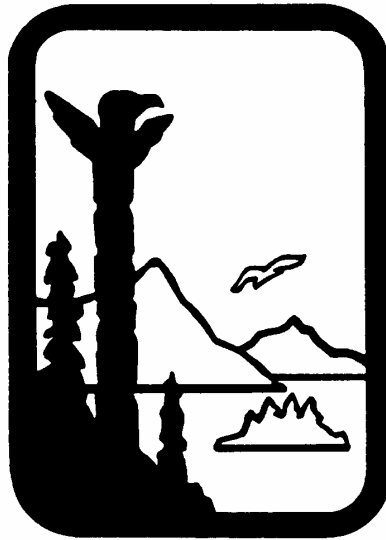


STATE OF ALASKA

**DEPARTMENT OF
ENVIRONMENTAL CONSERVATION**



18 AAC 74

**WATER AND WASTEWATER
OPERATOR CERTIFICATION AND TRAINING**

With Amendments Through December 3, 2006

Frank Murkowski
Governor

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Commissioner

IMPORTANT NOTE TO READER

The regulations in this booklet have been prepared by the Department of Environmental Conservation. They do not constitute an official version of these regulations, nor do they necessarily reflect current law. Any amendments made after the date of this booklet would appear in the published version of the Alaska Administrative Code. If any discrepancy is found between this booklet and the Alaska Administrative Code, the Code should be considered the final authority, unless the discrepancy is the result of a manifest error in the Code

**CHAPTER 74. WATER AND WASTEWATER OPERATOR
CERTIFICATION AND TRAINING.**

**ARTICLE 1. REQUIREMENTS FOR A CLASS I – CLASS IV WATER SYSTEM OR
WASTEWATER SYSTEM.**

Section

- 005. (Expired)
- 006. Applicability
- 010. Supervising operator responsibilities
- 020. Certification requirements
- 030. (Deleted)
- 040. Examination requirements
- 050. Experience and education requirements
- 060. (Repealed)
- 070. (Repealed)
- 080. (Repealed)
- 090. (Repealed)
- 100. (Repealed)
- 110. (Repealed)
- 120. Classification of water and wastewater systems
- 125. Transition for systems increasing in classification
- 130. (Repealed)
- 140. (Repealed)
- 150. (Deleted)
- 160. (Repealed)
- 170. (Repealed)

Editor’s note: The subject matter formerly found in 18 AAC 74.060 – 18 AAC 74.080, 18 AAC 74.100 – 18 AAC 74.120, and 18 AAC 74.160 – 18 AAC 74.170, can now be found in 18 AAC 74.800 – 18 AAC 74.870.

18 AAC 74.005. Transition period for September 1993 examination cycle. Expired.
(In effect 5/29/93 - 9/25/93, by em adop., Register 126)

18 AAC 74.006. Applicability. The requirements of 18 AAC 74.006 – 18 AAC 74.125 apply to a

- (1) public or private wastewater system that
 - (A) has 100 or more service connections; or
 - (B) is used or intended for use by 500 or more individuals per day;
- (2) community or non-transient non-community water system that has 100 or more service connections;

- (3) community or non-transient non-community water system that
 - (A) has 15 or more service connections; and
 - (B) is used or intended for use by 500 or more individuals per day;
- (4) community or non-transient non-community water system that
 - (A) has fewer than 100 service connections;
 - (B) is used or intended for use by fewer than 500 individuals per day; and
 - (C) uses a water treatment process that uses
 - (i) coagulation;
 - (ii) chemically-aided filtration;
 - (iii) membrane filtration; or
 - (iv) the addition of more than one chemical to accomplish multiple water treatment objectives; or
 - (v) a combination of water treatment processes not listed in (i) – (iv) of this subparagraph that, in the department’s determination, require a high level of operator skill; in determining whether a combination of water treatment processes require a high level of operator skill, the department will consider the advice of the board; and
- (5) community or non-transient non-community water system that
 - (A) has fewer than 15 service connections;
 - (B) is used or intended for use by 500 or more individuals per day; and
 - (C) uses a water treatment process that uses
 - (i) coagulation;
 - (ii) chemically-aided filtration;
 - (iii) membrane filtration;
 - (iv) the addition of more than one chemical to accomplish multiple water treatment objectives; or
 - (v) a combination of water treatment processes not listed in (i) – (iv) of this subparagraph that, in the department’s determination, require a high level of operator skill; in determining whether a combination of water treatment processes require a high level of operator skill, the department will consider the advice of the board. (Eff. 1/18/2001, Register 157; am 12/3/2006, Register 180)

