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Part 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent
Limitations

Part 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations

(Statutory authority: Environmental Conservation Law, §§ 3-0301[2][m], 15-0313, 17-0301, 17-0809)

Historical Note

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§703.1 Substance form

A water quality standard, guidance value or groundwater effluent limitation includes all (total) forms of the substance, unless indicated otherwise. Where a standard or guidance value is for a specific form of the substance, water quality-based effluent limitations for SPDES permits may include other forms of the substance to account for changes in the substance that occur in the receiving water.

Historical Note

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§703.2 Narrative water quality standards

Narrative standards for specific water classes are provided in this section. Narrative standards for classes N and AA-Special are provided in Part 701 of this Title.

<i>Parameter</i>	<i>Classes</i>	<i>Standard</i>
Taste-, color-, and odor-producing, toxic and other deleterious substances	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special, GA, GSA, GSB	None in amounts that will adversely affect the taste, color or odor thereof, or impair the waters for their best usages.
Turbidity	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special	No increase that will cause a substantial visible contrast to natural conditions.
Suspended, colloidal and settleable solids	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special	None from sewage, industrial wastes or other wastes that will cause deposition or impair the waters for their best usages.
Oil and floating substances	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special	No residue attributable to sewage, industrial wastes or other wastes, nor visible oil film nor globules of grease.
Garbage, cinders, ashes, oils, sludge and other refuse	SA, SB, SC, I, SD	None in any amounts.
Phosphorus and nitrogen	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special	None in amounts that will result in growths of algae, weeds and slimes that will impair the waters for their best usages.
Radioactivity	A-Special	Should be kept at the lowest practicable levels, and in any event should be controlled to the extent necessary to prevent harmful effects on health.
Thermal discharges	GA, GSA, GSB	None in amounts that will impair the waters for their best usages.
Thermal discharges	AA, A, B, C, D, SA, SB, SC, I, SD, A-Special	See Part 704 of this Title.
Flow	AA, A, B, C, D, A-Special	No alteration that will impair the waters for their best usages.

Historical Note

Sec. filed March 20, 1967; repealed, new filed: April 28, 1972; Aug. 2, 1978; Aug. 2, 1991; amd. filed Jan. 17, 2008 eff. 30 days after filing.

§703.3 Water quality standards for pH, dissolved oxygen, dissolved solids, odor, color and turbidity

Standards for specific classes are provided in this section.

<i>Parameter</i>	<i>Classes</i>	<i>Standard</i>
pH	AA, A, B, C, AA-Special, A-Special, GA	Shall not be less than 6.5 nor more than 8.5.
	D	Shall not be less than 6.0 nor more than 9.5.
	SA, SB, SC, I, SD	The normal range shall not be extended by more than one-tenth (0.1) of a pH unit.
Dissolved oxygen (DO)	A-Special	In rivers and upper waters of lakes, not less than 6.0 mg/L at any time. In hypolimnetic waters, it should not be less than necessary for the support of fishlife, particularly cold water species.
	AA, A, B, C, AA-Special	For trout spawning waters (TS), the DO concentration shall not be less than 7.0 mg/L from other than natural conditions. For trout waters (T), the minimum daily average shall not be less than 6.0 mg/L, and at no time shall the concentration be less than 5.0 mg/L. For nontrout waters, the minimum daily average shall not be less than 5.0 mg/L, and at no time shall the DO concentration be less than 4.0 mg/L.
	D	Shall not be less than 3.0 mg/L at any time.

	SA, SB, SC	<p>Chronic: Shall not be less than a daily average of 4.8 mg/L*</p> <p>Remark: *The DO concentration may fall below 4.8 mg/L for a limited number of days, as defined by the formula:</p> $DO_i = \frac{13.0}{2.80 + 1.84e^{-0.1t}}$ <p style="text-align: right;">where DO_i = DO</p> <p>concentration in mg/L between 3.0 - 4.8 mg/L and t = time in days. This equation is applied by dividing the DO range of 3.0 - 4.8 mg/L into a number of equal intervals. DO_i is the lower bound of each interval (i) and t_i is the allowable number of days that the DO concentration can be within that interval. The actual number of days that the measured DO concentration falls within each interval (i) is divided by the allowable number of days that the DO can fall within interval (i). The sum of the quotients of all intervals (i ...n) cannot exceed 1.0; i.e.,</p> $\sum_{i=1}^n \frac{t_i(actual)}{t_i(allowed)} < 1.0$ <p>The DO concentration shall not fall below the acute standard of 3.0 mg/L at any time.</p>
	SA, SB, SC, SD	Acute: Shall not be less than 3.0 mg/L at any time.
	I	Shall not be less than 4.0 mg/L at any time.
Dissolved Solids	A-Special	Shall not exceed 200 mg/L.
	AA, A, B, C, AA-Special, GA	Shall be kept as low as practicable to maintain the best usage of waters but in no case shall it exceed 500 mg/L.
Odor	GA	Shall not exceed a threshold odor number of 3.
Color	GA	Shall not exceed 15 color units (platinum-cobalt method).
Turbidity	GA	Shall not exceed 5 nephelometric units.

Historical Note

Sec. filed March 20, 1967; repealed, new filed: April 28, 1972; Aug. 2, 1978; Aug. 2, 1991; Jan. 17, 2008 eff. 30 days after filing.

§703.4 Water quality standards for coliforms

Total and fecal coliform standards for specific classes are provided in this section.

(a) Total coliforms (number per 100 ml).

Classes	Standard
AA	The monthly median value and more than 20 percent of the samples, from a minimum of five examinations, shall not exceed 50 and 240, respectively.
A, B, C, D, SB, SC	The monthly median value and more than 20 percent of the samples, from a minimum of five examinations, shall not exceed 2,400 and 5,000, respectively.
SA	The median most probable number (MPN) value in any series of representative samples shall not be in excess of 70.
I	The monthly geometric mean, from a minimum of five examinations, shall not exceed 10,000.
A-Special	The geometric mean, of not less than five samples, taken over not more than a 30-day period shall not exceed 1,000.
GA	The maximum allowable limit is 50.

(b) Fecal coliforms (number per 100 ml).

Classes	Standard
A, B, C, D, SB, SC	The monthly geometric mean, from a minimum of five examinations, shall not exceed 200
I	The monthly geometric mean, from a minimum of five examinations, shall not exceed 2,000.
A-Special	The geometric mean, of not less than five samples, taken over not more than a 30-day period shall not exceed 200.

(c) The total and fecal coliform standards for classes B, C, D, SB, SC and I shall be met during all periods:

- (1) when disinfection is required for SPDES permitted discharges directly into, or affecting the best usage of, the water; or
- (2) when the department determines it necessary to protect human health.

Historical Note

Sec. filed March 20, 1967; repealed, new filed: April 28, 1972; Aug. 2, 1978; amd. filed Nov. 5, 1984; repealed, new filed Aug. 2, 1991; amds. filed: Dec. 10, 1993; Jan. 17, 2008 eff. 30 days after filing. Amended (c).

§703.5 Water quality standards for taste-, color- and odor-producing, toxic and other deleterious substances

(a) Water quality standards for specific substances or groups of substances are listed in [Table 1](#) of subdivision (f) of this section for the applicable water classes. The substance name is listed with the associated Chemical Abstract Service Registry Number (CAS No.) where applicable. For entries in [Table 1](#) of subdivision (f) of this section that refer to chemical groups, congeners or other expressions of multiple substances, the standard applies to the sum of the substances, unless otherwise indicated.

(b) Standards are Health (Water Source), Health (Fish Consumption), Aquatic (Chronic), Aquatic (Acute), Wildlife, Aesthetic (Water Source), Aesthetic (Food Source), or Recreation based and are respectively designated as H(WS), H(FC), A(C), A(A), W, E(WS), E(FS), or R in the column headed "Type." Where more than one Type of standard is listed for a water class, the most stringent applies.

(c) The "Basis Code" in [Table 1](#) of subdivision (f) of this section provides a further description of the basis of the standard. A list of basis codes is found in [Table 2](#) of subdivision (f) of this section.

(d) The standard is the maximum allowable concentration in micrograms per liter (ug/L), unless otherwise noted. A standard defined by the symbol "ND" means not detectable by the analytical tests specified or approved pursuant to Part 700 of this Title.

(e) Special interpretive remarks are provided as necessary.

