**Section 302.535 Ammonia Nitrogen**

The Open Waters of Lake Michigan as defined in Section 302.501 must not exceed 0.02 mg/L total ammonia (as N). The remaining waters of the Lake Michigan Basin are subject to the following:

a) Total ammonia nitrogen (as N) must in no case exceed 15 mg/L.

b) Un-ionized ammonia nitrogen (as N) must not exceed the acute and chronic standards given below subject to the provisions of Section 302.208(a) and (b):

1) From April through October, the Acute Standard (AS) must be 0.33 mg/L and the chronic standard (CS) must be 0.057 mg/L.

2) From November through March, the AS must be 0.14 mg/L and the CS must be 0.025 mg/L.

c) For this Section, the concentration of un-ionized ammonia nitrogen as N and total ammonia as N must be computed according to the following equations:

|  |  |  |
| --- | --- | --- |
| U | = | N |
| [0.94412(1 + 10x) + 0.0559] |

and N = U[0.94412(1 + 10x) + 0.0559]

Where:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | = | 0.09018 | + | 2729.92 | -pH |
| (T + 273.16) |
| U | = | Concentration of un-ionized ammonia as N in mg/L | | | |
| N | = | Concentration of ammonia nitrogen as N in mg/L | | | |
| T | = | Temperature in degrees Celsius. | | | |

(Source: Amended at 47 Ill. Reg. 4437, effective March 23, 2023)