Authority: AS 46.30.040 AS 46.30.080 AS 46.30.120

18 AAC 74.010. Supervising operator responsibilities. (a) A public water system, a public wastewater system, and a private wastewater system must be actively supervised as described in (b) of this section each day that the system operates by an operator certified by the department under 18 AAC 74.050 – 18 AAC 74.170. A supervising operator of

(1) a primary operating shift of a system must be certified at a level equal to or greater than the classification of the system under that operator's control;

(2) a secondary operating shift of a system must be certified at no less than one level below that level equal to the classification of the system under that operator's control; a secondary operating shift may not occur on a day without a primary operating shift; and

(3) more than one system must be certified at a level equal to or greater than the highest system classification under that operator's control.

(b) Except as provided in (c) and (d) of this section, a supervising operator described in (a) of this section shall be on-site at the system during normal working hours for that system. If the supervising operator must be absent from the system to attend to system-related business or other routine activities, the supervising operator shall be available to respond by radio or telephone to initiate appropriate action in a timely manner to protect human health, safety, and welfare. After normal working hours, the supervising operator shall be available to respond by radio or telephone.

(c) If the supervising operator cannot be present or available to respond as required in (b) of this section, the system owner shall designate another operator who is certified at the correct level under 18 AAC 74.050 – 18 AAC 74.120 to assume the supervising operator's duties.

(d) Department approval is required for a method of system supervision other than that described in (b) and (c) of this section. The department will approve, with terms and conditions, or will deny a request under this subsection after considering recommendations of the board. (Eff. 8/21/78, Register 67; am 8/24/85, Register 95; am 5/29/93, Register 126; am 1/18/2001, Register 157; am 12/3/06, Register 180)

Authority: AS 46.30.040 AS 46.30.080 AS 46.30.120

18 AAC 74.020. Certification requirements. (a) An individual seeking certification under 18 AAC 74.005 – 18 AAC 74.120 must submit a completed application to the department, for the level of certification sought

(1) on a form provided by the department;

(2) at least 45 days before the date set for an examination under 18 AAC 74.040;

and

(3) accompanied by the fee required by 18 AAC 74.870(a).

(b) The department will certify an applicant who meets the

(1) examination requirements of 18 AAC 74.040;

(2) experience and education requirements of 18 AAC 74.050; and

(3) fee requirements of 18 AAC 74.870. (Eff. 8/21/78, Register 67; am 8/24/85,

Register 95; am 1/18/2001, Register 157)

Authority: AS 46.30.060 AS 46.30.080

18 AAC 74.030. Certification without examination. Deleted 8/24/85.

Editor's notes. -- Under AS 44.62.060(b) and 44.62.125(b), 18 AAC 74.030 was deleted by the regulations attorney 8/24/85 because it lacked statutory authority.

18 AAC 74.040. Examination requirements. (a) To be certified to operate a water or wastewater system classified as class I – class IV under 18 AAC 74.120, an applicant must pass an approved and validated examination that demonstrates the applicant's skills, knowledge, ability, and judgment to operate a system of that classification.

(b) To be eligible to take an examination, the applicant must meet the education and experience requirements of 18 AAC 74.050. The department will notify the applicant of eligibility for an examination. Examinations will be held at least annually, at the time and place announced by the department. The applicant shall pay the examination fee required by 18 AAC 74.870(c) at the time of the examination.

(c) Repealed 12/3/2006.

(d) The department will grade each examination administered under this section and notify each applicant of the results within 60 days after the examination. The department will not provide the completed, graded examination to the applicant. The applicant may review the applicant's examination results with the department.

(e) An applicant who fails the examination, or who, except as provided in 18 AAC 74.870(f), fails to appear for an examination may submit an application for reexamination. The applicant must submit to the department the application for reexamination and the fee required by 18 AAC 74.870(b) at least 45 days before a scheduled examination date. The applicant shall pay the examination fee required by 18 AAC 74.870(c) at the time of the examination. (Eff. 8/21/78, Register 67; am 8/24/85, Register 95; am 1/23/86, Register 97; am 5/29/93, Register 126; am 1/18/2001, Register 157; am 12/3/2006, Register 180)

Authority: AS 46.30.050 AS 46.30.080

18 AAC 74.050. Experience and education requirements. (a) Except as provided in (g) of this section, the department will use the basic criteria set out in Table A of this section to evaluate an operator's qualifications.

