

**7052.0110 METHODOLOGIES FOR DEVELOPMENT OF TIER I AND TIER II STANDARDS AND CRITERIA, AND BIOACCUMULATION FACTORS.**

Subpart 1. **Applicability.** This part identifies the methods that must be used to develop Tier I and Tier II standards and criteria. Subparts 3 and 4 also list exceptions to some of the assumptions used in the GLI Guidance methods. These exceptions are based on Minnesota-specific data.

Subp. 2. **Aquatic life.** All Tier I and Tier II aquatic life standards were developed and all criteria must be developed using the methodologies provided by Code of Federal Regulations, title 40, part 132, Appendix A, entitled "Great Lakes Water Quality Initiative Methodologies for Development of Aquatic Life Criteria and Values," as amended through March 12, 1997, which is adopted and incorporated by reference in part 7052.0015, item A.

Subp. 3. **Bioaccumulation factors.** Bioaccumulation factors (BAFs) for calculating human health and wildlife standards were developed and BAFs for calculating criteria must be developed using the methodology provided by Code of Federal Regulations, title 40, part 132, Appendix B, entitled "Great Lakes Water Quality Methodology for Deriving Bioaccumulation Factors," as amended through March 12, 1997, which is adopted and incorporated by reference in part 7052.0015, item B, except that for human health standards and criteria, the baseline BAF is multiplied by the following lipid fractions which apply to fish in both trophic levels 3 and 4:

- A. 0.085 for Lake Superior;
- B. 0.06 for Class 2A waters other than Lake Superior; and
- C. 0.015 for Class 2B, 2Bd, 2C, and 2D waters.

Subp. 4. **Human health.** All Tier I and Tier II human health standards were developed and all criteria must be developed using the methodology provided by Code of Federal Regulations, title 40, part 132, Appendix C, entitled "Great Lakes Water Quality Initiative Methodology for Development of Human Health Criteria and Values," as amended through March 12, 1997, which is adopted and incorporated by reference in part 7052.0015, item C, except that the daily human consumption of fish caught in the Lake Superior Basin is assumed to be 0.030 kg/day (0.0072 kg/day for trophic level 3 fish plus 0.0228 kg/day for trophic level 4 fish).

Subp. 5. **Wildlife.** All Tier I wildlife standards were developed and all Tier I criteria must be developed using the methodology provided by Code of Federal Regulations, title 40, part 132, Appendix D, entitled "Great Lakes Water Quality Initiative Methodology for the Development of Wildlife Criteria," as amended through March 12, 1997, which is adopted and incorporated by reference in part 7052.0015, item D.

**Statutory Authority:** *MS s 115.03; 115.44*

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