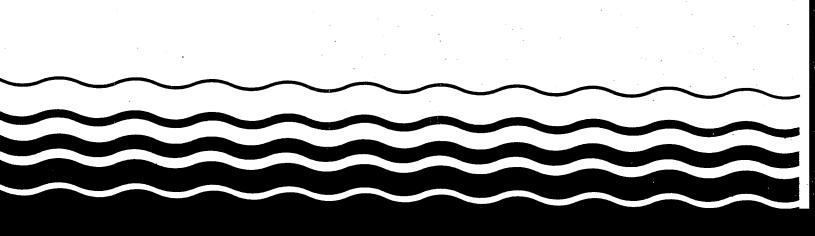
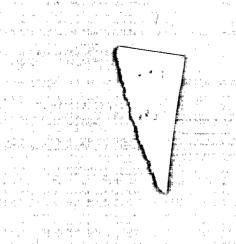
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Water

State Water Quality Standards Summary: Alaska





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The reader should consult the water quality standards of a particular State for exact regulatory language applicable to that State. Copies of State water quality standards may be obtained from the State's Water Pollution Control Agency or its equivalent.

Additional information may also be obtained from the:

Standards Branch
Criteria and Standards Division (WH-585)
Office of Water Regulations and Standards
U.S. Environmental Protection Agency
Washington, D.C. 20460
202-475-7315

This document may be obtained only from the National Technical Information Service (NTIS) at the following address:

National Technical Information Service 5285 Front Royal Road Springfield, Virginia 22161 703-487-4650

The NTIS order number is: PB89-141642

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Responsible Agency:

Alaska Department of Environmental Conservation Div. of Environ. Quality Management Pouch O

Juneau

99811

907-465-2640

Standards Available From: Alaska Dept. of Environmental Conservation Pouch O

Juneau

99811

907-465-2653 Fee: none

Mailing List: yes

State Contact:

Mr. Dan Easton

Manager

Water Pollution Control Program Alaska Dept. of Environ. Conservation

Pouch 0

Juneau

99811

907-465-2653

State Contact:

State Narrative Language For: Antidegradation

- (a) No person may conduct an operation which causes or contributes to a violation of the water quality standards established by this chapter.
- (b) The water quality standards set by this chapter apply to human activities which result in alterations to waters within the jurisdiction of the state. The water quality standards established by this chapter constitute the degree of degradation which may not be exceeded in a water body.
- (c) Waters with natural characteristics of higher quality than the water quality criteria for the uses set out in 18 AAC 70.020 must be kept at the existing quality, except where an applicant for a permit issued or certified under 18 AAC 15, a short-term variance issued under 18 AAC 70.015, or a reclassification granted under 18 AAC 70.055 shows to the department's satisfaction that:
- 1. Reducing water quality is justified because of necessary economic or social development;
- 2. Reducing water quality will not harm present or potential uses of the waters; and
- 3. All wastes and other substances to be discharged will be treated using the methods found by the department to be most effective.
- (d) No person may discharge or cause the discharge of any waste or substance into waters within the jurisdiction of the state without first treating and controlling the discharge to ensure that the quality of the receiving water does not violate the water quality standards set by this chapter.
- (e) The department will, in its discretion, issue a compliance order for activities or sources of waste or substances in existence on December 19, 1982 that cause a violation of the water quality standards set by this chapter. The compliance order must provide a detailed plan to bring the activity into compliance with this section.

State Narrative Language For: Toxics

Shall not exceed Alaska Drinking Water Standards or EPA Quality Criteria for Water as applicable to the substance.

State Narrative Language For: Free From

Petroleum hydrocarbons, oils and grease shall not cause a visible sheen upon the surface of the water. Also, they shall not exceed concentrations which individually or in combination impart odor or taste as determined by organoleptic tests.

Floating solids, debris, sludge, deposits, foam, and scum shall not alone or in combination with other substances or wastes make water unfit or unsafe for use, cause a film, sheen, or discoloration on the surface of the water or adjoining shoreline, cause beaching of toxic or deleterious substances, or cause a sludge, solid emulsion to be deposited beneath or upon the surface of the water within the water column on the bottom or upon adjoining shorelines.

State Narrative Language For: Mixing Zones

(a) In applying the water quality criteria of 18 AAC 70.020, the department (Alaska Dept. of Environmental Conservation) will, in its discretion, prescribe its permits or certifications—a volume of dilution for an

effluent or substance within a receiving water. Water quality standards may be exceeded within this mixing zone. However the standards must be met at every point outside its boundaries. The department will not allow mixing zones if:

- (1) There is significant potential for adverse environmental or health effects due to discharge of a substance that bioaccumulates in food chains; concentrates in sediments, or is persistent, carcinogenic, autagenic or teratogenic, or
- (2) Other potential environmental or health effects are so adverse that a mixing zone is not appropriate. A mixing zone will be granted only after the applicant has shown to the department's satisfaction that wastes or substances that may exceed the water quality criteria limits will be treated using methods found by the department to be most effective.
- (b) The department will, in its discretion, establish effluent limitation requirements in its wastwater disposal permits in lieu of or in addition to a defined mixing zone.
- (c) No individual mixing zone or combination of mixing zones will be permitted to form a barrier to the migratory routes of aquatic species.
- (d) Unless it is demonstrated to the satisfaction of the department, in accordance with (e) of this section, that the size limitations can be increased, mixing zones will be as small as practiable.
- (e) A person conducting an operation for which a mixing zone is sought or required by the department shall submit to the department all information necessary for assignment of a mixing zone.