TABLE A
GENERAL OPERATOR EDUCATION AND EXPERIENCE REQUIREMENTS*
 (in years)

	Operator Level									
	Provisional		I		II		III		IV	
System Type	Ed.	Op. Exp.	Ed.	Op. Exp.	Ed.	Op. Exp.	Ed.	Op. Exp.	Ed.	Op. Exp.
Wastewater Collection	12	**	12	1	12	3	13	4	13	6
Wastewater Treatment	12	**	12	1	12	3	14	4	16	4
Water Distribution	12	**	12	1	12	3	13	4	13	6
Water Treatment	12	**	12	1	12	3	14	4	16	4

Notes: Required periods of education and experience are reflected in years. Twelve years of education represents high school diploma or general educational development (GED) diploma. The department will waive the minimum education requirement for the provisional level and level 1 in accordance with (e)(6) of this section.

*Additional experience and education criteria and substitution requirements are set out in (b) - (g) of this section.

**Three months of operating experience or the completion of a department-approved training course, as described in (c)(1) of this section is required.

Abbreviations:

Ed. - Education Op. Exp. - Operator Experience

(b) Additional experience criteria referred to in Table A of this section and used by the department to evaluate qualifications of operators are subject to the following provisions:

- (1) if an individual is employed as an operator at the time of application, that employment experience must be verified by the employer's signature on the applica-

tion; the operator is responsible for providing verification of past experience; the department may contact the operator's previous employers;

(2) at least 50 percent of the operating experience must be obtained in the same system type at no more than one class lower than the level of certification requested, and the department will not allow substitution of education or substitution of operating experience gained in another system type to meet the requirement of this paragraph, except

(A) an applicant with 10 years of more operating experience in a class I system meets the experience requirements for level III certification in the same system type; and

(B) an applicant with 10 years or more of operating experience in a class II system meets the experience requirements for level IV certification in the same system type;

(3) the department will consider a total of 1,950 or more hours worked during a period of 12 consecutive months as one year of experience; the department will prorate less than 1,950 hours worked during a period of 12 consecutive months to a portion of one year of experience.

(c) Except as provided in (b)(2) of this section, the department will allow substitutions for experience required in Table A of this section only as follows:

(1) for provisional level certification, a department-approved college, correspondence, or short course completed within the three years before application may be substituted for experience and must be in the subject area of certification requested;

(2) water treatment and wastewater treatment experience are interchangeable;

(3) water distribution and wastewater collection experience are interchangeable;

(4) the following are interchangeable at 25 percent:

(A) water distribution and water treatment experience;

(B) wastewater collection and wastewater treatment experience;

(C) approved water laboratory and water treatment experience up to a maximum of one year of substituted time;

(D) approved wastewater laboratory and wastewater treatment experience up to a maximum of one year of substituted time.

(5) postsecondary education as described in (d) of this section may be substituted for up to 50 percent of the required operating experience for levels II, III, and IV; the rate of exchange of education for experience is one year of experience for each year of department-approved, full-time postsecondary education successfully completed that meets the requirements of this section;

(6) education substituted for an operating experience requirement may not also be applied to the education requirement for certification.

(d) Additional education criteria referred to in Table A of this section and used by the department to evaluate qualifications of operators are subject to the following provisions:

(1) the operator must provide a transcript, a certificate of completion, or similar verification approved by the department to document education used for certification requirements;

(2) 45 continuing education units (CEUs) in specialized operator training or education approved by the department will be counted as one year of post-secondary education toward the certification requirements; 10 hours of coursework approved by the department equals one CEU; the department will approve specialized training or education coursework if it is directly related to, or can be applied to, the operation, maintenance, or management of a water supply or wastewater system; the department will consider the advice and recommendations of the board in approving this specialized training or coursework;

(3) the department will credit no more than 45 CEUs for one year of trade school; any time during trade school spent in on the job training will count toward the experience requirement separate from the education requirement;

(4) the department will apply a bachelor's degree in physical science, biology, chemistry, physics, engineering, or another related field as four years of postsecondary education toward certification requirements; the department will apply an associate degree in one of those fields as two years of postsecondary education toward certification requirements; if approved by the department, the department will apply college or technical coursework in a non-related field toward certification requirements as calculated under (2) of this subsection.

