74:51:01:01. Definitions. Words and phrases defined in SDCL 34A-2-2, have the same meaning when used in chapters 74:51:01 ~~to~~ through 74:51:03, inclusive. Terms and abbreviations which are not specifically defined shall be construed in conformance with the context and in relation to the applicable section of the standards or the statute concerned. In addition, terms used in chapters 74:51:01 ~~to~~ through 74:51:03, inclusive, are defined as follows:

(1) "Attainable beneficial uses," those beneficial uses which, at a minimum, can be achieved by the imposition of effluent limits required under §§ 74:51:01:07, 74:51:01:08, and 74:51:01:17 ~~to~~ through 74:51:01:21, inclusive, and cost-effective and reasonable best management practices for nonpoint source control;

(2) "Aquatic life," an organism dependent on the water environment to either propagate or survive, or both;

(3) "Aquatic community," an association of interacting populations and stages of aquatic life in a given water body or habitat;

(4) "Best management practices," "BMPs," schedules of activities, prohibitions of practice, maintenance procedures, and other management practices to prevent or reduce the pollution of surface waters of the state on a voluntary basis, including treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge, waste disposal, or drainage from raw material storage;

(5) "Bioaccumulative pollutants," those pollutants which are taken up, retained, or accumulated in the bodies of organisms and are transferred by ingestion in increasing concentrations in the predator organisms to the point that one or more organisms in the food chain suffer significant harm;

(6) "Bioassay," a procedure in which the responses of organisms are used to detect or measure the presence or effect of one or more substances, wastes, effluents, or environmental factors, alone or in combination;

(7) "Biochemical oxygen demand," a standardized laboratory test used to determine the relative oxygen requirements of waters and wastewaters;

(8) "Biological integrity," the ability to support and maintain a balanced, integrated, adaptive community of organisms having a species composition, diversity, and functional organization comparable to that of the natural habitat of the region;

(9) "Black Hills Trout Management Area," defined by the South Dakota Department of Game, Fish and Parks as all the waters in the Black Hills within the following boundary: from the South Dakota-Wyoming state line and the Redwater River (inclusive) to U.S. Highway 85, then south on U.S. Highway 85 to I-90, then southeast on I-90 to U.S. Highway 16T (16B in Rapid City), then south on U.S. Highway 16T to S.D. Highway 79, then south on S.D. Highway 79 to Maverick Junction, then west on Highway 18 to Edgemont, then northwest along the Burlington Northern

Railroad to the South Dakota-Wyoming state line, then north along the state line to the point of the beginning;

(10) "Board," Water Management Board;

(11) "°C," degrees centigrade, a measure of temperature;

(12) "Coldwater aquatic life," aquatic life including fish of the family Salmonidae, for example, trout and salmon;

(13) "Coldwater marginal fish life propagation," a beneficial use assigned to surface waters of the state which support aquatic life and are suitable for stocked catchable-size coldwater fish during portions of the year, but which, because of critical natural conditions including low flows, siltation, or warm temperatures, are not suitable for a permanent coldwater fish population. Warmwater fish may also be present;

(14) "Coldwater permanent fish life propagation," a beneficial use assigned to surface waters of the state which are capable of supporting aquatic life and are suitable for supporting a permanent population of coldwater fish from natural reproduction or fingerling stocking. Warmwater fish may also be present;

(15) "Commerce and industry," a beneficial use assigned to surface waters of the state which are suitable for use as cooling water, industrial process water, navigation, and production of hydroelectric power;

(16) "Criterion," a designated concentration of a substance, measure of a physical factor, or narrative statement that, when not exceeded, will protect an organism, a biological community, or a prescribed beneficial use or water quality;

(17) "Designated beneficial uses," those beneficial uses specified in chapters 74:51:02 and 74:51:03 for each water body or segment whether or not they are being attained;

(18) "Domestic water supply," a beneficial use assigned to surface waters of the state which are suitable for human consumption, culinary or food processing purposes, and other household purposes after suitable conventional treatment;

~~(19) "EPA methods," **Methods for Chemical Analysis of Waters and Wastes**, 1983, Environmental Protection Agency, Analytical Quality Control Laboratory;~~

(~~20~~19) "Epilimnion," in a thermally-stratified waterbody, the upper stratum of the water column. This layer is generally above the thermocline and is typically uniformly warm, circulating, and well mixed;

(~~21~~20) "Existing beneficial uses," those uses actually attained in surface waters of the state on March 27, 1973, whether or not they are so designated;

(~~22~~21) "°F," degrees Fahrenheit, a measure of temperature;

(~~23~~22) "Fish and wildlife propagation, recreation, and stock watering," a beneficial use classification assigned to all surface waters of the state that may support recreation in and on the

water and fish and aquatic life, when sufficient quantities of water are present for sufficient duration to support those uses; that provide habitat for aquatic and semiaquatic wild animals and fowl; that provide natural food chain maintenance; and that are of suitable quality for watering domestic and wild animals;

(~~24~~23) "Geometric mean," the nth root of a product of n factors;

(~~25~~24) "Handbook 69," **Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure**, recommendations of the National Committee on Radiation Protection, **National Bureau of Standards Handbook 69**, (August 1963);

(~~26~~25) "Hypolimnion," in a thermally-stratified waterbody, the bottom layer of water column. This layer is generally below the thermocline and is typically less well mixed (at times, stagnant), colder than the epilimnion, and often of essentially uniform temperature;

(~~27~~26) "Immersion recreation," a beneficial use assigned to surface waters of the state which are suitable for uses where the human body may come in direct contact with the water, to the point of complete submersion and where water may be accidentally ingested or where certain sensitive organs such as the eyes, ears, and nose may be exposed to water;

(~~28~~27) "Impact," a man-induced change in the chemical, physical, or biological quality or condition of surface waters of the state;

(~~29~~28) "Impairment," a detrimental effect on the aquatic community caused by an impact that prevents attainment of the designated use;

(~~30~~29) "Irrigation," a beneficial use assigned to surface waters of the state which are suitable for irrigating farm lands, ranch lands, gardens, and recreational areas;

(~~31~~30) "Lake," a pond, reservoir, or other body of water, created by either natural or artificial means, but not a pond or appurtenance that is used for the treatment and disposal of wastes and that is permitted for such uses;

(~~32~~31) "Limited-contact recreation," a beneficial use assigned to surface waters of the state which are suitable for boating, fishing, and other water-related recreation other than immersion recreation where a person's water contact would be limited to the extent that infections of eyes, ears, respiratory or digestive systems, or urogenital areas would normally be avoided;

(~~33~~32) "Metalimnion," in a thermally stratified waterbody, the middle layer of a water column generally encompassing the thermocline, is typically somewhat mixed and influenced by the epilimnion;

(~~34~~33) "µg/L," micrograms per liter, a measure of concentration;

(~~35~~34) "mg/L," milligrams per liter, a measure of concentration;

(~~36~~35) "micromhos/cm," micromhos per centimeter, a measure of electrical conductivity;

(~~37~~36) "Nonpoint source," a source of pollution that is not defined as a point source;

(~~38~~37) "Parameter," a chemical, physical, or biological characteristic which affects the use of surface waters of the state;

(~~39~~38) "pCi/L," picocuries per liter, a measure of radioactive concentration;

(~~40~~39) "Segment," a continuous stretch of water found between two points in the bed of a stream;

(~~41~~40) "Sodium adsorption ratio," a calculated value that evaluates the sodium hazard of irrigation water based on the Gapon equation and expressed by the mathematical expression:

$$\text{Sodium Adsorption Ratio} = \frac{Na^{+}}{\sqrt{\frac{Ca^{+2} + Mg^{+2}}{2}}}$$

where Na^{+}, Ca^{+2}, and Mg^{+2} are expressed as milliequivalents per liter;

(~~42~~41) "Spawning bed," a place where fish spawn;

(~~43~~42) "Stream," a river, creek, tributary, or other watercourse;

(~~44~~43) "Surface water of the state," lakes, ponds, streams, rivers, wetlands, and any other body or accumulation of water on the land surface that is considered to be waters of the state, but not waste treatment systems, including treatment ponds, lagoons, leachate collection ponds, or stormwater retention ponds designed to meet the requirements of the CWA;

(~~45~~44) "Thermocline," in a thermally-stratified waterbody, the depth range characterized by a rapid change in temperature with depth. A thermocline generally separates a well-mixed surface layer (epilimnion) and a more uniform bottom layer (hypolimnion);

(~~46~~45) "Thirty-day average," the arithmetic mean of a minimum of 3 consecutive grab or composite samples taken on separate weeks in a 30-day period;

(~~47~~46) "Toxic pollutant," a pollutant or combination of pollutants, including disease-causing agents, which, upon exposure, ingestion, inhalation, or assimilation into an organism, either directly from the environment or indirectly by ingestion through food chains, will, on the basis of information available, cause death, disease, behavioral abnormality, cancer, genetic mutation, physiological malfunctions including reproductive malfunction, or physical deformity, in an organism or its offspring;

(~~48~~47) "Warmwater aquatic life," aquatic life including the Ictaluridae, Centrarchidae, and Cyprinidae families of fish, for example, catfish, sunfish, and minnows, respectively;

(~~49~~48) "Warmwater marginal fish life propagation," a beneficial use assigned to surface waters of the state which will support aquatic life and more tolerant species of warmwater fish naturally or by frequent stocking and intensive management but which suffer frequent fish kills because of critical natural conditions;

(~~50~~49) "Warmwater permanent fish life propagation," a beneficial use assigned to surface waters of the state which support aquatic life and are suitable for the permanent propagation or maintenance, or both, of warmwater fish. Stocked coldwater fish may also be present;

(~~51~~50) "Warmwater semipermanent fish life propagation waters," a beneficial use assigned to surface waters of the state which support aquatic life and are suitable for the propagation or maintenance, or both, of warmwater fish but which may suffer occasional fish kills because of critical natural conditions;

(~~52~~51) "Weekly average temperature," the mathematical mean of multiple, equally spaced daily temperature measurements over a 7-day consecutive period, with a minimum of three data points equally spaced throughout each day;

(~~53~~52) "Wetlands," those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions including swamps, marshes, bogs, and similar areas;

(~~54~~53) "Zone of mixing," an area in a stream where an effluent or discharge mixes with the upstream water.