Classifications:

Drinking, Culinary and Food Processing Fresh Water

Agricultural · Fresh Water

Includes irrigation and stock watering.

Aquaculture Fresh Nater

Industrial Fresh Water

Includes any water supply used in association with a manufacturing or production enterprise (other than food processing) including mining, placer mining, energy production or development.

Contact Recreation Fresh Water

Secondary Recreation Fresh Water

Fish and Wildlife Fresh Water

Growth and propagation of fish, shellfish and other aquatic life, and wildlife including waterfowl and furbearers.

#Abbreviated name for this designated use.

Aquaculture Marine Waters

Seafood Processing Marine Waters

Industrial Marine Waters

Includes any water supply used in association with a manufacturing or production enterprise (other than food processing) including mining, placer mining, energy production or development.

Contact Recreation Marine Water

Secondary Recreation Marine Waters

Fish and Wildlife Marine Waters

Growth and Propagation of fish, shellfish and other aquatic life, and wildlife including seabirds, waterfowl and furbearers. #Abbreviated name for this designated use.

Shellfish Harvesting Marine Waters

Harvesting for consumption of raw mollusks or other aquatic life.

	All Classes	Drin	king, Culi	n Agri	cultural.	Aqua	culture
Physical							
рH							
Upper Value		8.5		9.0			
Lower Value ·		6.0		5.0		8.5 6.5	
Secondary Upper Limit				8.5		6.3	
Dissolved Oxygen				•••			
Lower Value		4	ag/L	· 3	ag/L		
Temperature			-		-9	1	
Upper Value Turbidity		15	C	30	С	20	C
Upper Value		Narr.		Narr.			
Chlorides		114111		narr.		Narr.	
Upper Value		200	eg/L				
Sulfates							
Upper Value		200	eg/L				
Total Dissolved Solids			-			_	
Upper Value		500	eg/L	1000	∎g/L	1500	mg/L
Nutrients							
Toxic Metals			•				
Pesticides					-		
Organics				••			
Bacteria Fecal Coliform Upper Value Secondary Upper Limit		Narr. Narr.		Narr.		Narr.	
. ,,,		uarr.		Narr.		Narr.	

	Indus	trial	Conta	act Recreat	Secondary Recre.	. Fish and Wildli.	•
Physical							
pH .							
Upper Value	9.0		8.5		9.0	9.0	
Lower Value	5.0		6.5		5.0	6.5 ···	
Dissolved Oxygen						0.7	
Upper Value	Narr.			a g/L	a g/L	17 11	
Lower Value			4	eg/L	4 ag/L	17 eg/L 5 eg/L	
Temperature			•	-3	T May/C	5 mg/L	
. Upper Value	. 25	C	30	С		20 Ε	
Turbidity				-		20 6	
Upper Value	Narr.		Narr.	•	Narr.	Narr.	
Total Dissolved Solids						140111	
Upper Value	Narr.					1500 mg/L	
Nutrients							
Toxic Metals						• .	
V.							
Pesticides							
Organics				•			
Bacteria							
Fecal Coliform							
Upper Value	Narr.		Narr.		Narr.		*
Secondary Upper Limit	Narr.		Narr.		Narr.		

	Aquac	ulture	Seafo	od Process	Indus	trial	Conta	ct Recreat
Physical								
pH								·
Upper Value	8.5		8.5		9.0		8.5	
Lower Value	6.5		6.0		5.0		6.5	
Dissolved Oxygen	•							
Lower Value	7	ag/L						
Temperature		•						
Upper Value			15	£	25	C		4
Temperature Change								
Upper Value	1	C						
Secondary Upper Limit	0.5	C						
Turbidity								
Upper Value	25	NTU	Narr.		Narr.		- 25	NTU
Total Dissolved Solids								
Upper Value	1500	ag/L			Narr.			
Nutrients								
Toxic Metals	ŧ							1
Pesticides '								
Organics								• .
Bacteria								
Fecal Coliform								
Upper Value	Narr.		Narr.		Narr.		Narr.	
Secondary Upper Limit	Narr.	,	Narr.		Narr.		Narr.	

	Secon	dary Recre	Fish and Wildli		Shellfish Harv	
Physical		•	•			
. pH · ·						
Upper Value	9.0		8.5		8.5	
Lower Value	5.0		6.5		6.0	
Temperature Change						
Upper Value	•	•	1	C	1	C
Secondary Upper Limit			0.5	C	0.5	Č
Turbidity				-	•••	•
Upper Value	25	NTU	Narr.		Narr.	
Total Dissolved Solids						
Upper Value			1500	eg/L		
Nutrients						
Toxic Metals		•	•			
Pesticides						

Narr.

Narr.

Narr.

Narr.

Organics

Bacteria

Fecal Coliform
Upper Value
Secondary Upper Limit