(e) The department will allow substitutions for the minimum education requirements of Table A of this section only as follows:

(1) two years of accrued excess water treatment or wastewater treatment experience at a class II or higher water treatment or wastewater treatment facility may be used to satisfy a maximum of one year of the postsecondary education requirement for level III water treatment or wastewater treatment certification;

(2) two years of accrued excess water treatment or wastewater treatment experience at a class III or higher water treatment or wastewater treatment facility may be used to satisfy a maximum of one year of the postsecondary education requirement for level IV water treatment or wastewater treatment certification;

(3) one year of accrued excess water distribution or wastewater collection experience at a class II water distribution or wastewater collection system may be used to satisfy a maximum of six months of the postsecondary education requirement for level III water distribution or wastewater collection certification;

(4) one year of operating experience may be substituted for either two years of elementary school, or one year of high school education;

(5) experience substituted for an education requirement may not also be applied to the operating experience requirements;

(6) for certification of an operator at the provisional level and level I certification, the department will waive the minimum education requirements for an applicant who passes a written examination and a practical evaluation.

(f) The department will administer level I exams to applicants who meet the requirements for the provisional level certificate. Provisional certificates will be upgraded to

level I certificates upon satisfactory fulfillment of the certification requirements of level I certification and approval of a completed application. Applications for upgrade of provisional certificates will be reviewed at least annually.

(g) For an operator who is simultaneously supervising and operating a system that is required to have a certified operator under this chapter, the department may waive the experience requirements of Table A of this section. In reviewing a request under this subsection, the department will consider

- (1) the complexity of the system;
- (2) the number of hours spent each month simultaneously supervising and operating the system;
- (3) whether the simultaneous supervising and operating experience claimed was acquired at the system that the operator will be operating when examined;
- (4) whether the operator has a minimum of
 - (A) 12 months of simultaneous supervising and operating experience toward level I certification, even if the total number of hours worked during that period of 12 months is less than 1,950 hours;
 - (B) 36 months of simultaneous supervising and operating experience toward level II certification, even if the total number of hours worked during that period of 36 months is less than 5,850 hours;
 - (C) 48 months of simultaneous supervising and operating experience toward level III certification, even if the total number of hours worked during that period of 48 months is less than 7,800 hours;
 - (D) 48 months of simultaneous supervising and operating experience toward level IV water treatment and wastewater treatment certification, even if the total number of hours worked during that period of 48 months is less than 7,800 hours;
 - (E) 72 months of simultaneous supervising and operating experience toward level IV water distribution and wastewater collection certification, even if the total number of hours worked during that period of 72 months is less than 11,700 hours;
- (5) whether all other applicable requirements of this chapter have been met; and
- (6) other factors relevant to assessing the operator's experience.

(h) A certificate that is issued based on a waiver granted in (g) of this section applies only to the system the operator is operating when examined. When an operator certified under (g) of this section submits an application and meets the experience requirements of (a) – (e) of this section, the department may upgrade the certificate to one that is transferable. (Eff. 8/21/78, Register 67; am 8/24/85, Register 95; am 5/29/93, Register 126; am 1/18/2001, Register 157; am 12/3/2006, Register 180)

Authority: AS 46.30.080

18 AAC 74.060. Display of certificate. Repealed. (Eff. 8/21/78, Register 67; am 8/24/85, Register 95; am 5/29/93, Register 126; repealed 1/18/2001, Register 157)

Editor's note: The subject matter formerly found in 18 AAC 74.060 can now be found in 18 AAC 74.080.

18 AAC 74.070. Certificate term and renewal. Repealed. (Eff. 8/21/78, Register 67; am 3/24/85, Register 95; am 1/23/86, Register 97; am 5/29/93, Register 126; repealed 1/18/2001, Register 157)

Editor's note: The subject matter formerly found in 18 AAC 74.070 can now be found in 18 AAC 74.810.

18 AAC 74.080. Lapsed certificate. Repealed. (Eff. 8/21/78, Register 67; am 8/24/85, Register 95; am 1/23/86, Register 97; am 5/29/93, Register 126; repealed 1/18/2001, Register 157)

Editor's note: The subject matter formerly found in 18 AAC 74.080 can now be found in 18 AAC 74.820.

