Website Record

Project/Plant for which Website was accessed: CCNPP

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Team member accessing Website: R K Kropp

Internet location of website captured (URL): http://www.dsd.state.md.us/comar/26/26.08.02.03-2.htm

Text used from website for EIS below (copy and paste below):

26.08.02.03-2

.03-2 Numerical Criteria for Toxic Substances in Surface Waters.

A. Numerical toxic substance criteria shall be applied:

(1) In intermittent streams, at the end of the discharge pipe; and

(2) In all other water bodies, at the edge of the mixing zones determined in accordance with Regulation .05C—E of this chapter.

B. Acceptable laboratory methods for the detection and measurement of toxic substances shall be specified by the Department.

C. Site-specific numerical toxic substance criteria may be developed on a site-specific basis. A person who wishes to develop a site-specific numerical toxic substance criterion shall:

(1) Do so in accordance with a scientifically defensible methodology approved by the Department; and

(2) Notify the Department of their intent not later than the time specified in COMAR 26.08.04.01-1.

D. The toxicity of certain substances in Tables 1 and 4 of §G of this regulation is increased or decreased by hardness or pH. For these toxic substances:

(1) The Department may:

(a) Require the discharger to provide site-specific measurements; or

(b) Recalculate the aquatic life criteria based on available water quality data.

(2) The permittee may voluntarily provide site-specific information for the recalculation of the criteria. It is within the Department's discretion to determine the weight given this information.

(3) After reviewing the information provided in §D(1) or (2), the Department shall determine if one or more of these criteria should be modified at a particular location.

E. In those cases where numerical toxic substance criteria for aquatic life protection and protection of human health both apply, the most restrictive of the criteria shall be used.

F. Acute and chronic numeric toxic substance criteria for fresh, estuarine, and salt water aquatic life protection and for human health protection are shown in Tables 1—4 of §G. For the instream application of the acute and chronic criteria for the protection of aquatic life in Tables 1—4 of §G of this regulation:

(1) The metals shall be measured as dissolved metal or as biologically available equivalence and may be translated to total recoverable measurements for waste load allocation to derive discharge permit limits using the procedures for the biological translator or chemical translator described in COMAR 26.08.04;

(2) The organic substances shall be measured directly or as biologically available equivalence and may be translated for waste load allocation to derive discharge permit limits using the procedures for the biological translator described in COMAR 26.08.04; and

(3) Cyanide shall be measured as either free cyanide or cyanide amenable to chlorination.

G. Tables of Ambient Water Quality Criteria.

(1) Table 1. Toxic Substances Criteria for Ambient Surface Waters-Inorganic Substances.

Substance CAS		Aquatic Life (µg/L)						Human Health for Consumption of: (Risk Level = 10^{-5}) (µg/L)	
		Fresh Water		Estuarine Water		Salt Water		Drinking Water + Organism	Organism Only
		Acute	Chronic	Acute	Chronic	Acute	Chronic		
Antimony	7440360							5.6	640
Arsenic[1]	7440382	340	150			69	36	10	41[a]
Asbestos	1332214							7 million fibers/L	
Barium	7440393							2,000	
Beryllium[3]								4	
Cadmium[1, 3]	7440439	2.0	0.25			40	8.8	5	
Chlorine[2]	7782505	19	11			13	7.5		
Chromium (total)	7440473							100	
Chromium III[1]	16065831	570	74						
Chromium VI	18540299	16	11			1100	50		
Copper[1]	7440508	13	9	6.1		4.8	3.1	1,300	
Cyanide	57125	22	5.2			1	1	700	220,000
Lead[1]	7439921	65	2.5			210	8.1		
Mercury	7439976	1.4	0.77			1.8	0.94		

Methylmercury	22967926								0.3 mg/kg
Nickel[1]	7440020	470	52			74	8.2	610	4,600
Selenium	7782492	20	5			290	71	170	4,200
Silver[1]	7440224	3.2				1.9			
Thallium	7440280							1.7	6.3
Zinc[1]	7440666	120	120			90	81	7,400	26,000

[1] Refer to §D of this regulation.

[2]The more stringent of these criteria or the discharge requirements in COMAR 26.08.03.06 shall be used as the basis for determining discharge permit limitations.

[3] The drinking water + organism criterion is the Safe Drinking Water Maximum Contaminant Level.

[a] This criterion will be applied against the actual measurement of inorganic arsenic (As+3) rather than total arsenic.