(f) *Tables.*

Table 1 (cf. section 703.5) WATER QUALITY STANDARDS SURFACE WATERS AND GROUNDWATER

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	TYPE	BASIS CODE
Acenaphthene (83-32-9)	A, A-S, AA, AA-S	20	E(WS)	U
Acetaldehyde (75-07-0)	A, A-S, AA, AA-S	8	H(WS)	A
	GA	8	H(WS)	A
Acrolein (107-02-8)	GA	*	H(WS)	J

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Acrylamide (79-06-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Acrylonitrile (107-13-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Alachlor (15972-60-8)	A, A-S, AA, AA-S	0.5	H(WS)	A
	GA	0.5	H(WS)	A
Aldicarb (116-06-3)	A, A-S, AA, AA-S	7	H(WS)	B
	GA	*	H(WS)	
Remark: * Refer to standards for "Aldicarb and Methomyl."				
Aldicarb and Methomyl (116-06-3; 16752-77-5)	GA	0.35*	H(WS)	F
Remark: * Applies to the sum of these substances.				
Aldrin (309-00-2)	GA	ND	H(WS)	F
	A, A-S, AA, AA-S, B, C, D	*	H(FC)	
	SA, SB, SC, SD	*	H(FC)	
Remark: * Refer to standards for "Aldrin and Dieldrin."				
Aldrin and Dieldrin (309-00-2; 60-57-1)	A, A-S, AA, AA-S, B, C, D	0.001	H(FC)	
	SA, SB, SC, SD	0.001	H(FC)	
Remark: * Applies to the sum of these substances.				
Alkyldimethyl benzyl ammonium chloride (68391-01-5)	A, A-S, AA, AA-S, B, C	*	A(C)	
Remark: * Refer to standards for "Quaternary ammonium compounds."				
Allyl chloride (107-05-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Aluminum, ionic (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	100*	A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15 (c) of this Title.				
Ametryn (834-12-8)	GA	50	H(WS)	J
4-Aminobiphenyl (92-67-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Aminocresols (95-84-1; 2835-95-2; 2835-99-6)	A, A-S, AA, AA-S	*	E(WS)	
	GA	*	E(WS)	
	A, A-S, AA, AA-S, B, C, D	**	E(FS)	
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Refer to standards for "Phenols, total unchlorinated."				

3-Aminotoluene (108-44-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Aminotoluene (106-49-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Ammonia and Ammonium (7664-41-7; CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C D SA, SB, SC, I SA, SB, SC, I, SD	2,000* 2,000* ** ** 35*** 230***	H(WS) H(WS) A(C) A(A) A(C) A(A)	H H
Remarks: * NH ₃ + NH ₄ ⁺ as N. ** Un-ionized ammonia as NH ₃ ; tables below provide the standard in ug/L at varying pH and temperature for different classes and specifications. Linear interpolation between the listed pH values and temperatures is applicable. *** Applies to un-ionized ammonia as NH ₃				

Classes A, A-S, AA, AA-S, B, C with the (T) or (TS) Specification

pH	0°C	5°C	10°C	15-30°C
6.50	0.7	0.9	1.3	1.9
6.75	1.2	1.7	2.3	3.3
7.00	2.1	2.9	4.2	5.9
7.25	3.7	5.2	7.4	11
7.50	6.6	9.3	13	19
7.75	11	15	22	31
8.0-9.0	13	18	25	35

Classes A, A-S, AA, AA-S, B, C without the (T) or (TS) Specification

pH	0°C	5°C	10°C	15°C	20-30°C
6.50	0.7	0.9	1.3	1.9	2.6
6.75	1.2	1.7	2.3	3.3	4.7
7.00	2.1	2.9	4.2	5.9	8.3
7.25	3.7	5.2	7.4	11	15
7.50	6.6	9.3	13	19	26
7.75	11	15	22	31	43
8.0-9.0	13	18	25	35	50

Class D

pH	0°C	5°C	10°C	15°C	20°C	25-30°C
6.50	9.1	13	18	26	36	51
6.75	15	21	30	42	59	84
7.00	23	33	46	66	93	131
7.25	34	48	68	95	140	190
7.50	45	64	91	130	180	260
7.75	56	80	110	160	220	320
8.0-9.0	65	92	130	180	260	370

Table 1 (cf. section 703.5)(Continued) WATER QUALITY STANDARDS SURFACE WATERS AND GROUNDWATER

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	TYPE	BASIS CODE
Aniline (62-53-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Antimony (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	3 3	H(WS) H(WS)	B B
Arsenic (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D SA, SB, SC SD	50 25 150* 340* 63* 120*	H(WS) H(WS) A(C) A(A) A(C) A(A)	G F
Remark: * Dissolved arsenic form.				
Asbestos (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	* *	H(WS) H(WS)	G G
Remark: * 7,000,000 fibers (longer than 10 um)/L				
Atrazine (1912-24-9)	GA	7.5	H(WS)	F
Azinphosmethyl (86-50-0)	GA A, A-S, AA, AA-S, B, C SA, SB, SC	4.4 0.005* 0.01	H(WS) A(C) A(C)	F
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
Azobenzene (103-33-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Barium (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	1,000 1,000	H(WS) H(WS)	G F
Benefin (1861-40-1)	GA	35	H(WS)	F
Benzene (71-43-2)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	1 1 10 10	H(WS) H(WS) H(FC) H(FC)	A A A A
Benidine (92-87-5)	GA A, A-S, AA, AA-S, B, C D	* 0.1** 0.1**	H(WS) A(C) A(A)	J
Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance. ** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
Benzo(a)pyrene (50-32-8)	GA	ND	H(WS)	F
Beryllium (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	*	A(C)	
Remarks: * 11 ug/L when hardness is less than or equal to 75 ppm; 1,100 ug/L when hardness is greater than 75 ppm.				

* For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
Aquatic Type standards apply to acid-soluble form.				
1,1'-Biphenyl (92-52-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bis(2-chloroethoxy)methane (111-91-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bis(2-chloroethyl)ether (111-44-4)	GA	1.0	H(WS)	F
Bis(chloromethyl)ether (542-88-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bis(2-chloro-1-methylethyl)ether (108-60-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bis(2-ethylhexyl)phthalate (117-81-7)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C	5 5 0.6	H(WS) H(WS) A(C)	A A
Boron (CAS No. Not Applicable)	GA A, A-S, AA, AA-S, B, C SA, SB, SC	1,000 10,000* 1,000	H(WS) A(C) A(C)	H
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
Aquatic Type standards apply to acid-soluble form.				
Bromacil (314-40-9)	GA	4.4	H(WS)	F
Bromobenzene (108-86-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bromochloromethane (74-97-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Bromomethane (74-83-9)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Butachlor (23184-66-9)	GA	3.5	H(WS)	F
cis-2-Butenal (15798-64-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

trans-2-Butenal (123-73-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
cis-2-Butenenitrile (1190-76-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-2-Butenenitrile (627-26-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Butylate (2008-41-5)	GA	50	H(WS)	J
n-Butylbenzene (104-51-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
sec-Butylbenzene (135-98-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
tert-Butylbenzene (98-06-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Cadmium (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D SA, SB, SC, I SD	5 5 * ** 7.7 21	H(WS) H(WS) A(C) A(A) A(C) A(A)	B,G B,G
Remarks: * $(0.85) \exp(0.7852 [\ln (\text{ppm hardness})] - 2.715)$ ** $(0.85) \exp(1.128 [\ln (\text{ppm hardness})] - 3.6867)$ Aquatic Type standards apply to dissolved form.				
Captan (133-06-2)	GA	18	H(WS)	F
Carbaryl (63-25-2)	GA	29	H(WS)	F
Carbofuran (1563-66-2)	A, A-S, AA, AA-S A, A-S, AA, AA-S, B, C D	15 1.0* 10*	H(WS) A(C) A(A)	B
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
Carbon disulfide (75-15-0)	A, A-S, AA, AA-S GA	60 60	H(WS) H(WS)	B B
Carbon tetrachloride (56-23-5)	GA	5	H(WS)	F
Carboxin (5234-68-4)	GA	50	H(WS)	J