Source: SL 1975, ch 16, § 1; 4 SDR 32, effective December 4, 1977; 5 SDR 21, effective September 21, 1978; transferred from § 34:04:02:01, effective July 1, 1979; 10 SDR 145, effective July 4, 1984; 13 SDR 129, 13 SDR 141, effective July 1, 1987; 14 SDR 86, effective December 24, 1987; 19 SDR 111, effective January 31, 1993; transferred from § 74:03:02:01, July 1, 1996; 24 SDR 10, effective July 20, 1997; 25 SDR 98, effective January 27, 1999; 31 SDR 29, effective September 13, 2004; 35 SDR 253, effective May 12, 2009; 41 SDR 109, effective January 12, 2015.

General Authority: SDCL 34A-2-93.

Law Implemented: SDCL 34A-2-93.

74:51:01:53. Criteria for irrigation waters. The criteria of parameters for irrigation waters and their allowable variations that are not included under § 74:51:01:55 and Appendix B, unless set under § 74:51:01:24, are as found in the following table and only apply April 1 – October 31:

Parameter	Criteria	Unit of Measure	Special Conditions
Conductivity at 25°C	≤ 2,500	micromhos/cm	30-day average
	≤ 4,375	micromhos/cm	daily maximum
Sodium adsorption ratio	≤ 10		see definition

Source: SL 1975, ch 16, § 1; 4 SDR 32, effective December 4, 1977; transferred from § 34:04:02:43, effective July 1, 1979; 10 SDR 145, effective July 4, 1984; 13 SDR 129, 13 SDR 141, effective July 1, 1987; 14 SDR 86, effective December 24, 1987; 19 SDR 111, effective January 31, 1993; transferred from § 74:03:02:43, July 1, 1996; 24 SDR 10, effective July 20, 1997; 47 SDR 110, effective April 27, 2021.

General Authority: SDCL 34A-2-10, 34A-2-11, 34A-2-93.

Law Implemented: SDCL 34A-2-10, 34A-2-11.

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES

WATER POLLUTION CONTROL PROGRAM

TOXIC POLLUTANT CRITERIA

Chapter 74:51:01

APPENDIX B

SEE: § 74:51:01:55

Source: 19 SDR 111, effective January 31, 1993; transferred from Chapter 74:03:02, Appendix C, July 1, 1996; transferred from Chapter 74:51:01, Appendix A, 24 SDR 10, effective July 20, 1997; 25 SDR 98, effective January 27, 1999; 31 SDR 29, effective September 13, 2004; 35 SDR 253, effective May 12, 2009; 41 SDR 109, effective January 12, 2015; 42 SDR 103, effective January 19, 2016; 47 SDR 110, effective April 27, 2021.

SOUTH DAKOTA SURFACE WATER QUALITY STANDARDS[1] FOR TOXIC POLLUTANTS - ARSD 74:51:01

Pollutant	CAS Number	Human Health Value Concentrations in µg/L		Freshwater Aquatic Life Value Concentrations in µg/L Uses 2-3-4-5-6-9	
		Use 1[2]	Uses 2-3-4-5-6-9[3]	Acute (CMC)	Chronic (CCC)
Acenaphthene	83329	70	90		
Acenaphthylene (PAH)[6]	208968				
Acrolein	107028	3	400	3	3
Acrylonitrile[4]	107131	0.061	7.0		
Aldrin[4]	309002	0.00000077	0.00000077	3.0	
Alpha-Hexachlorocyclohexane (HCH)[4]	319846	0.00036	0.00039		
Anthracene (PAH)[5]	120127	300	400		
Antimony	7440360	5.6	640		
Arsenic[4]	7440382	0.018[11]	0.14[11]	340	150
Asbestos[4]	1332214	7,000,000 fibers/L			
alpha-BHC[4]	319846	0.0026	0.0049		
beta-BHC[4]	319857	0.0091	0.017		
Benzene[4]	71432	0.58	16		
Benzidine[4]	92875	0.00014	0.011		
Benzo(a)Anthracene[4]	56553	0.0012	0.013		
Benzo(a)Pyrene[4]	50328	0.00012	0.00013		
Benzo(b)Fluoroanthene[4]	205992	0.0012	0.0013		
Benzo(k)Flouroanthene[4]	207089	0.012	0.013		
Beryllium	7440417	4			
beta-Hexachlorocyclohexane (HCH)	319857	0.0080	0.014		
Bis(2-Chloro-1-methylethyl) Ether	108601	200	4,000		
Bis(2-Chloroethyl) Ether[4]	111444	0.030	2.2		
Bis(2-Ethylhexyl)Phthalate[4]	117817	0.32	0.37		
Bis(Chloromethyl) Ether[4]	542881	0.00015	0.017		
Bromoform[5]	75252	7.0	120		
Butylbenzyl Phthalate[4]	85687	0.10	0.10		
Cadmium	7440439			~~2.0~~ 1.8[7]	~~0.25~~ 0.72[7]
Carbon Tetrachloride[4]	56235	0.4	5		
Chlordane[4]	57749	0.00031	0.00032	2.4	0.0043
Chlorine	7782505			19	11
Chlorobenzene	108907	100	800		
Chlorodibromomethane[4]	124481	0.80	21		
Chloroform[4]	67663	60	2,000		

SOUTH DAKOTA SURFACE WATER QUALITY STANDARDS[1] FOR TOXIC POLLUTANTS - ARSD 74:51:01

Pollutant	CAS Number	Human Health Value Concentrations in µg/L		Freshwater Aquatic Life Value Concentrations in µg/L Uses 2-3-4-5-6-9	
		Use 1[2]	Uses 2-3-4-5-6-9[3]	Acute (CMC)	Chronic (CCC)
Chlorophenoxy Herbicide (2,4-D)	94757	1,300	12,000		
Chlorophenoxy Herbicide (2,4,5-TP) [Silvex]	93721	100	400		
2-Chloronaphthalene	91587	800	1,000		
2-Chlorophenol	95578	30	800		
3-Methyl-4-Chlorophenol	59507	500	2,000		
Chromium(III)	16065831			570[7]	74[7]
Chromium(VI)	18540299			16	11
Chrysene[4]	218019	0.12	0.13		
Copper	7440508	1,300		13[7]	9.0[7]
Cyanide	57125	4[8]	400[8]	22[12]	5.2[12]
Diazinon	333415	0.17	0.17		
4,4'-DDD[4]	72548	0.00012	0.00012		
4,4'-DDE[4]	72559	0.000018	0.000018		
4,4'-DDT[4]	50293	0.000030	0.000030	1.1	0.001
Dibenzo(a,h)Anthracene[4]	53703	0.00012	0.00013		
1,2-Dichlorobenzene	95501	1,000	3,000		
1,3-Dichlorobenzene	541731	7	10		
1,4-Dichlorobenzene	106467	300	900		
3,3'-Dichlorobenzidine[4]	91941	0.049	0.15		
Dichlorobromomethane[4]	75274	0.95	27		
1,2-Dichloroethane[4]	107062	9.9	650		
1,1-Dichloroethylene	75354	300	20,000		
2,4-Dichlorophenol	120832	10	60		
1,2-Dichloropropane[4]	78875	0.90	31		
1,3-Dichloropropene[4]	542756	0.27	12		
Dieldrin[4]	60571	0.0000012	0.0000012	0.24	0.056
Diethyl Phthalate	84662	600	600		
2,4-Dimethylphenol	105679	100	3,000		
Dimethyl Phthalate	131113	2,000	2,000		
Di-n-Butyl-Phthalate	84742	20	30		
Dinitrophenols	25550587	10	1,000		
2-Methyl-4,6-Dinitrophenol	534521	2	30		
2,4-Dinitrophenol	51285	10	300		
2,4-Dinitrotoluene[4]	121142	0.049	1.7		
1,2-Diphenylhydrazine[4]	122667	0.03	0.2		
alpha-Endosulfan	959988	20	30	0.22	0.056

