/09/17	28.3	8.2	200	1.5	5.39	11	0.67	0.1	400
08/10/17	28.1	8.1	212	2	5.55	8	0.76	0.14	378
08/11/17	28.1	8.5	196	3.5	6.41	8.5	0.3	0.12	359
08/12/17	28	8.4	168	9.5	5.99	11	0.55	0.16	338
08/13/17	29.2	7.8	173	< 1	5.37	13	0.4	0.1	318
08/14/17	28.1	8	179	< 1	5.02	3	0.33	0.11	305
08/15/17	29.0	8.6	189	< 1	5.67	8	< 0.3	0.45	277
08/16/17	28.5	8.1	185	< 1	4.5	6.5	< 0.3	0.27	253
08/17/17	28.7	8	175	< 1	4.6	7.5	0.61	0.15	236

Green fields indicate minimum values measured; orange fields maximum values. Note that low values are not necessarily better than higher values.

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08/18/17	28.8	7.9	183	3	4.43	1	0.42	0.12	216
08/19/17	29.4	8.1	183	1	4.4	7	0.94	0.12	196
08/20/17	29.7	8.1	185	1.5	3.9	8	0.48	0.1	174
08/21/17	30.1	8.1	185	2.5	3.49	6	0.95	0.14	155
08/22/17	30.2	8.3	185	3	3.35	6.5	0.65	0.26	131
08/23/17	29.4	8.1	185	2	4.1	9.5	0.43	0.09	115
08/24/17	28.4	8.4	196	0.5	3.8	8	< 0.3	0.1	94
08/25/17	28.2	8.1	193	2	4.45	10	< 0.3	0.09	73
08/26/17	27.6	8.1	180	1.5	3.66	11	< 0.3	0.12	56
08/27/17	27.7	8	177	2.5	3.3	8	< 0.3	0.1	38
08/28/17	27.7	8.4	167		3.48				19
08/29/17	27.6	8.1	176	3	3.88	10.5	< 0.3	0.11	3
Ohio River (08/29/2017)	27.7	8.8	349	11.5	3.7	11.5	0.39	0.11	934

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TN criteria for the use of <b>Domestic Water Supply</b>	≤ 30.5 °C / 3 °C relative to an upstream control point	Between 6.0 and 9.0	(1)	(2)	(2)	(1)	≤ 10.0 mg/L	(2)
TN criteria for the use of <b>Recreation</b>	≤ 30.5 °C / 3 °C relative to an upstream control point	Between 6.0 and 9.0	(1)	(2)	(2)	(1)	(2)	(2)
TN criteria for the use of <b>Fish and Aquatic Life</b>	≤ 30.5 °C / 3 °C relative to an upstream control point (exceptions exist)	Between 6.0/6.5 and 9.0, depending on the type of water body	(1)	(2)	≥ 5.0 mg/L (exceptions exist)	(1)	(2)	(2)
AL criteria for the use of <b>Public Water Supply</b>	≤ 90 °F (32.2 °C) (exceptions exist)	Between 6.0 and 8.5	(1)	≤ 50 NTU above natural conditions	≥ 5.0 mg/L (exceptions exist)	(1)	(2)	(2)
AL criteria for the use of <b>Swimming and Other Whole Body Water-Contact Sports</b>	≤ 90 °F (32.2 °C) (exceptions exist)	Between 6.0/6.5 and 8.5, depending on the type of water body	(1)	≤ 50 NTU above natural conditions	≥ 5.0 mg/L (exceptions exist)	(1)	(2)	(2)
AL criteria for the use of <b>Fish and Wildlife</b>	≤ 90 °F (32.2 °C) (exceptions exist)	Between 6.0/6.5 and 8.5, depending on the type of water body	(1)	≤ 50 NTU above natural conditions	≥ 5.0 mg/L (exceptions exist)	(1)	(2)	(2)

(1) No existing regulations; (2) No numerical threshold value

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MS criteria for the use of <b>Public Water Supply</b>	≤ 5 °F (2.8° C) above natural temperatures; ≤ 86 °F (30 °C) in the Tennessee River	Between 6.0 and 9.0 (exceptions exist)	≤500 µS/cm (500 µS/cm) in freshwater streams	≤ 50 NTU above natural conditions (exceptions exist)	≥ 5.0 mg/L; instantaneous minimum of 4.0 mg/L	(1)	≤ 10.0 mg/L	(2)
MS criteria for the use of <b>Recreation</b>	≤ 5 °F (2.8° C) above natural temperatures; ≤ 86 °F (30 °C) in the Tennessee River	Between 6.0 and 9.0 (exceptions exist)	≤500 µS/cm (500 µS/cm) in freshwater streams	≤ 50 NTU above natural conditions (exceptions exist)	≥ 5.0 mg/L; instantaneous minimum of 4.0 mg/L	(1)	(2)	(2)
MS criteria for the use of <b>Fish and Wildlife</b>	≤ 5 °F (2.8° C) above natural temperatures; ≤ 86 °F (30 °C) in the Tennessee River	Between 6.0 and 9.0 (exceptions exist)	≤500 µS/cm (500 µS/cm) in freshwater streams	≤ 50 NTU above natural conditions (exceptions exist)	≥ 5.0 mg/L; instantaneous minimum of 4.0 mg/L	(1)	(2)	(2)
KY criteria for the use of <b>Domestic Water Supply</b>	(1)	(1)	(1)	(2)	(1)	(1)	≤ 10,000 µg/L (10.0 mg/L)	(2)
KY criteria for the use of <b>Recreation</b>	(1)	Between 6.0 and 9.0	(1)	(2)	(1)	(1)	(2)	(2)
KY criteria for the use of <b>Aquatic Life</b>	≤ 31.7 °C (89 °F); shall not be increased above natural temperatures	Between 6.0 and 9.0	(2)	(2)	≥ 5.0 mg/L; instantaneous minimum of 4.0 mg/L (exceptions exist)	(1)	(2)	(2)

(1) No existing regulations; (2) No numerical threshold value