18 AAC 74.090. Canceled certificate. Repealed 2/21/81.

18 AAC 74.100. Revocation of certificate. Repealed. (Eff. 8/21/78, Register 67; am 8/24/85, Register 95; repealed 1/18/2001, Register 157)

Editor's note: The subject matter formerly found in 18 AAC 74.100 can now be found in 18 AAC 74.830.

18 AAC 74.110. Temporary certification. Repealed. (Eff. 8/21/78, Register 67; am 8/24/85, Register 95; am 1/23/86, Register 97; repealed 1/18/2001, Register 157)

Editor's note: The subject matter formerly found in 18 AAC 74.110 can now be found in 18 AAC 74.840.

18 AAC 74.120. Classification of water and wastewater systems. (a) Water distribution and wastewater collection systems designated in 18 AAC 74.006 are classified as follows:

(1) except as provided in (2) and (3) of this subsection, water distribution and wastewater collection systems are classified as follows:

- (A) systems with 15 to 500 service connections are classified as class I;
- (B) systems with 501 to 5,000 service connections are classified as class II;
- (C) systems with 5,001 to 15,000 service connections are classified as class III;
- (D) systems with more than 15,000 service connections are classified as class IV;

(2) for water distributions systems, the following requirements also apply:

- (A) water distribution systems where water is circulated or heated to prevent freezing in the water distribution system will be classified at one class higher than the class determined under (1)(A) - (C) of this subsection;

(B) water distribution systems with five or more pressure zones will be classified at one class higher than the class determined under (1)(A) - (C) of this subsection;

(C) water distribution systems with five or more pressure zones and where water is circulated or heated to prevent freezing in the water distribution system will be classified at one class higher than the class determined under (1)(A) - (C) of this subsection;

(3) for wastewater collection systems, the following requirements also apply:

(A) wastewater collection systems where gravity is the only means of wastewater flow will be classified as class I systems, regardless of the number of service connections;

(B) wastewater collection systems with 15 or more main line lift stations will be classified at one class higher than the class determined under (1)(A) - (C) of this subsection.

(b) Water treatment and wastewater treatment systems designated in 18 AAC 74.006 are classified as set out in Table B of this subsection.

TABLE B
CLASSIFICATION RATING SYSTEM:
TREATMENT SYSTEMS
(By Range of Points)

System Type	I	II	III	IV
Wastewater Treatment System	1-30	31-55	56-75	76 and above
Water Treatment System	1-30	31-55	56-75	76 and above

(c) The department may, after considering the advice of the board, modify the rating system in (a) and (b) of this section as applied to a particular system if the department finds that

(1) unusual factors affect the complexity of unit processes, the quality of raw water sources, or the users of water downstream from wastewater system discharges; or

(2) potential health hazards exist.

(d) To classify wastewater treatment systems under (b) of this section,

(1) the department will use the following point system:

Item	Points
Size	
Peak Day Design Capacity, gallons per day:	
less than 10,000.....	1
10,000 – 50,000.....	2
50,001 – 100,000.....	4
100,001 – 500,000.....	9
500,001 – 1,000,000.....	12
1,000,001 – 5,000,000.....	16
5,000,001 – 10,000,000.....	20
10,000,001 – 50,000,000.....	25
greater than 50,000,000.....	30
Pretreatment	
Influent pumping.....	2
Flow equalization basin	1
Manually cleaned screens	1
Mechanically cleaned screens	2
Fine screens, including microscreens.....	3
Comminutor, barminutor, grinders	2
Grit removal	2
Primary Treatment	
Primary clarifiers.....	4
Primary clarifiers with chemical addition	7
Imhoff tank, or other method of combined sedimentation and digestion, other than a septic tank	3
Dissolved air flotation.....	16
Secondary Treatment	
Trickling filter without recirculation.....	5
Trickling filter with recirculation.....	8
Activated sludge:	
Oxidation ditch	8
Diffused or dispersed aeration	10
Pure oxygen.....	15
Sequencing batch reactor (SBR), intermittent cycle extended aeration system (ICEAS), or other batch treatment method	20
Additional points if an activated sludge plant is operated in high rate mode or contact stabilization mode	2

