STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

Correction: Revision to Idaho's Ammonia Criteria for Cold Water Aquatic Life

The acute (CMC) equation included in the technical justification document and presentation from the first negotiated rulemaking meeting contained two simplification errors in the proposed acute criteria equation. DEQ will be replacing the erroneous equation with a corrected one in the technical report, the draft rule language will be updated for the next negotiated rulemaking meeting.

The acute criteria equation presented on 8/10/2026 which is not correct:

$$CMC = MIN\left(\begin{array}{c}\left(\frac{0.275}{1+10^{7.204-pH}}+\frac{39.0}{1+10^{pH-7.204}}\right), \\ \left(\frac{\sout{0.4011}}{1+10^{7.204-pH}}+\frac{\sout{40.9144}}{1+10^{pH-7.204}}\right)\times 10^{0.036\times(20-T)}\end{array}\right)$$

Equation 5. Acute Criteria Equation for Protection of All Idaho Species

The corrected criteria equation:

$$CMC = MIN\left(\begin{array}{c}\left(\frac{0.275}{1+10^{7.204-pH}}+\frac{39.0}{1+10^{pH-\ .204}}\right), \\ \left(\frac{0.4015}{1+10^{7.204-pH}}+\frac{56.98}{1+10^{pH-7.204}}\right)\times 10^{0.036\times(20-T)}\end{array}\right)$$

Equation 5. Acute Criteria Equation for Protection of All Idaho Species

The acute criteria table presented included in Appendix B in the technical report is not affected by this correction and will remain unchanged, however the table included in the presentation is not accurate. Please refer to the table in Appendix B of the technical report, which is also included on the next page.

As a reminder, the second negotiated rulemaking meeting will take place on October 6th at 10am. Feedback and questions on this correction or other materials can be directed to Gunnar Hilborn (gunnar.hilborn@deq.idaho.gov).

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Acute Criteria at Selected pH and Temperature Conditions

	Temperature (°C)								
pH	**0-22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
6.5	33	33	33	31	29	27	25	23	21
6.6	31	31	31	30	28	26	24	22	20
6.7	30	30	30	29	26	24	22	21	19
6.8	28	28	28	27	25	23	21	19	18
6.9	26	26	26	25	23	21	20	18	17
7.0	24	24	24	23	21	20	18	17	15
7.1	22	22	22	21	20	18	17	15	14
7.2	20	20	20	19	18	16	15	14	13
7.3	18	18	18	17	16	14	13	12	11
7.4	15	15	15	15	14	13	12	11	10
7.5	13	13	13	13	12	11	10	9.2	8.5
7.6	11	11	11	11	10	9.3	8.6	7.9	7.3
7.7	10	10	10	9.3	8.6	7.9	7.3	6.7	6.2
7.8	8.1	8.1	8.1	7.8	7.2	6.6	6.1	5.6	5.2
7.9	6.8	6.8	6.8	6.5	6.0	5.5	5.1	4.7	4.3
8.0	5.6	5.6	5.6	5.4	5.0	4.6	4.2	3.9	3.6
8.1	4.6	4.6	4.6	4.5	4.1	3.8	3.5	3.2	3.0
8.2	3.8	3.8	3.8	3.7	3.4	3.1	2.9	2.7	2.4
8.3	3.1	3.1	3.1	3.0	2.8	2.6	2.4	2.2	2.0
8.4	2.6	2.6	2.6	2.5	2.3	2.1	2.0	1.8	1.7
8.5	2.1	2.1	2.1	2.1	1.9	1.7	1.6	1.5	1.4
8.6	1.8	1.8	1.8	1.7	1.6	1.4	1.3	1.2	1.1
8.7	1.5	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.94
8.8	1.2	1.2	1.2	1.2	1.1	1.0	0.93	0.85	0.79
8.9	1.0	1.0	1.0	1.0	0.92	0.85	0.78	0.72	0.66
9.0	0.88	0.88	0.88	0.85	0.79	0.72	0.67	0.61	0.56

Notes: Criteria expressed as mg TAN/L. The 1-hour average concentration of a waterbody is not to exceed the criterion value more than once every 3 years.