Chloramben (CAS No. Not Applicable)	GA	50*	H(WS)	J
Remark: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.				
Chloranil (118-75-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chlordane (57-74-9)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.05 0.05 2×10^{-5} 2×10^{-5}	H(WS) H(WS) H(FC) H(FC)	A A A A
Chloride (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	250,000 250,000	H(WS) H(WS)	H H
Chlorinated dibenzo-p-dioxins and Chlorinated dibenzofurans (CAS No. Not applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	7×10^{-7} 7×10^{-7} 6×10^{-10} 6×10^{-10} 3.1×10^{-9} 3.1×10^{-9}	H(WS) H(WS) H(FC) H(FC) W W	A A A A
Remarks: * Value is for the total of the chlorinated dibenzo-p-dioxins and chlorinated dibenzofurans that are listed in the table below as equivalents of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD). The 2,3,7,8-TCDD equivalent for a congener for the H(WS) standards is obtained by multiplying the concentration of that congener by its Toxicity Equivalency Factor (TEF) from the table below. The 2,3,7,8-TCDD equivalent for a congener for the H(FC) standards is obtained by multiplying the concentration of that congener by its TEF and its Bioaccumulation Equivalency Factor (BEF) from the table below. ** Applies only to 2,3,7,8-TCDD				

CONGENER	TEF	BEF
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1	1
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	0.9
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.1	0.3
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.1	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.1	0.1
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.01	0.05
Octachlorodibenzo-p-dioxin	0.001	0.01
2,3,7,8-Tetrachlorodibenzofuran	0.1	0.8
1,2,3,7,8-Pentachlorodibenzofuran	0.05	0.2
2,3,4,7,8-Pentachlorodibenzofuran	0.5	1.6
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1	0.08
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1	0.2
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1	0.7
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1	0.6
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01	0.4
Octachlorodibenzofuran	0.001	0.02

Chlorine, Total Residual (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C D SA, SB, SC, I SD	5 19 7.5 13	A(C) A(A) A(C) A(A)
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2-Chloroaniline (95-51-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Chloroaniline (108-42-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Chloroaniline (106-47-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chlorobenzene (108-90-7)	A, A-S, AA, AA-S	5	H(WS)	I
	GA	*	H(WS)	J
	A, A-S, AA, AA-S, B, C, D	400	H(FC)	B
	SA, SB, SC, I, SD	400	H(FC)	B
	A, A-S, AA, AA-S, B, C	5	A(C)	
	A, A-S, AA, AA-S	20	E(WS)	U
	D	50	E(FS)	V
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Chlorobenzotrifluoride (98-56-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1-Chlorobutane (109-69-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chloroethane (75-00-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chloroform (67-66-3)	A, A-S, AA, AA-S GA	7 7	H(WS) H(WS)	A A
Chloromethyl methyl ether (107-30-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2-Chloronaphthalene (91-58-7)	A, A-S, AA, AA-S	10	E(WS)	U
2-Chloronitrobenzene (88-73-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Chloronitrobenzene (121-73-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

4-Chloronitrobenzene (100-00-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chloroprene (126-99-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chlorothalonil (1897-45-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2-Chlorotoluene (95-49-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Chlorotoluene (108-41-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Chlorotoluene (106-43-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Chloro-o-toluidine (95-69-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
5-Chloro-o-toluidine (95-79-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Chloro-1,1,1-trifluoropropane (460-35-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Chromium (CAS No. Not Applicable)	A, A-S, AA, AA-S	50	H(WS)	G
	GA	50	H(WS)	G
	A, A-S, AA, AA-S, B, C	*	A(C)	
	A, A-S, AA, AA-S, B, C, D	**	A(A)	
Remarks: * $(0.86) \exp(0.819 [\ln (\text{ppm hardness})] + 0.6848)$ ** $(0.316) \exp(0.819 [\ln (\text{ppm hardness})] + 3.7256)$ Aquatic Type standards apply to dissolved form and do not include hexavalent chromium.				
Chromium (hexavalent) (CAS No. Not Applicable)	GA	50	H(WS)	F
	A, A-S, AA, AA-S, B, C	11*	A(C)	
	A, A-S, AA, AA-S, B, C, D	16*	A(A)	
	SA, SB, SC	54**	A(C)	

	SD	1200**	A(A)	
Remarks: * Applies to dissolved form. ** Applies to acid-soluble form.				
Cobalt (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	5*	A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title. Aquatic Type standards apply to acid-soluble form.				
Copper (CAS No. Not Applicable)	A, A-S, AA, AA-S	200	H(WS)	H
	GA	200	H(WS)	H
	A, A-S, AA, AA-S, B, C	*	A(C)	
	A, A-S, AA, AA-S, B, C, D	**	A(A)	
	SA, SB, SC, I	***	A(C)	
	SA, SB, SC, I, SD	****	A(A)	
Remarks: * $(0.96) \exp(0.8545 [\ln (\text{ppm hardness})] - 1.702)$ ** $(0.96) \exp(0.9422 [\ln (\text{ppm hardness})] - 1.7)$ *** Standard is 3.4 ug/L except in New York/New Jersey harbor where it is 5.6 ug/L. **** Standard is 4.8 ug/L except in New York/New Jersey harbor where it is 7.9 ug/L. Aquatic Type standards apply to dissolved form.				
Cyanide (CAS No. Not Applicable)	A, A-S, AA, AA-S	200	H(WS)	B
	GA	200	H(WS)	B
	A, A-S, AA, AA-S, B, C, D	9000	H(FC)	B
	SA, SB, SC, I, SD	9000	H(FC)	B
	A, A-S, AA, AA-S, B, C	5.2*	A(C)	
	A, A-S, AA, AA-S, B, C, D	22*	A(A)	
	SA, SB, SC	1.0*	A(C)	
	SD	1.0*	A(A)	
Remark: * As free cyanide: the sum of HCN and CN ⁻ expressed as CN.				
Cyanogen bromide (506-68-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Cyanogen chloride (506-77-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Dalapon (CAS No. Not Applicable)	GA	50*	H(WS)	J
Remark: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.				
p,p'-DDD (72-54-8)	A, A-S, AA, AA-S	0.3	H(WS)	A
	GA	0.3	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	8×10^{-5}	H(FC)	A
	SA, SB, SC, I, SD	8×10^{-5}	H(FC)	A
	A, A-S, AA, AA-S, B, C, D	*	W	W
	SA, SB, SC, I, SD	*	W	W

Remark: * See standard for p,p'-DDT.					
p,p'-DDE (72-55-9)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.2 0.2 7×10^{-6} 7×10^{-6} *	H(W) H(W) H(FC) H(FC) W W	A A A A	
Remark: * See standard for p,p'-DDT.					
p,p'-DDT (50-29-3)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.2 0.2 1×10^{-5} 1×10^{-5} 1.1×10^{-5} 1.1×10^{-5}	H(W) H(W) H(FC) H(FC) W W	A A A A	
Remark: * Applies to the sum of p,p'-DDD, p,p'-DDE and p,p'-DDT.					
Dechlorane Plus (13560-89-9)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Demeton (8065-48-3; 298-03-3; 126-75-0)	A, A-S, AA, AA-S, B, C SA, SB, SC	0.1* 0.1	A(C) A(C)		
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title. Standards apply to the sum of these substances.					
Diazinon (333-41-5)	GA A, A-S, AA, AA-S, B, C	0.7 0.08*	H(W) A(C)	F	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.					
1,2-Dibromobenzene (583-53-9)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,3-Dibromobenzene (108-36-1)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,4-Dibromobenzene (106-37-6)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,2-Dibromo-3-chloropropane (96-12-8)	A, A-S, AA, AA-S GA	0.04 0.04	H(W) H(W)	A A	
Dibromodichloromethane (594-18-3)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Dibromomethane (74-95-3)	GA	*	H(W)	J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Di-n-butyl phthalate (84-74-2)	GA	50	H(W)	J	