SOUTH DAKOTA SURFACE WATER QUALITY STANDARDS[1] FOR TOXIC POLLUTANTS - ARSD 74:51:01

Pollutant	CAS Number	Human Health Value Concentrations in µg/L		Freshwater Aquatic Life Value Concentrations in µg/L Uses 2-3-4-5-6-9	
		Use 1[2]	Uses 2-3-4-5-6-9[3]	Acute (CMC)	Chronic (CCC)
beta-Endosulfan	33213659	20	40	0.22	0.056
Endosulfan Sulfate	1031078	20	40		
Endrin	72208	0.03	0.03	0.086	0.036
Endrin Aldehyde	7421934	1	1		
Ethylbenzene	100414	68	130		
Fluoranthene	206440	20	20		
Fluorene[5]	86737	50	70		
Heptachlor[4]	76448	0.0000059	0.0000059	0.52	0.0038
Heptachlor epoxide[4]	1024573	0.000032	0.000032	0.52	0.0038
Hexachlorobenzene[4]	118741	0.000079	0.000079		
Hexachlorobutadiene[4]	87683	0.01	0.01		
gamma-Hexachlorocyclohexane (HCH) [Lindane]	58899	4.2	4.4	0.95	
Hexachlorocyclohexane (HCH) – Technical[4]	608731	0.0066	0.010		
Hexachlorocyclopentadiene	77474	4	4		
Hexachloroethane[4]	67721	0.1	0.1		
Indeno(1,2,3-cd)pyrene[4]	193395	0.0012	0.0013		
Isophorone[4]	78591	34	1,800		
Lead	7439921			65[7]	2.5[7]
Mercury	7439976	0.050	0.051	1.4	0.77[8]
Methyl Chloride[5]	74873				
Methylmercury	22967926		0.3 mg/kg		
Methoxychlor	72435	0.02	0.02		0.03
Methyl Bromide	74839	100	10,000		
Methylene Chloride[4]	75092	20	1,000		
N-Nitrosodimethylamine[4]	62759	0.00069	3.0		
N-Nitrosodi-n-Propylamine[4]	621647	0.0050	0.51		
N-Nitrosodiphenylamine[4]	86306	3.3	6.0		
Nickel	7440020	610	4,600	470[7]	52[7]
Nitrobenzene	98953	10	600		
Nonylphenol	84852153			28	6.6
Pentachlorobenzene	608935	0.1	0.1		
Pentachlorophenol	87865	0.03	0.04	19[6]	15[6]
Phenanthrene[5]	85018				
Phenol	108952	4,000	300,000		
Polychlorinated Biphenyls, PCBs[4][9]		0.000064	0.000064		0.014

SOUTH DAKOTA SURFACE WATER QUALITY STANDARDS[1] FOR TOXIC POLLUTANTS - ARSD 74:51:01					
Pollutant	CAS Number	Human Health Value Concentrations in µg/L		Freshwater Aquatic Life Value Concentrations in µg/L Uses 2-3-4-5-6-9	
		Use 1[2]	Uses 2-3-4-5-6-9[3]	Acute (CMC)	Chronic (CCC)
Pyrene	12900	20	30		
Selenium	7782492	170	4,200	[10]	5.0[8]
Silver	7440224			3.2[7]	
1,2,4,5-Tetrachlorobenzene	95943	0.03	0.03		
2,3,7,8-Tetrachlorodibenzo-p-dioxon (Dioxin)[4]	1746016	5.0E-9	5.1E-9		
1,1,2,2-Tetrachloroethane[4]	79345	0.2	3		
Tetrachloroethylene[4]	127184	10	29		
Thallium	7440280	0.24	0.47		
Toluene	108883	57	520		
Toxaphene[4]	8001352	0.00070	0.00071	0.73	0.0002
1,2-Trans-Dichloroethylene	156605	100	4,000		
1,2,4-Trichlorobenzene	120821	0.071	0.076		
1,1,1-Trichloroethane	71556	10,000	200,000		
1,1,2-Trichloroethane[4]	79005	0.55	8.9		
Trichloroethylene[4]	79016	0.6	7		
2,4,5-Trichlorophenol	95954	300	600		
2,4,6-Trichlorophenol[4]	88062	1.5	2.8		
Vinyl Chloride[4]	75014	0.022	1.6		
Zinc	7440666	7,400	26,000	120[7]	120[7]

SOUTH DAKOTA
Surface Water Quality Standards[1]
for Toxic Pollutants

[1] The aquatic life values for arsenic, cadmium, chromium (III), chromium (VI), copper, lead, mercury (acute), nickel, selenium, silver and zinc given in this document refer to the dissolved amount of each substance unless otherwise noted. All surface water discharge permit effluent limits for metals shall be expressed and measured in accordance with § 74:52:03:16.

[2] This human health value is based on two routes of exposure - ingestion of contaminated aquatic organisms and drinking water.

[3] This human health value is based on one route of exposure - ingestion of contaminated aquatic organisms only.

[4] This substance is classified as a carcinogen with the value based on an incremental risk of one additional instance of cancer in one million persons (10^{-6}).

(5) Those chemicals which are not individually classified as carcinogens but which are contained within a class of chemicals with carcinogenicity as the basis for the criteria derivation for that class of chemicals; an individual carcinogenicity assessment for these chemicals is pending.

(6) For pH-dependent criteria, the value given is an example only and is based on a pH of 7.8. Criteria for each case must be calculated using the following equation taken from National Recommended Water Quality Criteria: 2002 (EPA-822-R-02-047, November 2002):

Pentachlorophenol (PCP), ug/L
Chronic = $e^{[1.005(pH) - 5.134]}$ Acute = $e^{[1.005(pH) - 4.869]}$

(7) For hardness-dependent criteria in ug/L, the value given is an example only and is based on a $CaCO_3$ hardness of 100 mg/L. Criteria for each case must be calculated using the following equations taken from National Recommended Water Quality Criteria: http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm#hhtable~~, June 2013~~:

Cadmium, ug/L
Chronic = (*~~0.909~~ CF)$e^{(~~0.7409~~ 0.7977[ln(hardness)]-~~4.719~~ 3.909)}$
Acute = (*~~0.944~~ CF)$e^{(~~1.0166~~ 0.9789[ln(hardness)]-~~3.924~~ 3.866)}$

*Conversion factors are hardness-dependent. The values shown are with a hardness of 100 mg/L as calcium carbonate ($CaCO_3$). Conversion factors (CF) (from total to dissolved) for any hardness can be calculated using the following equations:

Chronic: CF = 1.101672 - [(ln hardness)(0.041838)]
Acute: CF = 1.136672 - [(ln hardness)(0.041838)]

Chromium (III), ug/L
Chronic = (0.860)$e^{(0.8190[ln(hardness)]+0.6848)}$ Acute = (0.316)$e^{(0.8190[ln(hardness)]+3.7256)}$

Copper, ug/L
Chronic = (0.960)$e^{(0.8545[1n(hardness)]-1.702)}$ Acute = (0.960)$e^{(0.9422[ln(hardness)]-1.700)}$

Lead, ug/L
Chronic = (*~~0.791~~ CF)$e^{(1.273[ln(hardness)]-4.705)}$
Acute = (*~~0.791~~ CF)$e^{(1.273[ln(hardness)]-1.460)}$

*Conversion factors are hardness-dependent. The values shown are with a hardness of 100 mg/L as calcium carbonate ($CaCO_3$). Conversion factors (CF) (from total to dissolved) for any hardness can be calculated using the following equations:

Acute and Chronic: CF = 1.46203 - [(ln hardness)(0.145712)]

Nickel, ug/L
Chronic = (0.997)$e^{(0.8460[ln(hardness)]+0.0584)}$ Acute = (0.998)$e^{(0.8460[ln(hardness)]+2.255)}$

Silver, ug/L
Acute = (0.85)$e^{(1.72[ln(hardness)]-6.59)}$

Zinc, ug/L
Chronic = (0.986)$e^{(0.8473[ln(hardness)]+0.884)}$ Acute = (0.978)$e^{(0.8473[ln(hardness)]+0.884)}$

(8) These criteria are based on the total-recoverable fraction of the metal.

(9) This criterion applies to total pcbs, (e.g. the sum of congener or all isomer or homolog or Aroclor analyses).

(10) The (0.996)CMC = 1/[fl/CMC1) + (f2/CMC2)] where f1 and f2 are the fractions of total selenium that are treated as selenite and selenate, respectively, and CMC1 and CMC2 are 185.9 μg/L and 12.82 μg/L, respectively.

(11) This criterion for arsenic refers to the inorganic form only.

(12) This criterion for cyanide is expressed as free cyanide.

