
RELATES TO: KRS 146.200 through 146.360, 146.410 through 146.535, 146.550 through 146.570, 146.600 through 146.619, 146.990, 224.1-010, 224.1-400, 224.16-050, 224.16-070, 224.70-100 through 224.70-140, 224.71-100 through 224.71-145, 224.73-100 through 224.73-120, 40 C.F.R. 136, 33 U.S.C. 1326(a)

STATUTORY AUTHORITY: KRS 146.220, 146.241, 146.270, 146.410, 146.450, 146.460, 146.465, 224.10-100, 224.16-050, 224.16-060, 224.70-100, 224.70-110, 40 C.F.R. 131, 136, 16 U.S.C. 1531 through 1544, 33 U.S.C. 1311, 1312, 1313, 1314, 1316, 1341

NECESSITY, FUNCTION, AND CONFORMITY: KRS 224.10-100 requires the cabinet to develop and conduct a comprehensive program for the management of water resources and to provide for the prevention, abatement, and control of water pollution. This administrative regulation and 401 KAR 10:001, 10:026, 10:030, and 10:031 establish procedures to protect the surface waters of the commonwealth, and thus protect water resources. This administrative regulation establishes the commonwealth's surface water antidegradation policy, provides for withdrawals of waters not meeting water quality standards, and addresses sample collection and analytical methodology and mixing zones.

Section 1. Antidegradation Policy. (1) The purpose of 401 KAR 10:026 through 401 KAR 10:031 is to safeguard the surface waters of the commonwealth for their existing and designated uses, to prevent the creation of new pollution of these waters, and to abate existing pollution.

(2) Where the quality of surface waters exceeds that necessary to support propagation of fish, shellfish, wildlife and recreation in and on the water, that quality shall be maintained and protected unless the cabinet finds, after full satisfaction of the intergovernmental coordination and public participation provisions of the cabinet's continuing planning process required by 33 U.S.C. 1313 and 40 C.F.R. 130.5, that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located.

(a) For point source discharges, water quality shall be maintained and protected in these waters according to the procedures specified in 401 KAR 10:030, Section 1(2)(b) or (3)(b).

(b) In allowing degradation or lower water quality, the cabinet shall assure water quality adequate to protect existing uses fully.

(c) The cabinet shall assure that there shall be achieved the highest statutory and regulatory requirements for waste treatment by all new and existing point sources and that nonpoint sources of pollutants be controlled by application of all cost effective and reasonable best management practices.

(3) Water quality shall be maintained and protected in a water categorized as an outstanding national resource water according to the procedures specified in 401 KAR 10:030, Section 1(1)(b).

(4) Water quality shall be maintained and protected in those waters designated as outstanding state resource waters according to the procedures specified in 401 KAR 10:031, Section 8.

(5) If potential water quality impairment associated with a thermal discharge is involved, a successful demonstration conducted under Section 316 of the Clean Water Act, 33 U.S.C. 1326, shall be in compliance with this section.

Section 2. Withdrawal of Contaminated Water. Surface waters occasionally do not meet the criteria established in 401 KAR 10:031.

(1) Withdrawal and subsequent discharge of these waters without alteration of the physical or
A bioaccumulative chemical of concern is one that accumulates in one (1) or more aquatic organisms by a human health bioaccumulation factor of greater than 1,000.
2. For the purposes of this administrative regulation, bioaccumulative chemicals of concern shall consist of the following:
   a. alpha-Hexachlorocyclohexane;
   b. beta-Hexachlorocyclohexane;
   c. Chlordane;
   d. DDD;
   e. DDE;
   f. DDT;
   g. delta-Hexachlorocyclohexane;
   h. Dieldrin;
   i. Hexachlorobenzene;
   j. Hexachlorobutadiene;
   k. Hexachlorocyclohexane;
   l. Lindane;
   m. Mercury;
   n. Mirex;
   o. Octachlorostyrene;
   p. PCBs;
   q. Pentachlorobenzene;
   r. Photomirex;
   s. Toxaphene;
   t. 1,2,3,4-Tetrachlorobenzene;
   u. 1,2,4,5-Tetrachlorobenzene; and
   v. 2,3,7,8-TCDD (Dioxin).

(2) Concentrations of toxic substances that exceed the acute criteria for protection of aquatic life in 401 KAR 10:031 shall not exist within an assigned mixing zone or in the discharge itself unless a zone of initial dilution is assigned.
   (a) A zone of initial dilution shall be assigned pursuant to subsection (3) of this section.
   (b) Chronic criteria for the protection of aquatic life and criteria for the protection of human health regarding the consumption of fish tissue shall be met at the edge of the assigned mixing zone.

(3) The following requirements shall apply to a zone of initial dilution:
   (a) The cabinet shall require an applicant to provide a technical evaluation for a zone of initial dilution;
   (b) Concentrations of toxic substances shall not exceed the acute criteria for the protection of aquatic life at the edge of the assigned zone of initial dilution, except, numeric acute criteria may be exceeded within the zone if the frequency and duration of exposure of aquatic organisms are not sufficient to cause acute toxicity; and
   (c) Unless assigned on or before December 8, 1999, a zone of initial dilution for a pollutant shall not be allowed in an exceptional water.

(4) Unless assigned on or before July 6, 2009, a zone of initial dilution for a pollutant shall be available only to a submerged high-rate multiport outfall structure and shall be limited in size to the most restrictive of the acute criteria which shall be met:
   (a) Within ten (10) percent of the distance from the edge of the outfall structure to the edge of the regulatory mixing zone in a spatial direction;
   (b) Within a distance of fifty (50) times the square root of the cross-sectional area of a discharge port, in a spatial direction; or
   (c) In a horizontal direction within a distance of five (5) times the natural water depth that
prevails under mixing zone design conditions, and exists before the installation of a discharge outlet. (5 Ky.R. 827; 6 Ky.R. 341; eff. 12-5-1979; 11 Ky.R. 1141; 1380; eff. 4-9-1985; 16 Ky.R. 833; 1367; 2676; eff. 5-31-1990; 2257; 2676; eff. 7-11-1990; 26 Ky.R. 141; 815; 1141; eff. 12-8-1999; 30 Ky.R. 1021; 31 Ky.R. 556; eff. 9-8-2004; TAm eff. 8-9-2007, Recodified from 401 KAR 5:029, 6-11-2008; 35 Ky.R.157; 904; 2721; eff. 7-6-2009; 42 Ky.R. 881; eff. 2-5-2016; 46 Ky.R. 199, 1229; eff. 1-3-2020.)