Dicamba (1918-00-9)	GA	0.44	H(WS)	F
Dichlorobenzenes (95-50-1; 541-73-1; 106-46-7)	A, A-S, AA, AA-S	3*	H(WS)	A
	GA	3*	H(WS)	A
	A, A-S, AA, AA-S, B, C	5**	A(C)	
	A, A-S, AA, AA-S	20***/30****	E(WS)	U
	D	50**	E(FS)	V
Remarks: * Applies to each isomer (1,2-,1,3- and 1,4-dichlorobenzene) individually. ** Applies to the sum of 1,2-, 1,3- and 1,4-dichlorobenzene. For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title. *** Applies to 1,3-dichlorobenzene only. **** Applies to 1,4-dichlorobenzene only.				
3,3'-Dichlorobenzidine (91-94-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,4-Dichlorobenzotrifluoride (328-84-7)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
cis-1,4-Dichloro-2-butene (1476-11-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-1,4-Dichloro-2-butene (110-57-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Dichlorodifluoromethane (75-71-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,1-Dichloroethane (75-34-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,2-Dichloroethane (107-06-2)	A, A-S, AA, AA-S GA	0.6 0.6	H(WS) H(WS)	A A
1,1-Dichloroethene (75-35-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
cis-1,2-Dichloroethene (156-59-2)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-1,2-Dichloroethene (156-60-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Dichlorofluoromethane (75-43-4)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4-Dichlorophenol (120-83-2)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D	0.3* ** ***	E(W) E(W) E(FS)	U	
Remarks: * Also see standards for "Phenolic compounds (total phenols)." ** Refer to standards for "Phenolic compounds (total phenols)." *** Refer to standards for "Phenols, total chlorinated."					
2,4-Dichlorophenoxyacetic acid (94-75-7)	A, A-S, AA, AA-S GA	50 50	H(W) H(W)	G G	
1,1-Dichloropropane (78-99-9)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,2-Dichloropropane (78-87-5)	A, A-S, AA, AA-S GA	1 1	H(W) H(W)	A A	
1,3-Dichloropropane (142-28-9)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,2-Dichloropropane (594-20-7)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,3-Dichloropropene (542-75-6)	A, A-S, AA, AA-S GA	0.4* 0.4*	H(W) H(W)	A A	
Remark: * Applies to the sum of cis- and trans-1,3-dichloropropene, CAS Nos. 10061-01-5 and 10061-02-6, respectively.					
2,3-Dichlorotoluene (32768-54-0)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4-Dichlorotoluene (95-73-8)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,5-Dichlorotoluene (19398-61-9)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,6-Dichlorotoluene (118-69-4)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3,4-Dichlorotoluene (95-75-0)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J	

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,5-Dichlorotoluene (25186-47-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Dieldrin (60-57-1)	A, A-S, AA, AA-S	0.004	H(WS)	A
	GA	0.004	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	6×10^{-7}	H(FC)	A
	SA, SB, SC, I, SD	6×10^{-7}	H(FC)	A
	A, A-S, AA, AA-S, B, C	0.056	A(C)	
	A, A-S, AA, AA-S, B, C, D	0.24	A(A)	
Di(2-ethylhexyl)adipate (103-23-1)	A, A-S, AA, AA-S GA	20 20	H(WS) H(WS)	A A
1,2-Difluoro-1,1,2,2-tetrachloroethane (76-12-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,2-Diisopropylbenzene (577-55-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,3-Diisopropylbenzene (99-62-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,4-Diisopropylbenzene (100-18-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
N,N-Dimethylaniline (121-69-7)	A, A-S, AA, AA-S	1	H(WS)	A
	GA	1	H(WS)	A
2,3-Dimethylaniline (87-59-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4-Dimethylaniline (95-68-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,5-Dimethylaniline (95-78-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,6-Dimethylaniline (87-62-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

3,4-Dimethylaniline (95-64-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,5-Dimethylaniline (108-69-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,3'-Dimethylbenzidine (119-93-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4,4'-Dimethylbibenzyl (538-39-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4,4'-Dimethyldiphenylmethane (4957-14-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha, alpha-Dimethylphenethylamine (122-09-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4-Dimethylphenol (105-67-9)	A, A-S, AA, AA-S, B, C, D	1000	H(FC)	B
	SA, SB, SC, I, SD	1000	H(FC)	B
	A, A-S, AA, AA-S	*	E(WS)	
	GA	*	E(WS)	
	A, A-S, AA, AA-S, B, C, D	**	E(FS)	
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Refer to standards for "Phenols, total unchlorinated."				
Dimethyl tetrachloroterephthalate (1861-32-1)	GA	50	H(WS)	J
1,3-Dinitrobenzene (99-65-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4-Dinitrophenol (51-28-5)	A, A-S, AA, AA-S, B, C, D	400	H(FC)	B
	SA, SB, SC, I, SD	400	H(FC)	B
	A, A-S, AA, AA-S	*	E(WS)	
	GA	*	E(WS)	
	A, A-S, AA, AA-S, B, C, D	**	E(FS)	
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Refer to standards for "Phenols, total unchlorinated."				
2,3-Dinitrotoluene (602-01-7)	GA	*	H(WS)	J

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4-Dinitrotoluene (121-14-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,5-Dinitrotoluene (619-15-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,6-Dinitrotoluene (606-20-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,4-Dinitrotoluene (610-39-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,5-Dinitrotoluene (618-85-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Diphenamid (957-51-7)	GA	50	H(WS)	J
Diphenylamine (122-39-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Diphenylhydrazines (122-66-7; 530-50-7)	GA	ND*	H(WS)	F
Remark: * Applies to the sum of 1,1- and 1,2-diphenylhydrazine, CAS Nos. 530-50-7 and 122-66-7, respectively.				
Diquat (2764-72-9)	A, A-S, AA, AA-S GA	20* 20*	H(WS) H(WS)	B B
Remark: * Applies to the concentration of diquat ion whether free or as an undissociated salt.				
Disulfoton (298-04-4)	GA	*	H(WS)	
Remark: * Refer to standards for "Phorate and Disulfoton."				
Dyphylline (479-18-5)	A, A-S, AA, AA-S	50	H(WS)	B
Endosulfan (115-29-7)	A, A-S, AA, AA-S, B, C	0.009	A(C)	
	D	0.22*	A(A)	
	SA, SB, SC	0.001	A(C)	
	SD	0.034	A(A)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(d) of this Title.				
Endrin (72-20-8)	A, A-S, AA, AA-S	0.2	H(WS)	G
	GA	ND	H(WS)	F
	A, A-S, AA, AA-S, B, C, D	0.002	H(FC)	

	SA, SB, SC, SD	0.002	H(FC)	
	A, A-S, AA, AA-S, B, C	0.036	A(C)	
	A, A-S, AA, AA-S, B, C, D	0.086	A(A)	
Endrin aldehyde (7421-93-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Endrin ketone (53494-70-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Ethylbenzene (100-41-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Ethylene dibromide (106-93-4)	A, A-S, AA, AA-S GA	6×10^{-4} 6×10^{-4}	H(WS) H(WS)	A A
Ethylenethiourea (96-45-7)	GA	ND	H(WS)	F
Ferbam (14484-64-1)	GA	4.2	H(WS)	F
Fluometuron (2164-17-2)	GA	50	H(WS)	J
Fluoride (CAS No. Not Applicable)	A, A-S, AA, AA-S	1500	H(WS)	H
	GA	1500	H(WS)	F
	A, A-S, AA, AA-S, B, C	*	A(C)	
	D	**	A(A)	
Remarks: * $(0.02) \exp(0.907 [\ln (\text{ppm hardness})] + 7.394)$ ** $(0.1) \exp(0.907 [\ln (\text{ppm hardness})] + 7.394)$ For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
Foaming agents (CAS No. Not Applicable)	GA	500*	E(WS)	U
Remark: * Determined as methylene blue active substances (MBAS) or by other tests as specified by the Commissioner.				
Folpet (133-07-3)	GA	50	H(WS)	J
Formaldehyde (50-00-0)	A, A-S, AA, AA-S GA	8 8	H(WS) H(WS)	A A
Gross alpha radiation (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	* *	H(WS) H(WS)	G G
Remark: * 15 picocuries per liter, excluding radon and uranium.				
Gross beta radiation (CAS No. Not Applicable)	A, AA GA	* *	H(WS) H(WS)	H H
Remark: * 1,000 picocuries per liter, excluding strontium-90 and alpha emitters.				

Heptachlor (76-44-8)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.04 0.04 2×10^{-4} 2×10^{-4}	H(WS) H(WS) H(FC) H(FC)	A A A A
Heptachlor epoxide (1024-57-3)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.03 0.03 3×10^{-4} 3×10^{-4}	H(WS) H(WS) H(FC) H(FC)	A A A A
Hexachlorobenzene (118-74-1)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.04 0.04 3×10^{-5} 3×10^{-5}	H(WS) H(WS) H(FC) H(FC)	A A A A
Hexachlorobutadiene (87-68-3)	A, A-S, AA, A-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C D SA, SB, SC SD	0.5 0.5 0.01 0.01 1.0* 10* 0.3 3.0	H(WS) H(WS) H(FC) H(FC) A(C) A(A) A(C) A(A)	B B B B
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
alpha-Hexachlorocyclohexane (319-84-6)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.01 0.01 0.002 0.002	H(WS) H(WS) H(FC) H(FC)	A A A A
beta-Hexachlorocyclohexane (319-85-7)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.04 0.04 0.007 0.007	H(WS) H(WS) H(FC) H(FC)	A A A A
delta-Hexachlorocyclohexane (319-86-8)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.04 0.04 0.008 0.008	H(WS) H(WS) H(FC) H(FC)	A A A A
epsilon-Hexachlorocyclohexane (6108-10-7)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.04 0.04 0.008 0.008	H(WS) H(WS) H(FC) H(FC)	A A A A
gamma-Hexachlorocyclohexane (58-89-9)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C, D	0.05 0.05 0.008 0.008 0.95	H(WS) H(WS) H(FC) H(FC) A(A)	A A A A
Hexachlorocyclopentadiene (77-47-4)	GA A, A-S, AA, AA-S, B, C D SA, SB, SC SD A, A-S, AA, AA-S	* 0.45** 4.5** 0.07 0.7 1.0	H(WS) A(C) A(A) A(C) A(A) E	J U
Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
Hexachloroethane (67-72-1)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	5 * 0.6 0.6	H(WS) H(WS) H(FC) H(FC)	A, I J A A
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