74:51:02:04. Uses of certain lakes. Lakes covered by §§ 74:51:02:02 and 74:51:02:03 include the following:

County	Waterbody	State Lake Identifier	Uses
Aurora	Crystal	LJA-Lake-340-000	6
	Fish	LJA-Lake-655-000	6
	Frazer, also known as Fraser Dam	LJA-Lake-18-000	5
	Hansons	FTR-Lake-5652-000	6
	Jail Pond, also known as Plankinton Community Fishing Pond	LJA-Lake-774-000	6
	New Stickney, also known as Nelson	LJA-Lake-772-000	4
	Old Stickney	LJA-Lake-55-000	6
	Patton	FTR-Lake-5113-000	3
	White	FTR-Lake-5129-000	6
	Wilmarth	LJA-Lake-233-000	4
Beadle	~~Bergers~~	~~MJA-Lake-638-000~~	~~5~~
	Byron	MJA-Lake-531-000	5,10
	Cavour	MJA-Lake-532-000	6
	Mud, includes Conners and Spring	MJA-Lake-531-001	6
	Ravine	MJA-Lake-540-000	5
	Staum	MJA-Lake-354-000	5
	Stoney Run	MJA-Lake-317-000	6
Bennett	Allan Dam	UWH-Lake-19-000	3
	Allen	LIW-Lake-143-000	2
	Bad Hair	MWH-Lake-38-000	5
	Cedar Creek No. 1	LIW-Lake-9-000	2
	Cedar Creek No. 2	LIW-Lake-9-001	2
	Jacquot, also known as Risse	MWH-Lake-41-000	4
	LaCreek National Wildlife Refuge Pool 1	LIW-Lake-289-000	6
	LaCreek National Wildlife Refuge Pool 2	LIW-Lake-292-000	6
	LaCreek National Wildlife Refuge Pool 3	LIW-Lake-291-000	6
	LaCreek National Wildlife Refuge Pool 4	LIW-Lake-290-000	6
	LaCreek National Wildlife Refuge Pool 5	LIW-Lake-147-000	6
	LaCreek National Wildlife Refuge Pool 6	LIW-Lake-286-000	6
	LaCreek National Wildlife Refuge Pool 7	LIW-Lake-288-000	6
	LaCreek National Wildlife Refuge Pool 8	LIW-Lake-287-000	6
	LaCreek National Wildlife Refuge Pool 9	LIW-Lake-28-000	6
	LaCreek National Wildlife Refuge Pool 10	LIW-Lake-27-000	5
	Little White River Project Dam	LIW-Lake-8-000	4
	Scharman	MWH-Lake-68-000	4
Bon Homme	Bucholz WPA	LCL-Lake-62-000	6, no 7
	Clear	LCL-Lake-9-000	6
	Cosby WPA	~~LCL-Lake-60-000~~ LCL-Lake-60-001	6, no 7
	Hieb WPA	LCL-Lake-60-000	6, no 7
	Henry	LJA-Lake-588-000	4

County	Waterbody	State Lake Identifier	Uses
	Kloucek	LJA-Lake-490-000	6
	Schaefer WPA	LCL-Lake-63-000	6, no 7
	Tyndall Kids Pond	LCL-Lake-71-000	6
Brookings	Campbell	MBS-Lake-234-000	6
	East 81 Lake	MBS-Lake-233-001	4
	Goldsmith	MBS-Lake-236-000	6
	Hendricks	LQP-Lake-23-000	5
	Johnson Pond, also known as Interstate Urban Fishing Pond	MBS-Lake-278-000	5
	Oak	LQP-Lake-68-000	6
	East Oakwood	MBS-Lake-215-001	5
	North Oakwood, also known as Johnson Lake	MBS-Lake-215-702	5
	West Oakwood, also known as Tetonkaha	MBS-Lake-215-700	5
	Sinai	MBS-Lake-232-000	4
Brown	Elm	ELM-Lake-5-000	1,4
	Elm River No. 1	ELM-Lake-190-001	1,6
	Elm River No, 2, also known as Ordway Dam	~~ELM-Lake-190-001~~ ELM-Lake-190-000	1,6
	Elm River No. 4	ELM-Lake-190-002	1,6
	Frederick	ELM-Lake-189-000	6
	Pigors	MUD-Lake-281-000	5
	Richmond	UJA-Lake-831-000	4
	Sand, which includes Mud Lake and Columbia Road Reservoirs	UJA-Lake-803-000	6
	Tacoma Park	UJA-Lake-1218-000	6
	Tollefson	MJA-Lake-343-000	6
	Wiley Park	UJA-Lake-836-000	6
	Willow Creek Dam	ELM-Lake-11-000	1,5
Brule	American	FTR-Lake-5577-000	6
	Sharping	FTR-Lake-5167-000	6
	Sixteen	FTR-Lake-5436-000	6
	Wanalain	FTR-Lake-5333-000	5
	Wells	CRW-Lake-141-000	5
Buffalo	Koch	CRW-Lake-454-000	5
Butte	Newell	LBF-Lake-528-000	4
	Newell City Pond	LBF-Lake-479-000	3
	Orman Dam, also known as Belle Fourche Reservoir	LBF-Lake-768-000	4,10
Campbell	Campbell	WMC-Lake-891-000	5
	Chester, also known as Boor	ULO-Lake-460-000	6
	Pocasse	ULO-Lake-302-000	4
Charles Mix	~~Academy~~	~~FTR-Lake-5208-000~~	~~4~~
	Andes	FTR-Lake-6099-000	6
	Dante	LCL-Lake-33-000	4
	Dowd	FTR-Lake-6087-000	6
	Geddes	FTR-Lake-6083-000	5

County	Waterbody	State Lake Identifier	Uses
	Platte	FTR-Lake-5745-000	6
	Song Hawk	LCL-Lake-47-000	4
	Wagner	LCL-Lake-64-001	5
Clark	Antelope Lake	MBS-Lake-65-701	5
	Bailey	UBS-Lake-88-000	6
	Fordham	MJA-Lake-91-000	6
	Indian Springs	MBS-Lake-65-000	4
	Logan, also known as Paine	MJA-Lake-188-000	6
	Reid	UBS-Lake-76-000	6
	Round	UBS-Lake-76-001	6
	Willow	MBS-Lake-121-003	6
Clay	Burbank	LCL-Lake-52-000	5
Codington	Bramble Pond	UBS-Lake-639-000	6
	Dry	UBS-Lake-106-001	6
	Grass	UBS-Lake-106-000	6
	Kampeska	UBS-Lake-171-000	1,4
	Kampeska Trout Pond	UBS-Lake-171-001	4
	Pelican	UBS-Lake-173-000	5
	Punished Woman	UMN-Lake-610-000	5
	Round	UMN-Lake-610-001	6
Corson	Bohle	GRA-Lake-632-000	5
	East McIntosh	GRA-Lake-16-000	6
	East Morristown, also known as Railroad Dam	CED-Lake-55-000	5
	Kellers	ULO-Lake-74-000	5
	Mallard	GRA-Lake-993-000	5
	McGee	GRA-Lake-513-000	5
	West McIntosh	GRA-Lake-184-000	6
	West Morristown	CED-Lake-41-000	5
	Pudwell, also known as McCarthy	GRA-Lake-511-000	4
	Tetanka	GRA-Lake-914-000	4
	Trail City	ULO-Lake-765-000	5
Custer	Berner Dam	MCS-Lake-165-000	6
	Bitmore, also known as Lakota	MCS-Lake-2-000	3
	Bismarck	MCS-Lake-7-000	3
	Butler	MCS-Lake-17-000	3
	Center	MCS-Lake-1-000	2
	Custer Municipal	MCS-Lake-24-000	3
	Legion	MCS-Lake-3-000	3
	Pilgrim	MCS-Lake-182-000	3
	Stockade	MCS-Lake-12-000	3
	Sylvan	MCS-Lake-4-000	2
Davison	Mitchell	LJA-Lake-623-000	1,4
Day	Amsden	MUD-Lake-22-000	4
	Anderson	UBS-Lake-248-000	6
	Bitter	UBS-Lake-409-000	4
	Blue Dog	UBS-Lake-411-003	4