Rotating biological contactor	10
Activated bio-filter with aeration.....	10
Activated bio-filter without aeration.....	8
Stabilization ponds without aeration.....	5
Aerated lagoon	8
Secondary clarifiers.....	4
Secondary clarifiers with chemical addition	7
Advanced Waste Treatment	
Polishing pond or effluent flow equalization.....	2
Chemical and physical treatment without secondary treatment.....	20
Chemical and physical treatment following secondary treatment.....	15
Ion exchange	4
Granular media filtration.....	8
Membrane filtration, including reverse osmosis.....	10
Electrodialysis, electrodialysis reversal	20
Biological or combined chemical and biological nutrient removal	12
Nitrification by extended aeration only.....	2
Chemical precipitation of phosphorous	3
pH adjustment	3
Activated carbon columns or beds	8
In-Plant Odor Control	
Biofilter	3
Adsorption with activated carbon or equal adsorbent.....	3
Wet Scrubber	6
Thermal deactivation with catalytic process	6
Odor-reducing sprays	2
Sludge Thickening and Dewatering	
Sludge decant tank	2
Gravity thickener basin	3
Gravity belt thickener.....	4
Screw press	5
Centrifuge	6
Belt filter press, plate-and-frame press, or vacuum filter.....	8
Sludge bagger.....	3
Evaporative sludge drying by means of drying beds.....	2
Additional points if a polymer is added to sludge before the sludge is put in drying beds	3
Sludge Stabilization and Conditioning	
Unheated anaerobic digestion	8
Heated anaerobic digestion	10
Aerobic digestion	5
Wet oxidation.....	10

Chemical stabilization with lime	3
In-vessel composting, if controlled and operated by the operator as part of routine system operations.....	10
Static pile composting, if controlled and operated by the operator as part of routine system operations	5
Solids Disposal	
Incineration, if controlled and operated by the operator as part of routine system operations.....	12
Land application, if controlled and operated by the operator as part of routine system operations	5
Sludge lagoon.....	3
Off-site disposal	1
Disinfection	
Liquid and powdered hypochlorites	3
Additional points if hypochlorites are generated on-site	2
Gas chlorine	12
Ultraviolet light.....	3
Ozonation.....	10
Dechlorination with gas	10
Dechlorination with chemical dechlorination agents other than gas	3
Effluent Discharge	
Plant pumping of effluent	2
Effluent aeration.....	2

(2) for purposes of this subsection, septic tanks will be considered part of the wastewater collection system, not a primary treatment method; and

(3) nutrient removal utilizing biological or combined chemical and biological processes for advanced waste treatment include one or more of the following methods:

- (A) nitrification that utilizes those processes; if a facility nitrifies based solely on detention time or another extended aeration process, only the points for nitrification by extended aeration will be given;
- (B) denitrification;
- (C) phosphorous removal.

- (e) To classify water treatment systems under (b) of this section,
 (1) the department will use the following point system:

Item	Points
Size	
Peak day design capacity, gallons per day:	
less than 10,000.....	1
10,000 – 50,000.....	2
50,001 – 100,000.....	4
100,001 – 500,000.....	9
500,001 – 1,000,000.....	12
1,000,001 – 5,000,000.....	16
5,000,001 – 10,000,000.....	20
10,000,001 – 50,000,000.....	25
greater than 50,000,000.....	30
Water Supply Source	
Groundwater	2
Groundwater under the direct influence of surface water	4
Surface water.....	6
Surface water maintaining filtration avoidance criteria under 18 AAC 80.620	8
Seawater	10
Purchased treated water	0
Raw water storage tank.....	4
Pre-Treatment	
Presedimentation basin	4
Hydrocyclone or similar sand separator device	2
Microscreen.....	3
Roughing filter:	
Cartridge filter.....	2
Non-backwashable strainer or filter	2
Gravel or rock filter.....	4
Backwashable granular media filter.....	8
Add-heat system to heat raw water	2
Adjustment and Corrosion Control	
pH adjustment	3
Corrosion inhibitor.....	3
Limestone or calcite contactor	2