Hexachlorophene (70-30-4)	GA A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D	* ** ** ***	H(WS) E(WS) E(WS) E(FS)	J
Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance. ** Refer to standards for "Phenolic compounds (total phenols)." *** Refer to standards for "Phenols, total chlorinated."				
Hexachloropropene (1888-71-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Hexazinone (51235-04-2)	GA	50	H(WS)	J
Hydrazine (302-01-2)	A, A-S, AA, AA-S, B, C D	* **	A(C) A(A)	
Remarks: * 5 ug/L at less than 50 ppm hardness and 10 ug/L at greater than or equal to 50 ppm hardness. ** 50 ug/L at less than 50 ppm hardness and 100 ug/L at greater than or equal to 50 ppm hardness. For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
Hydrogen sulfide (7783-06-4)	A, A-S, AA, AA-S, B, C SA, SB, SC	2.0* 2.0	A(C) A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title. Aquatic Type standards apply to undissociated form.				
Hydroquinone (123-31-9)	A, A-S, AA, AA-S, B, C	2.2**	A(C)	
	D	4.4**	A(A)	
	A, A-S, AA, AA-S	*	E(WS)	
	GA	*	E(WS)	
	A, A-S, AA, AA-S, B, C, D	***	E(FS)	
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title. *** Refer to standards for "Phenols, total unchlorinated."				
Iron (CAS No. Not Applicable)	A, A-S, AA, AA-S	300	E(WS)	G
	GA	300*	E(WS)	F
Remarks: * Also see standard for "Iron and Manganese."				
Iron and Manganese (CAS No. Not Applicable)	GA	500*	E(WS)	F
Remark: * Applies to the sum of these substances; also see individual standards for "Iron" and "Manganese."				
Isodecyl diphenyl phosphate (29761-21-5)	A, A-S, AA, AA-S, B, C	1.7*	A(C)	
	D	22*	A(A)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
Isodrin (465-73-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

Isopropalin (33820-53-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Isopropylbenzene (98-82-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2-Isopropyltoluene (527-84-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Isopropyltoluene (535-77-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Isopropyltoluene (99-87-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Isothiazolones, total (isothiazolinones) (includes 5-chloro-2-methyl-4-isothiazolin-3-one & 2-methyl-4-isothiazolin-3-one) (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C D	1* 10*	A(C) A(A)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title. Standards apply to the sum of these substances.				
Kepone (143-50-0)	GA	ND	H(WS)	F
Lead (CAS No. Not Applicable)	A, A-S, AA, AA-S	50	H(WS)	G
	GA	25	H(WS)	F
	A, A-S, AA, AA-S, B, C	*	A(C)	
	A, A-S, AA, AA-S, B, C, D	**	A(A)	
	SA, SB, SC, I	8	A(C)	
	SA, SB, SC, I, SD	204	A(A)	
Remarks: * $\{1.46203 - [\ln(\text{hardness}) (0.145712)]\} \exp(1.273 [\ln(\text{hardness})] - 4.297)$ ** $\{1.46203 - [\ln(\text{hardness}) (0.145712)]\} \exp(1.273 [\ln(\text{hardness})] - 1.052)$ Aquatic Type standards apply to dissolved form.				
Linear alkyl benzene sulfonates (LAS) (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	40*	A(C)	
Remark: * LAS with side chains greater than 13 carbons only; applies to the sum of these substances. * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
Magnesium (CAS No. Not Applicable)	A, A-S, AA, AA-S	35,000	H(WS)	B
Malathion (121-75-5)	GA	7.0	H(WS)	F
	A, A-S, AA, AA-S, B, C	0.1*	A(C)	

	SA, SB, SC	0.1	A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
Mancozeb (8018-01-7)	GA	1.8	H(WS)	F
Maneb (12427-38-2)	GA	1.8	H(WS)	F
Manganese (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	300 300*	E(WS) E(WS)	G F
Remark: * Also see standards for "Iron and Manganese."				
Mercury (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD	0.7 0.7 7×10^{-4} * 7×10^{-4} * 0.77* 1.4* 0.0026* 0.0026*	H(WS) H(WS) H(FC) H(FC) A(C) A(A) W W	B B B B B
Remark * Applies to dissolved form.				
Methacrylonitrile (126-98-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Methomyl (16752-77-5)	GA	*	H(WS)	
Remark: * Refer to standard for "Aldicarb and Methomyl."				
Methoxychlor (72-43-5)	A, A-S, AA, AA-S	35	H(WS)	H
	GA	35	H(WS)	F
	A, A-S, AA, AA-S, B, C	0.03*	A(C)	
	SA, SB, SC	0.03	A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
N-Methylaniline (100-61-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Methyl chloride (74-87-3)	A, A-S, AA, AA-S	5	H(WS)	I
	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2-Methyl-4-chlorophenoxyacetic acid (94-74-6)	GA	0.44	H(WS)	F
4,4'-Methylene-bis-(2-chloroaniline) (101-14-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4,4'-Methylene-bis-(N-methyl)aniline (1807-55-2)	GA	*	H(WS)	J

Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4,4'-Methylene-bis-(N,N'-dimethyl)aniline (101-61-1)	GA	*	H(WS)	J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Methylene bithiocyanate (6317-18-6)	A, A-S, AA, AA-S, B, C	1.0*	A(C)		
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.					
Methylene chloride (75-09-2)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA,SB, SC, I, SD	5 * 200 200	H(WS) H(WS) H(FC) H(FC)	I J A A	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Methyl iodide (74-88-4)	GA	*	H(WS)	J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Methyl methacrylate (80-62-6)	GA	50	H(WS)	J	
Methyl parathion (298-00-0)	GA A, A-S, AA, AA-S, B, C	* *	H(WS) A(C)		
Remark: * Refer to the standards for "Parathion and Methyl parathion."					
alpha-Methylstyrene (98-83-9)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2-Methylstyrene (611-15-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3-Methylstyrene (100-80-1)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Methylstyrene (622-97-9)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Metolachlor (51218-45-2)	A, A-S, AA, AA-S GA	10 10	H(WS) H(WS)	A A	
Metribuzin (21087-64-9)	GA	50	H(WS)	J	
Mirex (2385-85-5)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C, D SA, SB, SC, I, SD A, A-S, AA, AA-S, B, C	0.03 0.03 1×10^{-6} 1×10^{-6} 0.001* 0.001* 0.001	H(WS) H(WS) H(FC) H(FC) A(C) A(A) A(C)	A A A A A A	

	D SA, SB, SC			
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
Nabam (142-59-6)	GA	1.8	H(WS)	F
Naphthalene (91-20-3)	A, A-S, AA, AA-S	10	E(WS)	U
Niacinamide (98-92-0)	A, A-S, AA, AA-S	500	H(WS)	B
Nickel (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D SA, SB, SC, I SA, SB, SC, I, SD	100 100 * ** 8.2 74	H(WS) H(WS) A(C) A(A) A(C) A(A)	B B
Remarks: * (0.997) exp (0.846 [ln (hardness)] + 0.0584) ** (0.998) exp (0.846 [ln (hardness)] + 2.255) Aquatic Type standards apply to dissolved form.				
Nitralin (4726-14-1)	GA	35	H(WS)	F
Nitrate (expressed as N) (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	10,000* 10,000*	H(WS) H(WS)	G G
Remark: * Also see standards for "Nitrate and Nitrite."				
Nitrate and Nitrite (expressed as N) (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	10,000* 10,000*	H(WS) H(WS)	G G
Remark: * Applies to the sum of these substances; also see individual standards for "Nitrate" and "Nitrite."				
Nitrioltriacetic acid (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C	3* 3* 5,000**	H(WS) H(WS) A(C)	A A
Remarks: * Includes related forms that convert to nitrioltriacetic acid upon acidification to a pH of 2.3 or less. ** Applies to nitrioltriacetate. ** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
Nitrite (expressed as N) (CAS No. Not Applicable)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S, B, C	1,000* 1,000* **	H(WS) H(WS) A(C)	G G
Remarks: * Also see standards for "Nitrate and Nitrite." ** Standard is 100 ug/L except 20 ug/L for trout waters (T or TS). ** For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
2-Nitroaniline (88-74-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Nitroaniline (99-09-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