County	Waterbody	State Lake Identifier	Uses
	Campbell Slough	UBS-Lake-196-001	6
	Enemy Swim	UBS-Lake-196-000	4
	Minnewasta	UBS-Lake-411-705	5
	North Waubay	UBS-Lake-411-700	5
	Pickeral	UBS-Lake-358-000	4
	Pierpont	MUD-Lake-43-000	4
	Rush	UBS-Lake-411-001	6
	South Waubay	UBS-Lake-411-000	5
	Unnamed lake west of Bristol in Sections 26, 27 and 35 in T122N, R58W	MUD-Lake-351-002 and 011	4
Deuel	Alice	UMN-Lake-710-000	5
	Briggs	LQP-Lake-6-000	6
	Bullhead	UBS-Lake-320-000	5
	Clear	MBS-Lake-138-000	6
	Cochrane	LQP-Lake-56-000	4
	Coteau South	MBS-Lake-131-000	6
	Fish	LQP-Lake-14-000	6
	Francis	LQP-Lake-34-000	6
	Ketchum	MBS-Lake-133-000	5
	Lone Tree	LQP-Lake-1-000	6
	Oliver	LQP-Lake-8-000	6
	Round	UBS-Lake-320-001	6
	School	UBS-Lake-322-001	6
Dewey	Adams	LMO-Lake-871-000	5
	Dewberry	LMO-Lake-1087-000	4
	Eagle Butte	LMO-Lake-999-000	4
	Firesteel	GRA-Lake-525-000	6
	~~Goose Creek~~	~~LMO-Lake-1141-000~~	~~5~~
	Isabel	GRA-Lake-613-000	1,4
	Jewett	LMO-Lake-831-000	6
	Lantry	LMO-Lake-755-000	4
	Little Moreau No. 1	LMO-Lake-1058-000	4
	Little Moreau No. 2	LMO-Lake-1057-000	2
	Little Moreau No. 3	LMO-Lake-1106-000	6
	Peach	LMO-Lake-767-000	6
	Rockcowen	LMO-Lake-759-000	5
	~~Whitehorse~~	~~LMO-Lake-1835-000~~	~~5~~
Douglas	Armour Kids Fishing Pond	LCL-Lake-21-000	6
	Corsica	LCL-Lake-16-000	5
Edmunds	Bowdle-Hosmer	WMC-Lake-125-000	6
	Kraft	NFS-Lake-918-000\	6
	Loyalton, also known as Stafford	NFS-Lake-874-000	5
	North Scatterwood	SNK-Lake-435-000	6
	Mina, also known as Parmley	SNK-Lake-23-001	4
	~~Picton~~	~~NFS-Lake-1008-000~~	~~6~~
	Rosette	SNK-Lake-26-000	6

County	Waterbody	State Lake Identifier	Uses
Fall River	Angostura	ANR-Lake-4-000	4,10
	~~Bochart~~	~~MCS-Lake-180-000~~	~~6~~
	Coffee	ANR-Lake-62-000	5
	Coldbrook	MCS-Lake-5-000	2
	Cottonwood Springs	MCS-Lake-6-000	4
	Crow, also known as Crowe	HAT-Lake-6-000	5
	Dukes	HAT-Lake-26-000	4
	Ebersol	MCS-Lake-91-000	5
	Edgemont Airport North Pond	ANR-Lake-72-000	3
	Edgemont Airport South Pond	ANR-Lake-72-001	5
	~~Ellison~~	~~ANR-Lake-74-000~~	~~5~~
	Fiddle Creek Dam	ANR-Lake-50-000	4
	Five, also known as Fire	ANR-Lake-75-000	5
	Indians South 1	HAT-Lake-25-000	4
	Limestone Butte, also known as Oelrichs Dam	UWH-Lake-6-000	6
	Old Pioneer	UWH-Lake-139-000	5
	Otto	ANR-Lake-68-000	2
	~~Ray~~	~~MCS-Lake-179-000~~	~~5~~
	Sandoz	UWH-Lake-85-000	6
	Sherberth	MCS-Lake-167-000	5
	Sides	MCS-Lake-130-000	5
	South East Highway Canyon	UWH-Lake-53-000	5
	Vanderberg	MCS-Lake-181-000	5
	White	MCS-Lake-76-000	5
	Williams	ANR-Lake-22-000	5
Faulk	Cresbard	NFS-Lake-820-000	5
	Faulkton	SNK-Lake-196-000	5
	Hamak	NFS-Lake-826-000	6
	Latham	SNK-Lake-202-000	6
	Scatterwoods, also known as Scatterwood South	SNK-Lake-435-001	6
	Voegler	SNK-Lake-209-000	6
Grant	Blue Cloud Abbey	UMN-Lake-827-000	5
	Farley	UMN-Lake-517-000	6
	Hunter Granite Quarry	UMN-Lake-850-000	2
	LaBolt	UMN-Lake-1584-000	4
	Summit	UMN-Lake-697-000	5
Gregory	Berry	PON-Lake-89-000	4
	~~Burch, also known as Dixon~~	~~FTR-Lake-5039-000~~	~~5~~
	Burke	FTR-Lake-3197-000	5
	Fairfax	FTR-Lake-5880-000	5
	Herrick, also known as Spendor	PON-Lake-75-000	5
	Ponca, also known as Indian	PON-Lake-142-000	5
	Star	PON-Lake-222-000	6
Haakon	Kroetche	LCH-Lake-374-000	4
	Ottumwa	BAD-Lake-1145-000	6

County	Waterbody	State Lake Identifier	Uses
	Sunshine	BAD-Lake-204-000	4
	Waggoner	BAD-Lake-2426-000	1,4
Hamlin	Clear	UBS-Lake-175-001	6
	Dry	MBS-Lake-405-001	6
	Florence	MBS-Lake-405-002	6
	John, also known as St. John	MBS-Lake-176-701	6
	Marsh	MBS-Lake-160-000	6
	Mary	MBS-Lake-176-002	6
	Norden	MBS-Lake-176-001	6
	Poinsett	MBS-Lake-405-000	5
Hand	Crystal City Park	TUR-Lake-65-000	6
	Dakotah	TUR-Lake-14-000	3
	Jones	TUR-Lake-64-000	5
	Louise	TUR-Lake-155-000	5
	Pearl	MJA-Lake-28-000	5
	~~Rose Hill~~	~~MJA-Lake-614-000~~	~~4~~
Hanson	Alexandria Quarry	LJA-Lake-565-000	2
	Eli	LJA-Lake-678-000	5
	Ethan	LJA-Lake-621-000	5
	Fulton	LJA-Lake-539-000	6
	Hanson	LJA-Lake-425-000	5
	Long	LJA-Lake-714-000	6
Harding	Buffalo, also known as ~~Gardener~~ Gardner	SFG-Lake-581-000	4
	Hanson	NFG-Lake-184-000	3
	Jacobi	SFG-Lake-64-000	3
	Ledger East	SFM-Lake-64-000	6
	Ledger West	SFM-Lake-563-000	5
	Painter	ULM-Lake-220-000	3
	Phillips	UMO-Lake-561-000	3
	Rabbit Creek Dam	UMO-Lake-567-000	5
	Vessey Dam	NFG-Lake-295-000	3
Hutchinson	Dimock	LJA-Lake-34-000	5
	Menno	LJA-Lake-52-000	5
	Silver	VER-Lake-103-000	6
	Tripp	LCL-Lake-24-000	5
Hyde	Boehm	CRW-Lake-891-000	5
	Chapelle	FTR-Lake-3578-001	5
	Holabird	MKN-Lake-242-000	6
	Mission, also known as Stephan or as Ambrose	CRW-Lake-1035-000	6
	Peno	CRW-Lake-48-000	5
	Quirk	CRW-Lake-843-000	5
Jackson	Andrews	BAD-Lake-850-000	6
	Bashen, also known as Bresham	BAD-Lake-854-000	4
	Belevidere	BAD-Lake-1438-000	5
	Brooke No. 1	BAD-Lake-1301-000	4
	Cottonwood Range	BAD-Lake-903-000	4

County	Waterbody	State Lake Identifier	Uses
	Ditmar, also known as Dithmer	MWH-Lake-239-000	5
	Freeman	BAD-Lake-1459-000	4
	Kadoka	BAD-Lake-2118-000	6
	May	MWH-Lake-295-000	5
	Poor Bear	MWH-Lake-60-000	2
	Wheeler No. 1	BAD-Lake-2639-000	4
	Wheeler No. 2	BAD-Lake-2288-000	4
Jerauld	Crow	CRW-Lake-767-000	6
Jones	Draper Dam	MED-Lake-32-000	5
	Murdo	BAD-Lake-2898-000	4
	Murdo Railroad Dam	LWH-Lake-1079-002	5
	National Grasslands Trout Dam		3
	Okaton	BAD-Lake-2188-000	5
	Richland	BAD-Lake-280-000	4
Kingsbury	Agnew	MJA-Lake-419-000	6
	Albert	MBS-Lake-176-000	6
	Arlington Kid's Pond	MBS-Lake-624-000	6
	Badger	MBS-Lake-12-000	6
	Cherry	LKT-Lake-96-000	6
	Henry	LKT-Lake-55-003	6
	~~Iroquois~~	~~MJA-Lake-640-000~~	~~6~~
	Osceola	MJA-Lake-322-000	6
	Spirit	LKT-Lake-95-000	6
	Thisted	MBS-Lake-11-000	6
	Thompson	LKT-Lake-55-000	4
	West 81 Lake, also known as Twin	MBS-Lake-233-000	4
	Whitewood	LKT-Lake-55-002	6
Lake	Badus	MBS-Lake-238-000	6
	Bourne Slough	LBS-Lake-135-004	6
	Brandt	LBS-Lake-135-001	4
	Green	MBS-Lake-221-000	6
	Herman	LBS-Lake-136-000	5
	Long	LBS-Lake-137-000	6
	Madison	LBS-Lake-135-000	4
	Mud Lakes	MBS-Lake-243-000	6
	Round	LBS-Lake-135-002	6
	Winfred	VER-Lake-134-000	6
Lawrence	Columbia	RED-Lake-24-000	3
	Coxes	RED-Lake-6-000	1,2
	Dalton	MCE-Lake-3-000	2
	Dumont Ponds	RAP-Lake-35-000	3
	Iron Creek	RED-Lake-8-000	2
	Mirror 1	RED-Lake-5-000	2
	Mirror 2	RED-Lake-5-001	
	Reausaw	MCE-Lake-4-000	3
	Roubaix	MCE-Lake-5-000	2

County	Waterbody	State Lake Identifier	Uses
	Strawberry Hill Pond	LBF-Lake-800-000	3
	Swede Gulch Beaver Pond	RAP-Lake-57-000	3
	Yates Ponds	RED-Lake-10-000	2
Lincoln	Alvin	LBS-Lake-180-000	4
	Pattee Creek Watershed Reservoir No. 1, also known as Lakota	LBS-Lake-181-000	4
	Pattee Creek Watershed Reservoir No. 2	LBS-Lake-42-000	5
Lyman	Brakke	MED-Lake-667-000	4
	Byre	MED-Lake-25-000	4
	Dybing	MED-Lake-654-000	4
	Fate	MED-Lake-638-000	4
	~~Fenenga~~	~~FTR-Lake-6328-000~~	~~6~~
	~~Jackson~~	~~LWH-Lake-2307-000~~	~~6~~
	~~Kennebec~~	~~MED-Lake-760-000~~	~~6~~
	Knudtson	MED-Lake-564-000	5
	Larson	FTR-Lake-4666-000	5
	National Grasslands Dam (Ft. Pierre National Grassland Dam), also knows as Trout	BAD-Lake-320-000	4
	Reliance	FTR-Lake-3897-000	4
McCook	Baureles, also known as Schultz	LJA-Lake-751-001	6
	Forsch	LJA-Lake-749-000	6
	Gross	LJA-Lake-745-000	6
	Jansen	LJA-Lake-298-000	6
	Lerhman	LJA-Lake-725-000	6
	Sabers	LJA-Lake-374-000	6
	Schimmels	LJA-Lake-743-001	6
	Tuschens	LJA-Lake-743-000	6
	Vermillion	VER-Lake-62-000	4
McPherson	Eureka No. 1	WMC-Lake-1372-002	5
	Eureka No. 2	WMC-Lake-1372-000	5
	Hillview	WMC-Lake-133-002	6
	Leola	UJA-Lake-756-000	6
	Long	WMC-Lake-521-000	6
	Rau, also known as Rath	WMC-Lake-774-003	6
	Twin	WMC-Lake-526-000	6
	Wolff	ULO-Lake-683-000	5
Marshall	Abraham	WWR-Lake-260-000	6
	Almos	~~UJA-Lake-917-003~~ UJA-Lake-917-701	6
	Buffalo North	UJA-Lake-917-800	5
	Buffalo South	UJA-Lake-917-000	5
	Bullhead	UJA-Lake-866-022	5
	Cattle/Kettle Lake System	UJA-Lake-866-000	6
	Clear	UJA-Lake-917-001	4
	Cottonwood	UJA-Lake-882-000	5
	Crystal, also known as Howley	UJA-Lake-416-000	6

County	Waterbody	State Lake Identifier	Uses
	Dumarce	UJA-Lake-881-000	6
	Emma	UJA-Lake-60-000	6
	Flat	WWR-Lake-78-000	6
	Four Mile	UJA-Lake-866-007	6
	Goodbird	UJA-Lake-890-000	6
	Grays, also known as Grey	UJA-Lake-891-000	6
	Hickman	UJA-Lake-458-000	5
	High	WWR-Lake-63-000	5
	Hills	UMN-Lake-304-000	6
	Hoop	UJA-Lake-880-001	6
	Horseshoe	UJA-Lake-866-015	6
	Isabella	UJA-Lake-917-005	6
	Island	UJA-Lake-900-000	6
	Long	UJA-Lake-892-000	6
	Lost	UJA-Lake-866-021	6
	Martha	UJA-Lake-967-000	6
	Mud	UJA-Lake-891-001	6
	Nine Mile	UJA-Lake-882-001	5
	Red Iron North	UJA-Lake-917-004	6
	Red Iron South	UJA-Lake-917-002	4
	Roy	UJA-Lake-866-001	4
	Sarah	UJA-Lake-329-000	6
	Simons	UJA-Lake-259-000	6
	Six Mile	UJA-Lake-882-005	6
	Turtle Foot	UMN-Lake-305-000	6
	Two Island	UJA-Lake-882-006	6
	White	WWR-Lake-42-000	4
Meade	Bear Butte	LBF-Lake-42-000	5
	Bonita	LBF-Lake-403-000	5
	Choate	CHE-Lake-204-000	6
	Curlew	MCE-Lake-6-000	4
	Durkee	CHE-Lake-516-000	1,4
	Follet	LBF-Lake-100-000	5
	Ft. Meade Bureau of Land Management	LBF-Lake-43-000	3
	Herford	LBF-Lake-516-000	5
	Lundgren	LBF-Lake-208-000	5
	Maurine	UMO-Lake-256-000	5
	Mud Butte	CHE-Lake-111-000	5
	Opal	CHE-Lake-200-000	5
	Pinnocle	CHE-Lake-147-000	5
	Red Owl	CHE-Lake-179-000	5
	Sulphur	CHE-Lake-54-000	5
	Tisdale	MCE-Lake-44-000	5
Mellette	Blackpipe	MWH-Lake-255-000	4
	Deiss	LIW-Lake-21-000	5
	Rohloff	LIW-Lake-43-000	4

County	Waterbody	State Lake Identifier	Uses
	~~Sinclair~~	~~LWH-Lake-2311-000~~	~~6~~
	White River, also known as Putranele	LIW-Lake-207-000	4
Miner	Carthage	MJA-Lake-598-000	4
Minnehaha	Baltic	LBS-Lake-276-000	6
	Beaver	LBS-Lake-70-000	6
	Clear	LBS-Lake-232-000	6
	Covell	LBS-Lake-90-000	6
	Dell Rapids	LBS-Lake-289-000	6
	Diamond	LBS-Lake-223-000	5
	Garretson	LBS-Lake-287-000	6
	Grass	LBS-Lake-82-000	6
	Island	LBS-Lake-213-000	5
	Loss	VER-Lake-10-000	6
	Lost	LBS-Lake-60-000	6
	Scott	LBS-Lake-65-000	6
	Twin Lakes	LBS-Lake-204-000	4
	Wall	LBS-Lake-95-000	5
Moody	Allen	LBS-Lake-123-000	6
	Flandreau	LBS-Lake-110-001	6
	Lester Anderson GPA	LBS-Lake-225-000	6, no 7
Pennington	Alexander, also known as Medicine Mountain Boy Scout Camp	MCS-Lake-72-000	2
	Big Foot	BAD-Lake-2220-000	6
	Bloom	BAD-Lake-482-000	5
	Bruce	MCE-Lake-54-000	5
	Canyon	RAP-Lake-3-000	1,2
	~~Caspers Dam~~	~~BAD-Lake-2647-000~~	~~5~~
	Cement Plant	RAP-Lake-34-000	2
	Conata	MWH-Lake-402-000	6
	Deerfield	RAP-Lake-31-000	2
	Eisenbaum	LCH-Lake-627-000	6
	~~Farmingdale Dam~~	~~RAP-Lake-56-000~~	~~5~~
	Farmingdale National Grasslands	RAP-Lake-8-000	3
	Gage	BAD-Lake-484-000	5
	Hamann	LCH-Lake-54-000	5
	Hanlon	MCS-Lake-184-000	3
	Hoffman	LCH-Lake-71-000	5
	Horsetheif	MCS-Lake-8-000	2
	Imby	UWH-Lake-151-000	6
	Johnson	BAD-Lake-476-000	6
	Kellam Dam	MCE-Lake-108-000	5
	Koopman Dam	MCS-Lake-40-000	3
	Major	MCS-Lake-9-000	3
	Mako Sica	MCE-Lake-56-000	5
	Missle Allotment	BAD-Lake-2213-000	4
	New Underwood	MCE-Lake-8-000	4
	New Wall No. 1	MCE-Lake-9-000	4