4-Nitroaniline (100-01-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Nitrobenzene (98-95-3)	A, A-S, AA, AA-S GA A, A-S, AA, AA-S	0.4 0.4 30	H(WS) H(WS) E(WS)	A A U
2-Nitrotoluene (88-72-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Nitrotoluene (99-08-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
4-Nitrotoluene (99-99-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
5-Nitro-o-toluidine (99-55-8)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Octachlorostyrene (29082-74-4)	A, A-S, AA, AA-S	0.2	H(WS)	B
	GA	0.2	H(WS)	B
	A, A-S, AA, AA-S, B, C, D	6 x 10 ⁻⁶	H(FC)	B
	SA, SB, SC, I, SD	6 x 10 ⁻⁶	H(FC)	B
Oxamyl (23135-22-0)	GA	50	H(WS)	J
Paraquat (4685-14-7)	GA	3.0	H(WS)	F
Parathion (56-38-2)	GA	*	H(WS)	
	A, A-S, AA, AA-S, B, C	*	A(C)	
	A, A-S, AA, AA-S, B, C, D	0.065	A(A)	
Remark: * Refer to standards for "Parathion and Methyl parathion."				
Parathion and Methyl parathion (56-38-2; 298-00-0)	GA A, A-S, AA, AA-S, B, C	1.5* 0.008**	H(WS) A(C)	F
Remarks: * Applies to the sum of these substances. ** Applies to the sum of these substances. For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
Pendimethalin (40487-42-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Pentachlorobenzene (608-93-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

Pentachloroethane (76-01-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Pentachloronitrobenzene (82-68-8)	GA	ND	H(WS)	F
Pentachlorophenol (87-86-5)	A, A-S, AA, AA-S, B, C	*	A(C)	
	A, A-S, AA, AA-S, B, C, D	**	A(A)	
	A, A-S, AA, AA-S	***	E(WS)	
	GA	***	E(WS)	
	A, A-S, AA, AA-S, B, C, D	****	E(FS)	
Remarks: * exp [1.005 (pH) - 5.134] ** exp [1.005 (pH) - 4.869] *** Refer to standards for "Phenolic compounds (total phenols)." **** Refer to standards for "Phenols, total chlorinated."				
Phenol (108-95-2)	A, A-S, AA, AA-S	*	E(WS)	
	GA	*	E(WS)	
	A, A-S, AA, AA-S, B, C, D	**	E(FS)	
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Refer to standards for "Phenols, total unchlorinated."				
Phenolic compounds (total phenols) (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	1* 1*	E(WS) E(WS)	U U
Remark: * Applies to the sum of these substances.				
Phenols, total chlorinated (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	*	E(WS)	
	A, A-S, AA, AA-S, B, C, D	1.0**	E(WS) E(FS)	V
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Applies to the sum of these substances.				
Phenols, total unchlorinated (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	*	E(WS)	
	A, A-S, AA, AA-S, B, C, D	5.0**	E(WS) E(FS)	V
Remarks: * Refer to standards for "Phenolic compounds (total phenols)." ** Applies to the sum of these substances.				
1,2-Phenylenediamine (95-54-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,3-Phenylenediamine (108-45-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,4-Phenylenediamine (106-50-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

Phenyl ether (101-84-8)	A, A-S, AA, AA-S	10	E(WS)	U
Phenyhydrazine (100-63-0)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3-Phenyl-1-propene (637-50-3)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
cis-1-Phenyl-1-propene (766-90-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-1-Phenyl-1-propene (873-66-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Phorate (298-02-2)	GA	*	H(WS)	
Remark: * Refer to standards for "Phorate and Disulfoton."				
Phorate and Disulfoton (298-02-2; 298-04-4)	GA	ND*	H(WS)	F
Remark: * Applies to sum of these substances.				
Picloram (CAS No. Not Applicable)	GA	50*	H(WS)	J
Remark: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.				
Polybrominated biphenyls (CAS No. Not Applicable)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to each congener individually.				
Polychlorinated biphenyls (CAS No. Not Applicable)	A, A-S, AA, AA-S	0.09*	H(WS)	A
	GA	0.09*	H(WS)	A
	A, A-S, AA, AA-S, B, C, D	1 x 10 ^{-6*}	H(FC)	A
	SA, SB, SC, I, SD	1 x 10 ^{-6*}	H(FC)	A
	A, A-S, AA, AA-S, B, C, D	1.2 x 10 ^{-4*}	W	
	SA, SB, SC, I, SD	1.2 x 10 ^{-4*}	W	
Remark: * Applies to the sum of these substances.				
Principal organic contaminant (CAS No. Not Applicable)	GA	5	H(WS)	J
<p>Remarks: This standard applies to any and every individual substance, whether listed in this Table or not, that is in one of the principal organic contaminant classes as defined in section 700.1 of this Title <i>except</i> any substance that has a H(WS) Type standard for class GA waters (other than 5 ug/L with Basis Code J) listed elsewhere in this Table.</p> <p>For the convenience of the reader, the principal organic contaminant standard of 5 ug/L (Basis Code J), is listed in this Table for some but not all substances regulated by this standard.</p> <p>A less stringent guidance value for an individual substance may be substituted for this standard if so determined by the Commissioner of the New York State Department of Health.</p>				

Prometon (1610-18-0)	GA	50	H(WS)	J
Propachlor (1918-16-7)	GA	35	H(WS)	F
Propanil (709-98-8)	GA	7.0	H(WS)	F
Propazine (139-40-2)	GA	16	H(WS)	F
Propham (122-42-9)	GA	50	H(WS)	J
n-Propylbenzene (103-65-1)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Quaternary ammonium compounds (including dimethyl benzylammonium chloride & dimethylethyl benzyl ammonium chloride) (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	10*	A(C)	
Remarks: * Applies to the sum of these substances. * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
Radium 226 (CAS No. Not Applicable)	A, AA GA	* *	H(WS) H(WS)	H H
Remark: * 3 picocuries per liter; also see standards for "Radium 226 and Radium 228."				
Radium 226 and Radium 228 (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	* *	H(WS) H(WS)	G G
Remark: * 5 picocuries per liter; Applies to the sum of these substances.				
Radium 228 (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	* *	H(WS) H(WS)	
Remark: * Refer to standards for "Radium 226 and Radium 228."				
Selenium (CAS No. Not Applicable)	A, A-S, AA, AA-S	10	H(WS)	G
	GA	10	H(WS)	G
	A, A-S, AA, AA-S, B, C	4.6*	A(C)	
Remark: * Aquatic Type standard applies to dissolved form.				
Silver (CAS No. Not Applicable)	A, A-S, AA, AA-S	50	H(WS)	G
	GA	50	H(WS)	F
	A, A-S, AA, AA-S, B, C	0.1*	A(C)	
	D	**	A(A)	
	SD	2.3	A(A)	
Remarks: * Applies to ionic silver. ** $\exp(1.72 [\ln (\text{ppm hardness})] - 6.52)$. Standards for D and SD Classes apply to acid-soluble form. For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
	A, A-S, AA, AA-S	0.5	H(WS)	A

Simazine (122-34-9)	GA	0.5	H(WS)	A
Sodium (CAS No. Not Applicable)	GA	20,000	H(WS)	H
Strontium 90 (CAS No. Not Applicable)	A, A-S, AA, AA-S	*	H(WS)	G
Remarks: * 8 picocuries per liter. If two or more radionuclides are present, the sum of their doses shall not exceed an annual potential dose of 4 millirems per year.				
Styrene (100-42-5)	GA A, A-S, AA, AA-S	* 50	H(WS) E(WS)	J U
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Sulfate (CAS No. Not Applicable)	A, A-S, AA, AA-S GA	250,000 250,000	H(WS) H(WS)	G F
Sulfite (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	200*	A(C)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.				
Tebuthiuron (34014-18-1)	GA	50	H(WS)	J
Terbacil (5902-51-2)	GA	50	H(WS)	J
Tetrachlorobenzenes (634-66-2; 634-90-2; 95-94-3; 12408-10-5)	GA A, A-S, AA, AA-S	* 10**	H(WS) E(WS)	J U
Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to each isomer (1,2,3,4-, 1,2,3,5-, and 1,2,4,5-tetrachlorobenzene) individually. ** Applies to the sum of 1,2,3,4-, 1,2,3,5- and 1,2,4,5-tetrachlorobenzene.				
1,1,1,2-Tetrachloroethane (630-20-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,1,2,2-Tetrachloroethane (79-34-5)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Tetrachloroethene (127-18-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Tetrachloroterephthalic acid (2136-79-0)	GA	50	H(WS)	J
alpha, alpha, alpha, 4-Tetrachlorotoluene (5216-25-1)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Thallium (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C D	8* 20	A(C) A(A)	

Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title.					
Aquatic Type standards apply to acid-soluble form.					
Theophylline (58-55-9)	A, A-S, AA, AA-S	40	H(WS)	B	
Thiram (137-26-8)	GA	1.8	H(WS)	F	
Toluene (108-88-3)	A, A-S, AA, AA-S	5	H(WS)	I	
	GA	*	H(WS)	J	
	A, A-S, AA, AA-S, B, C, D	6000	H(FC)	B	
	SA, SB, SC, I, SD	6000	H(FC)	B	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Toluene-2,4-diamine (95-80-7)	GA	*	H(WS)	J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Toluene-2,5-diamine (95-70-5)	GA	*	H(WS)	J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Toluene-2,6-diamine (823-40-5)	GA	*	H(WS)	J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
o-Toluidine (95-53-4)	GA	*	H(WS)	J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Toxaphene (8001-35-2)	A, A-S, AA, AA-S	0.06	H(WS)	A	
	GA	0.06	H(WS)	A	
	A, A-S, AA, AA-S, B, C, D	6 x 10 ⁻⁶	H(FC)	A	
	SA, SB, SC, I, SD	6 x 10 ⁻⁶	H(FC)	A	
	A, A-S, AA, AA-S, B, C	0.005	A(C)		
	D	1.6*	A(A)		
SA, SB, SC	0.005	A(C)			
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic standard if so determined under section 702.15(d) of this Title.					
1,2,4-Tribromobenzene (615-54-3)	A, A-S, AA, AA-S	5	H(WS)	I	
	GA	*	H(WS)	J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4,6-Trichloroaniline (634-93-5)	GA	*	H(WS)	J	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
	GA	*	H(WS)	J	

Trichlorobenzenes (87-61-6; 120-82-1; 108-70-3; 12002-48-1)	A, A-S, AA, AA-S, B, C	5**	A(C)	
	SA, SB, SC	5**	A(C)	
	A, A-S, AA, AA-S	10**	E(WS)	U
	D	50**	E(FS)	V
	SD	50**	E(FS)	V
Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to each isomer (1,2,3-, 1,2,4- and 1,3,5-trichlorobenzene) individually.				
** Applies to the sum of 1,2,3-, 1,2,4- and 1,3,5-trichlorobenzene.				
For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) of this Title				
1,1,1-Trichloroethane (71-55-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,1,2-Trichloroethane (79-00-5)	A, A-S, AA, AA-S GA	1 1	H(WS) H(WS)	A A
Trichloroethene (79-01-6)	A, A-S, AA, AA-S	5	H(WS)	I
	GA	*	H(WS)	J
	A, A-S, AA, AA-S, B, C, D	40	H(FC)	A
	SA, SB, SC, I, SD	40	H(FC)	A
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Trichlorofluoromethane (75-69-4)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,5-Trichlorophenoxyacetic acid (93-76-5)	GA	35	H(WS)	F
2,4,5-Trichlorophenoxypropionic acid (93-72-1)	A, A-S, AA, AA-S GA	10 0.26	H(WS) H(WS)	G F
1,1,2-Trichloropropane (598-77-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,2,3-Trichloropropane (96-18-4)	A, A-S, AA, AA-S GA	0.04 0.04	H(WS) H(WS)	A A
cis-1,2,3-Trichloropropene (13116-57-9)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
trans-1,2,3-Trichloropropene (13116-58-0)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha,2,4-Trichlorotoluene (94-99-5)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

alpha,2,6-Trichlorotoluene (2014-83-7)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha,3,4-Trichlorotoluene (102-47-6)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha,alpha,2-Trichlorotoluene (88-66-4)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
alpha,alpha,4-Trichlorotoluene (13940-94-8)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,3,4-Trichlorotoluene (7359-72-0)	GA	*	H(W)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,3,5-Trichlorotoluene (56961-86-5)	GA	*	H(W)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,3,6-Trichlorotoluene (2077-46-5)	GA	*	H(W)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,5-Trichlorotoluene (6639-30-1)	GA	*	H(W)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,6-Trichlorotoluene (23749-65-7)	GA	*	H(W)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,1,1-Trichloro-2,2,2-trifluoroethane (354-58-5)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Trifluralin (1582-09-8)	GA	35	H(W)	F
1,2,3-Trimethylbenzene (526-73-8)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				

1,2,4-Trimethylbenzene (95-63-6)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,3,5-Trimethylbenzene (108-67-8)	A, A-S, AA, AA-S GA	5 *	H(WS) H(WS)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
sym-Trinitrobenzene (99-35-4)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,3,4-Trinitrotoluene (602-29-9)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,3,6-Trinitrotoluene (18292-97-2)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,5-Trinitrotoluene (610-25-3)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
2,4,6-Trinitrotoluene (118-96-7)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
3,4,5-Trinitrotoluene (603-15-6)	GA	*	H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Triphenyl phosphate (115-86-6)	A, A-S, AA, AA-S, B, C D	4* 40*	A(C) A(A)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
Tritium (CAS No. Not Applicable)	A, A-S, AA, AA-S	*	H(WS)	G
Remark: * 20,000 picocuries per liter; if two or more radionuclides are present, the sum of their annual dose equivalent to the total body or any organ shall not exceed 4 millirems per year.				
Uranyl ion (Cas No. Not Applicable)	GA	5,000	H(WS)	H
Vanadium (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C D	14* 190*	A(C) A(A)	
Remark: * For the waters of the Great Lakes System, the department will substitute a guidance value for the aquatic Type standard if so determined under section 702.15(c) and (d) of this Title.				
Aquatic Type standards apply to acid-soluble form.				
Vinyl chloride (75-01-4)	GA	2	H(WS)	G

1,2-Xylene (95-47-6)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,3-Xylene (108-38-3)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
1,4-Xylene (106-42-3)	A, A-S, AA, AA-S GA	5 *	H(W) H(W)	I J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
Zinc (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C A, A-S, AA, AA-S, B, C, D SA, SB, SC, I SD	* ** 66 95	A(C) A(A) A(C) A(A)	
Remarks: Aquatic Type standards apply to dissolved form. * $\exp(0.85 [\ln(\text{ppm hardness})] + 0.50)$ ** $0.978 \exp(0.8473 [\ln(\text{ppm hardness})] + 0.884)$				
Zineb (12122-67-7)	GA	1.8	H(W)	F
Ziram (137-30-4)	GA	4.2	H(W)	F

Table 2
BASIS OF STANDARDS
(cf. section 703.5)

BASIS CODE	BASIS
A	Oncogenic, Human Health
B	Non-oncogenic, Human Health
F	Former Groundwater Regulations, 6 NYCRR 703.5(a)(3), Human Health or Aesthetics
G	Specific MCL, Human Health or Aesthetics
H	Former Use of or Reference to 10 NYCRR Part 170, Human Health or Aesthetics
I	Principal Organic Contaminant Classes, Human Health
J	Former Groundwater Reference to 10 NYCRR Subpart 5-1, General Standards, Human Health
U	Potable Water, Aesthetics
V	Food Source, Aesthetics

Historical Note

Sec. filed April, 15 1968; repealed, new filed: April 28, 1972; Aug. 2, 1978, amd. filed Nov. 5, 1984; repealed, new filed Aug. 2, 1991; amds. filed: Dec. 10, 1993; Feb. 10, 1998; Mar. 22, 1999; Jan. 17, 2008 eff. 30 days after filing. Amended (f), Tables (1)-(2).

§703.6 Groundwater effluent limitations for discharges to Class GA waters

(a) The groundwater effluent limitations in Table 3 of subdivision (e) of this section and effluent limitations as established by section 702.16(c)(1) of this Title apply to a discharge from a point source or outlet or any other discharge within the meaning of

the Environmental Conservation Law, section 17-0501 that will or may enter the waters of the State. Unless a demonstration is made to the contrary, it shall be presumed that a discharge to the ground or unsaturated zone is a discharge to groundwater. The groundwater effluent limitation is the maximum allowable concentration in micrograms per liter (ug/L), unless otherwise noted.