County	Waterbody	State Lake Identifier	Uses
	Newton Fork	MCS-Lake-10-000	2
	North White Water	BAD-Lake-1907	4
	Old Wall	MCE-Lake-214-000	5
	Owonka	MCE-Lake-219-000	6
	Pactola	RAP-Lake-1-000	1,2,10
	Pierce	LCH-Lake-108-000	5
	Quinn Dam	BAD-Lake-613-000	5
	Quinn Township Dam	BAD-Lake-2236-000	5
	Rapid City	RAP-Lake-27-000	5
	Richardson	LCH-Lake-159-000	6
	Roosevelt Pond	RAP-Lake-37-000	5
	Scanlon	MCS-Lake-48-000	3
	Schroeder	LCH-Lake-626-000	6
	Schulte	MCE-Lake-217-000	5
	Sheridan	MCS-Lake-11-000	2
	Slate Creek	RAP-Lake-33-000	3
	Smith Dam	LCH-Lake-73-000	5
	Table 71 Dam	MCE-Lake-116-000	5
	Tennyson Dam	BAD-Lake-2235-000	5
	Teuber Dam	LCH-Lake-94-000	5
	U.S.D.A. Trout Dam	BAD-Lake-3556-000	3
	White	MCE-Lake-134-000	5
	Wicksville	MCE-Lake-10-000	4
Perkins	Ada Dam	UMO-Lake-354-000	6
	Coal Springs	LMO-Lake-1689-000	4
	Cole	SFG-Lake-913-000	4
	Dam No. 73 (on National Grasslands)	SFG-Lake-1020-000	3
	Flat Creek	GRA-Lake-767-000	5
	Imogene	UMO-Lake-224-000	6
	Jensen	SFG-Lake-902-000	3
	Johnson	NFG-Lake-81-000	3
	Lemmon State	GRA-Lake-392-000	5
	Lewton	SFG-Lake-873-000	5
	Marshfield	SFG-Lake-897-000	5
	Meadow	SFG-Lake-983-000	6
	Owen Lake	LMO-Lake-397-000	5
	~~Peck~~	~~GRA-Lake-1002-000~~	~~6~~
	Perkins	LMO-Lake-408-001	5
	Reidy	GRA-Lake-92-000	6
	Rowhotham	LMO-Lake-408-000	5
	Seymour	UMO-Lake-40-000	6
	Shadehill	SFG-Lake-1017-000	4,10
	Sorum Dam	UMO-Lake-25-000	5
	Viking	NFG-Lake-166-000	5
	Vobedja	NFG-Lake-132-000	6
	Week's Dam	SFG-Lake-747-000	3

County	Waterbody	State Lake Identifier	Uses
	White Butte	GRA-Lake-683-000	6
	Whitehill	SFG-Lake-752-000	5
Potter	Gorman	LLO-Lake-2397-000	5
	Hurley	LLO-Lake-2201-000	4
	Potts	LLO-Lake-2378-000	5
	Simon	LLO-Lake-2144-000	5
Roberts	Big Stone	UMN-Lake-720-000	4,10
	Drywood North	UMN-Lake-476-000	6
	Drywood South	UMN-Lake-476-005	6
	Hurricane	UBS-Lake-207-000	6
	Mud	BDS-Lake-182-000	6
	One Road	UBS-Lake-345-031	6
	Traverse	BDS-Lake-181-000	4,10
	Whitestone	UMN-Lake-667-000	5
Sanborn	Letcher	LJA-Lake-653-000	6
	Prior, also known as Woonsocket City Park	LJA-Lake-531-000	6
	Twin	LJA-Lake-290-000	5
Oglala Lakota	Denby	UWH-Lake-25-000	2
	Kyle	UWH-Lake-17-000	4
	Oglala	UWH-Lake-101-000	4
	White Clay	UWH-Lake-1-000	4
	~~Wolf Creek~~	~~UWH-Lake-152-000~~	~~2~~
Spink	Bierman	SNK-Lake-372-000	4
	Cottonwood	TUR-Lake-498-000	6
	Dudley	MJA-Lake-461-000	4
	Mirage Dam	MJA-Lake-605-000	4
	Redfield	TUR-Lake-1-000	6
	Timber Creek Dam	MJA-Lake-644-000	6
	Twin	TUR-Lake-589-000	5
Stanley	Hayes	BAD-Lake-3119-000	5
	~~Red Plum~~	~~BAD-Lake-3555-000~~	~~5~~
	Smith Pond (Ft. Pierre National Grassland)	FTR-Lake-3716-000	3
Sully	Cottonwood	LLO-Lake-2428-000	5
	Fuller	LLO-Lake-2464-000	5
	Okobojo	LLO-Lake-2524-000	6,10
	Post	MKN-Lake-148-000	6
	Sully	LLO-Lake-2457-000	6
Todd	Beads	LIW-Lake-161-000	4
	Boarding School	~~LIW-Lake-161-000~~ KYP-Lake-4-000	4
	Chases Woman	LIW-Lake-110-000	2
	Colombe	KYP-Lake-2-000	5
	Eagle Feather, also known as Parmlee	LIW-Lake-23-000	4
	Enemy Woman	LWH-Lake-1878-000	6

County	Waterbody	State Lake Identifier	Uses
	Ghost Hawk	LIW-Lake-106-000	3
	He Dog	LIW-Lake-25-000	4
	Heifer	LIW-Lake-105-000	5
	Hidden Timber	KYP-Lake-34-000	6
	Indian Scout	LIW-Lake-107-000	5
	Ironwood	LIW-Lake-109-000	3
	~~Mission~~	~~KYP-Lake-284-000~~	~~5~~
	Omaha Boy	LIW-Lake-283-000	5
	~~Parmlee~~		~~5~~
	Rosebud	LIW-Lake-108-000	2
	Sharps		2
	~~Spotted Tail~~	~~LIW-Lake-282-000~~	~~3~~
	Swift Bear	LIW-Lake-123-000	4
Tripp	Beaulieu	LWH-Lake-458-000	6
	Big Dog Ear	KYP-Lake-4-000	6
	~~Carter~~	~~LWH-Lake-2310-000~~	~~5~~
	Dog Ear	KYP-Lake-116-000	5
	Irwin	FTR-Lake-3116-000	6
	King	LWH-Lake-529-000	5
	Lone Tree	LWH-Lake-126-000	5
	Rahn	KYP-Lake-122-000	4
	Roosevelt	PON-Lake-203-000	4
	Sinkler	LWH-Lake-1372-000	6
	Snow	LWH-Lake-801-000	6
	Sully	FTR-Lake-5029-000	5
	Sundahl	KYP-Lake-95-000	5
	~~Witten~~	~~LWH-Lake-2309-000~~	~~5~~
	Woolheizer	KYP-Lake-136-000	5
Turner	Marion Kid's Pond	VER-Lake-293-000	6
	Swan	VER-Lake-113-000	5
Union	~~Cole~~	~~LBS-Lake-283-000~~	~~6~~
	McCook	LCL-Lake-5-000	4
	Mud	LCL-Lake-74-000	8 only
	Nixon	LBS-Lake-233-000	6
Walworth	Hiddenwood	WMC-Lake-1312-000	5
	Molstad	ULO-Lake-370-000	4
	Spring	LLO-Lake-239-000	6
	Swan	LLO-Lake-512-000	6
Yankton	Beaver, also known as State	LJA-Lake-371-000	6
	Marindahl	VER-Lake-276-000	4
	Westside Kid's Pond	LCL-Lake-69-000	6
	Yankton	LCL-Lake-72-000	4
Ziebach	Bedner	LMO-Lake-29-000	6
	Buffalo	LCH-Lake-204-000	4
	Glad Valley	GRA-Lake-271-000	5
	Matter	LMO-Lake-197-000	6

County	Waterbody	State Lake Identifier	Uses
	Miller	LCH-Lake-541-000	4
	~~Rattlesnake~~	~~CHE-Lake-676-000~~	~~6~~
	Trent Dam	LMO-Lake-677-000	6

Source: SL 1975, ch 16, § 1; 4 SDR 32, effective December 4, 1977; transferred from § 34:04:03:04, effective July 1, 1979; 13 SDR 129, 13 SDR 141, effective July 1, 1987; 19 SDR 111, effective January 31, 1993; transferred from § 74:03:03:04, July 1, 1996; 41 SDR 109, effective January 12, 2015; SL 2015, ch 56, § 1, effective May 1, 2015; 47 SDR 110, effective April 27, 2021.

General Authority: SDCL 34A-2-10, 34A-2-11, 34A-2-93.

Law Implemented: SDCL 34A-2-10, 34A-2-11.