(b) In addition to the chemical characteristics provided in subdivision (a) of this section, coliform or pathogenic organisms shall not be discharged in amounts sufficient to render groundwaters detrimental to public health, safety or welfare.

(c) The department may establish additional groundwater effluent limitations as set forth in Part 702 of this Title.

(d) The groundwater effluent limitations shall be incorporated in SPDES permits (under Part 750 *et seq.* of this Title) for discharges to groundwaters, where applicable.

(e) *Tables.*

TABLE 3
(cf. section 703.6)
GROUNDWATER EFFLUENT LIMITATIONS
CLASS GA

Substance	CAS No.	Maximum Allowable Concentration (ug/L)
Acetaldehyde	75-07-0	8
Alachlor	15972-60-8	0.5
Aldicarb and Methomyl	116-06-3; 16752-77-5	0.35
Aldrin	309-00-2	Not Detectable
Aluminum	Not Applicable	2,000
Antimony	Not Applicable	6
Arsenic	Not Applicable	50
Asbestos (fibers >10um)	Not Applicable	1.4 x 10 ⁷ (fibers/L)
Atrazine	1912-24-9	7.5
Azinphosmethyl	86-50-0	4.4
Barium	Not Applicable	2,000
Benefin	1861-40-1	35
Benzene	71-43-2	1
Benzo(a)pyrene	50-32-8	Not Detectable
Bis(2-chloroethyl)ether	111-44-4	1.0
bis(2-ethylhexyl)phthalate	117-81-7	5
Bromacil	314-40-9	4.4
Butachlor	23184-66-9	3.5
Cadmium	Not Applicable	10
Captan	133-06-2	18
Carbaryl	63-25-2	29
Carbon disulfide	75-15-0	120
Carbon tetrachloride	56-23-5	5
Chloramben ¹	Not Applicable	50
Chlordane	57-74-9	0.05
Chloride	Not Applicable	500,000

Chlorinated dibenzo-p-dioxins and Chlorinated dibenzofurans ⁷	Not Applicable	7 x 10 ⁻⁷ equivalents of 2, 3, 7, 8 - TCDD
Chloroform	67-66-3	7
Chromium (Hexavalent)	Not Applicable	100
Copper	Not Applicable	400
Cyanide	Not Applicable	400
p,p'-DDD	72-54-8	0.3
p,p'-DDE	72-55-9	0.2
p,p'-DDT	50-29-3	0.2
Diazinon	333-41-5	0.7
1,2-Dibromo-3-chloropropane	96-12-8	0.04
Di-n-butylphthalate	84-74-2	50
Dicamba	1918-00-9	0.44
1,2-Dichlorobenzene	95-50-1	3
1,3-Dichlorobenzene	541-73-1	3
1,4-Dichlorobenzene	106-46-7	3
1,2-Dichloroethane	107-06-2	0.6
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	50
1,2-Dichloropropane	78-87-5	1
1,3-Dichloropropene (sum of cis- and trans- isomers)	542-75-6 (sum of 10061-01-5 and 10061-02-6)	0.4
Dieldrin	60-57-1	0.004
Di(2-ethylhexyl)adipate	103-23-1	20
N,N-Dimethylaniline	121-69-7	1
Diphenylhydrazine	122-66-7	Not Detectable
Diquat	2764-72-9	20
Endrin	72-20-8	Not Detectable
Ethylene dibromide	106-93-4	6 x 10 ⁻⁴
Ethylenethiourea	96-45-7	Not Detectable
Ferbam	14484-64-1	4.2
Fluoride	Not Applicable	3,000
Foaming agents ²	Not Applicable	1,000
Folpet	133-07-3	50
Formaldehyde	50-00-0	8
Heptachlor	76-44-8	0.04
Heptachlor epoxide	1024-57-3	0.03
Hexachlorobenzene	118-74-1	0.04
Hexachlorobutadiene	87-68-3	0.5
alpha-Hexachlorocyclohexane	319-84-6	0.01
beta-Hexachlorocyclohexane	319-85-7	0.04
delta-Hexachlorocyclohexane	319-86-8	0.04
epsilon-Hexachlorocyclohexane	6108-10-7	0.04
gamma-Hexachlorocyclohexane	58-89-9	0.05
Hexachlorophene	70-30-4	See Note 3
Iron ⁴	Not Applicable	600

Kepone	143-50-0	Not Detectable
Lead	Not Applicable	50
Malathion	121-75-5	7.0
Mancozeb	8018-01-7	1.8
Maneb	12427-38-2	1.8
Manganese ⁴	Not Applicable	600
Mercury	Not Applicable	1.4
Methoxychlor	72-43-5	35
2-Methyl-4-chlorophenoxyacetic acid	94-74-6	0.44
Methylene chloride (Dichloromethane)	75-09-2	5
Methyl methacrylate	80-62-6	50
Metolachlor	51218-45-2	10
Mirex	2385-85-5	0.03
Nabam	142-59-6	1.8
Nickel	Not Applicable	200
Nitralin	4726-14-1	35
Nitrate (expressed as N)	Not Applicable	20,000
Nitrate and Nitrite (expressed as N)	Not Applicable	20,000
Nitrilotriacetic acid ⁵	Not Applicable	3
Nitrite (expressed as N)	Not Applicable	2,000
Nitrobenzene	98-95-3	0.4
Octachlorostyrene	29082-74-4	0.2
Oil and Grease	Not Applicable	15,000
Paraquat	4685-14-7	3.0
Parathion and Methyl parathion	56-38-2; 298-00-0	1.5
Pentachloronitrobenzene	82-68-8	Not Detectable
pH	Not Applicable	See Note 6
Phenolic compounds (total phenols)	Not Applicable	2
Phorate and Disulfoton	298-02-2; 298-04-4	Not Detectable
Polychlorinated biphenyls	Not Applicable	0.09
Propachlor	1918-16-7	35
Propanil	709-98-8	7.0
Propazine	139-40-1	16
Selenium	Not Applicable	20
Silver	Not Applicable	100
Simazine	122-34-9	0.5
Styrene	100-42-5	5
Sulfate	Not Applicable	500,000
Sulfide	Not Applicable	1,000
Thiram	137-26-8	1.8
Toxaphene	8001-35-2	0.06
1,1,2-Trichloroethane	79-00-5	1
Trichloroethene	79-01-6	5
2,4,5-Trichlorophenoxyacetic acid	93-76-5	35
2,4,5-Trichlorophenoxypropionic acid	93-72-1	0.26

1,2,3-Trichloropropane	96-18-4	0.04
Trifluralin	1582-09-8	35
Vinyl chloride	75-01-4	2
Zinc	Not Applicable	5,000
Zineb	12112-67-7	1.8
Ziram	137-30-4	4.2

1. Includes related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.
2. Foaming agents determined as methylene blue active substances (MBAS) or other tests as specified by the commissioner.
3. Refer to groundwater effluent limitation for "Phenolic compounds (total phenols)".
4. Combined concentration of iron and manganese shall not exceed 1000 ug/L.
5. Includes related forms that convert to nitrilotriacetic acid upon acidification to a pH of 2.3 or less.
6. pH shall not be lower than 6.5 or the pH of the natural groundwater, whichever is lower, nor shall be greater than 8.5 or the pH of the natural groundwater, whichever is greater.
7. Value is for the total of the chlorinated dibenzo-p-dioxins and chlorinated dibenzofurans as equivalents of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) as specified by the Class GA H(WS) standard in Table 1 of section 703.5 of this Part.

In addition to the effluent limitations above, the following also apply in the counties of Nassau and Suffolk:

Substance	Maximum Allowable Concentration in mg/L
(1) Dissolved solids, total	1,000
(2) Nitrogen, total (as N)	10

Historical Note

Sec. filed Aug. 2, 1978; repealed, new filed Aug. 2, 1991; amds. filed: Feb. 10, 1998; March 3, 1998; March 22, 1999; Jan. 17, 2008 eff. 30 days after filing. Amended (e), (Table 3).

§703.7 Severability

If any provision of this Part or its application to any person or circumstance is held to be invalid, the remainder of this Part and the application of that provision to other persons or circumstances will not be affected.

Historical Note

Sec. filed Aug. 2, 1978; repealed, new filed Aug. 2, 1991 eff. 30 days after filing.

§703.8-703.11 [Repealed]

Historical Note

Secs. filed Aug. 2, 1978; repealed, filed Aug. 2, 1991 eff. 30 days after filing.

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