74:51:03:05. Missouri River and certain small tributaries' beneficial uses. Stream segments of the Missouri River and certain small tributaries covered by § 74:51:03:02 include the following:

Water Body	From	To	Beneficial Uses	County
Missouri River	Iowa Border	~~Big Bend~~ Oahe Dam	1,4,7,8,11	~~Buffalo\Lyman~~ Hughes/Stanley
Missouri River	~~Big Bend~~ Oahe Dam	North Dakota border	1,2,7,8,11	Campbell\Corson
American Creek	Lake Francis Case	Lake Wanalin	6,8	Brule
American Crow Creek	Lake Francis Case	Interstate 90	6,8	Lyman
Bull Creek	Lake Frances Case	the confluence with the West Branch Bull Creek in S25, T100N, R74W	6,8	Tripp
West Branch Bull Creek	Bull Creek	S23, T99N, R74W of the fifth principal meridian	6,8	Tripp
Artichoke Creek	Lake Oahe	S35, T117N, R79W	6,8	Sully
Cedar Creek	Lake Sharpe	S22, T108N, R76W	6,8	Lyman
Chapelle Creek	Lake Sharpe	S36, T111N, R75W	6,8	Hughes
Choteau Creek	Lewis and Clark Lake	S34, T96N, R63W	5,8	Charles Mix
Dante Creek	Choteau Creek	Dante Lake	6,8	Charles Mix
Dry Choteau Creek	Choteau Creek	S.D. Highway 50	6,8	Charles Mix
Crow Creek	Lake Francis Case	S18, T107N, R67W	5,8	Jerauld
Elm Creek	Crow Creek	West Fork Elm Creek	6,8	Buffalo
West Fork Elm Creek	Elm Creek	Stephan Lake	6,8	Hyde
Smith Creek	Crow Creek	Crow Lake	6,8	Jerauld
~~Emanual~~ Emanuel Creek	Lewis and Clark Lake	S20, T94N, R60W	5,8	Bon Homme
Little Cheyenne Creek	Lake Oahe	Lake Hurly	5,8	Potter
Medicine Creek	Lake Sharpe	U.S. Highway 83	6,8	Lyman
Medicine Knoll Creek	Lake Sharpe	confluence with its north and south forks	6,8	Hughes
North Fork Medicine Knoll Creek	confluence with South Fork Medicine Knoll Creek	S7, T114N, R74W	6,8	Sully
South Fork Medicine Knoll Creek	confluence with North Fork Medicine Knoll Creek	S16, T112N, R74W	6,8	Hughes

Water Body	From	To	Beneficial Uses	County
Oak Creek	Lake Oahe	S20, T21N, R28E	6,8	Corson
Okobojo Creek	Lake Oahe	U.S. Highway 83	6,8	Sully
Pease Creek	Lake Francis Case	Lake Geddes	6,8	Charles Mix
Platte Creek	Lake Francis Case	S21, T100N, R67W	6,8	Charles Mix
Ponca Creek	Nebraska border	U.S. Highway 183	5,8	Tripp
Willow Creek	Ponca Creek	S32, T96N, R70W	5,8	Gregory
Snake Creek (Charles Mix County)	Lake Francis Case	Lake Academy	6,8	Charles Mix
Snake Creek (Corson County)	Lake Oahe	Trail City R.R. Lake	6,8	Corson
Spring Creek	Lake Pocasse	U.S. Highway 83	5,8	Campbell
Spring Creek	U.S. Highway 83	State Highway 271	6,8	Campbell
Swan Creek	Lake Oahe	Rieger Creek	5,8	Walworth
Swan Creek	Rieger Creek	Swan Lake	6,8	Walworth
Rieger Creek	Swan Creek	S18, T122N, R76W	6,8	Walworth
South Fork Whetstone Creek	Lake Francis Case	Coon Creek	5,8	Gregory

Source: SL 1975, ch 16, § 1; 4 SDR 32, effective December 4, 1977; transferred from § 34:04:04:04, effective July 1, 1979; 10 SDR 145, effective July 4, 1984; 13 SDR 129, 13 SDR 141, effective July 1, 1987; 14 SDR 86, effective December 24, 1987; 19 SDR 111, effective January 31, 1993; transferred from § 74:03:04:04, July 1, 1996; 24 SDR 10, effective July 20, 1997; 41 SDR 109, effective January 12, 2015; 47 SDR 110, effective April 27, 2021.

General Authority: SDCL 34A-2-10, 34A-2-11, 34A-2-93.

Law Implemented: SDCL 34A-2-10, 34A-2-11.

Note: Certain other segments in the Missouri River Basin are covered in §§ 74:51:03:06 through 74:51:03:26, inclusive.

74:51:03:07. Big Sioux River and certain tributaries' uses. Stream segments of the Big Sioux River and certain tributaries covered by § 74:51:03:02 include the following:

Water Body	From	To	Beneficial Uses	County
Big Sioux River	Missouri River	Sioux Falls Diversion Ditch	5,7,8	Minnehaha
Big Sioux River	Sioux Falls Diversion Ditch	S2, T104N, R49W of the fifth principal meridian	1,5,7,8	Minnehaha
Big Sioux River	S2, T104N, R49W	Brookings-Moody County Line	1,5,8	Brookings/ Moody
Big Sioux River	Brookings-Moody County Line	Lake Kampeska	5,8	Codington
Big Sioux River	Lake Kampeska	S28, T121N, R52W	5,8	Grant
Bachelor Creek	Big Sioux River	S28, T106N, R50W	6,8	Moody
Battle Creek	Big Sioux River	S16, T107N, R52W	6,8	Lake
Beaver Creek (Lincoln County)	Big Sioux River	S9, T98N, R49W	6,8	Lincoln
Beaver Creek (Minnehaha County)	Split Rock Creek	South Dakota - Minnesota border	6,8	Minnehaha
Four Mile Creek	Beaver Creek (Minnehaha County)	South Dakota - Minnesota border	6,8	Minnehaha
Springwater Creek	Beaver Creek (Minnehaha County)	South Dakota - Minnesota border	6,8	Minnehaha
Big Ditch Creek	Big Sioux River	S1,T91N, R50W	5,8	Union
Big Ditch Creek	S1,T91, R50W	S21, T92N, R50W	6,8	Union
Brule Creek	Big Sioux River	confluence of its east and west forks	6,8	Union
East Brule Creek	confluence with Brule Creek	S3, T95N, R49W	6,8	Union
Flandreau Creek	Big Sioux River	Minnesota Border	6,8	Moody
Hidewood Creek	Big Sioux River	U.S. Highway 15	6,8	Deuel
Medary Creek	Big Sioux River	South Dakota - Minnesota border	6,8	Brookings
Deer Creek	Medary Creek	S30, T111N, R47W	6,8	Brookings
Nine Mile Creek	Big Sioux River	Lake Alvin	6,8	Lincoln
No Name Creek, also known as Brookfield Creek, (Brookings and Moody Counties)	Big Sioux River	S22, T104N, R48W	6,8	Brookings
Owens Creek	Blue Dog Lake	S17, T122N, R52W	4,8	Roberts
Pattee Creek	Big Sioux River	Lake Lakota outlet	5,8	Lincoln
Peg Munky Run	Big Sioux River	S17, T113N, R50W	6,8	Deuel
Pickerel Creek (Day County)	Pickerel Lake	Waubay Lake	6,8	Day

Water Body	From	To	Beneficial Uses	County
Park Creek	Bourne Slough	Silver Creek	6,8	Lake
Silver Creek	Park Creek	Lake Herman	6,8	Lake
Six Mile Creek	North Deer Creek	S30, T112N, R48W	6,8	Brookings
College Creek	Big Sioux River	S12, T110N, R50W	6,8	Brookings
North Deer Creek	Big Sioux River	U.S. Highway 15	6,8	Deuel
Skunk Creek	Big Sioux River	outlet of Brant Lake	6,8	Lake
Unnamed tributary Skunk Creek	Skunk Creek	S21, T102N, R51W	6,8	Minnehaha
Willow Creek	Skunk Creek	S16, T102N, R50W	6,8	Minnehaha
Split Rock Creek	Big Sioux River	Minnesota border	5,7,8	Minnehaha
West Pipestone Creek	Split Rock Creek	S33, T105N, R48W	6,8	Minnehaha
Unnamed tributary of West Pipestone Creek	West Pipestone Creek	Confluence with an unnamed tributary in S9, T103N, R48W	5,8	Minnehaha
Unnamed tributary	Unnamed tributary of West Pipestone Creek	EROS outfall in S8, T103N, R48W	5,8	Minnehaha
Slip-Up Creek	Big Sioux River	to its headwaters in S19, T104N, R48W	6,8	Minnehaha /Moody
Pipestone Creek	~~Split Rock Creek~~ S22, T104N, R47W	Minnesota border	5,7,8	Minnehaha
Strayhorse Creek	Big Sioux River	S26, T116N, R51W	6,8	Codington
Spring Creek (Moody County)	Big Sioux River	~~S22, T109, R47W~~ Minnesota border	6,8	Brookings
Jack Moore Creek	Big Sioux River	S33, T107N, R49W	6,8	Moody
Union Creek	Big Sioux River	confluence with East and West Forks	6,8	Union
Indian River	Big Sioux River	U.S. Highway 81	6,8	Grant
Willow Creek	Big Sioux River	S7, T117N, R50W	6,8	Deuel

Source: SL 1975, ch 16, § 1; 4 SDR 32, effective December 4, 1977; transferred from § 34:04:04:06, effective July 1, 1979; 10 SDR 145, effective July 4, 1984; 13 SDR 129, 13 SDR 141, effective July 1, 1987; 19 SDR 111, effective January 31, 1993; transferred from § 74:03:04:06, July 1, 1996; 24 SDR 10, effective July 20, 1997; 31 SDR 29, effective September 13, 2004; 32 SDR 38, effective September 6, 2005; 35 SDR 253, effective May 12, 2009; 41 SDR 109, effective January 12, 2015; 47 SDR 110, effective April 27, 2021.

General Authority: SDCL 34A-2-10, 34A-2-11, 34A-2-93.

Law Implemented: SDCL 34A-2-10, 34A-2-11.