Treatments

Aeration:	
In-line venturi-type.....	1
Mechanical or diffused.....	3
Degasification	3
Ion exchange	4
Non-regenerated sorption processes, including activated alumina, modified activated alumina, and iron based sorbents	3
On-site regeneration of sorption process media.....	10
Activated carbon, if not included as a bed layer in another filter:	
Activated carbon cartridge or bag filter	2
Powdered activated carbon treatment	4
Granular activated carbon filters.....	8
On-site regeneration of activated carbon	16
Chemical oxidation:	
Hypochlorite solution.....	3
Gas chlorine	12
Potassium permanganate.....	4
Hydrogen peroxide.....	5
Ozonation.....	10
Coagulation:	
Primary coagulant	5
Coagulant aid, flocculent, or filter aid	3 points for each chemical added, up to a maximum of 12 points
Rapid mix units:	
Mechanical mixers	5
Injection mixers	3
In-line blender mixers	2
In-line static mixers.....	1
Flocculation tanks:	
Hydraulic flocculator	4
Mechanical flocculator.....	8
Sedimentation or clarification:	
Tube settlers	2
Inclined-plate, Lamella-type or equivalent	2
Horizontal flow conventional clarifier.....	4
Adsorption clarifier.....	6
Up-flow solids contact	10
Dissolved air flotation.....	16
Combined rapid mix-coagulation-flocculation-sedimentation unit	20
Filtration:	
Cartridge or bag filter – single unit.....	2
Cartridge or bag filters – staged, multiple units.....	4
Slow sand	4
Granular media.....	8

Membrane, all types	10
Diatomaceous earth.....	12
Electrodialysis, electrodialysis reversal, distillation	10
Lime softening	16
Recarbonation	8
Fluoridation:	
Sodium fluoride saturator	2
Sodium silicofluoride.....	3
Hydrofluorosilicic acid	5
Disinfection:	
Liquid and powdered hypochlorites.....	3
Additional points if hypochlorites are generated on-site	2
Gas chlorine	12
Ammonia addition for chloramination:	
using liquid ammonia solution.....	3
using ammonia gas.....	12
Chlorine dioxide	8
Ozonation.....	10
Ultraviolet light.....	3
Clearwell or finished water storage in plant	3
On-site treatment of system sludge or backwash:	
Discharge to sewer or other off-site treatment.....	0
Discharge to on-site pond, septic tank, or lagoon.....	2
Mechanical dewatering	6

(2) for purposes of the point system set out in (1) of this subsection, the department will assign a point value to ozonation only once, even if ozonation is used to accomplish multiple water treatment objectives. (Eff. 8/21/78, Register 67; am 8/24/85, Register 95; am 1/18/2001, Register 157; am 12/3/2006, Register 180)

Authority: AS 46.30.010 AS 46.30.080 AS 46.30.090

18 AAC 74.125. Transition for systems increasing in classification. (a) If as required under 18 AAC 74.010(a) a supervising operator of primary operating shift of a water or wastewater system was certified at a level equal to the classification on or before December 3, 2006 of the system under that operator's control, and that system increased in classification under 18 AAC 74.120 on December 3, 2006, that supervising operator of the primary operating shift must be certified on or before December 3, 2008 at a level equal to or greater than the higher classification.

(b) If as required under 18 AAC 74.010(a) a supervising operator of a secondary operating shift of a water or wastewater system was certified at no less than one level below the level equal to the classification on or before December 3, 2006 of the system under that operator's control, and that system increased in classification under 18 AAC 74.120 on December 3, 2006, that supervising operator of the secondary operating shift must be certified on or before December 3, 2008 at a level no less than one level below the higher classification. (Eff. 12/3/2006, Register 180)

Authority: AS 46.30.010 AS 46.30.080 AS 46.30.090

18 AAC 74.130. Training. Repealed 8/24/85.

18 AAC 74.140. Water and wastewater works advisory board. Repealed. (Eff. 8/21/78, Register 67; am 8/24/85, Register 95; repealed 1/18/2001, Register 157)

Editor's note: The subject matter formerly found in 18 AAC 74.140 can now be found in 18 AAC 74.850.

18 AAC 74.150. Composition of the water and wastewater works advisory board. Deleted 8/24/85.

Editor's note: Under AS 44.62.060(b) and 44.62.125(b), 18 AAC 74.150 was deleted by the regulations attorney 8/24/85 because it lacked statutory authority.

18 AAC 74.160. Appeals. Repealed. (Eff. 8/21/78, Register 67; am 8/24/85, Register 95; repealed 1/18/2001, Register 157)

Editor's note: The subject matter formerly found in 18 AAC 74.160 can now be found in 18 AAC 74.860.

18 AAC 74.170. Fees. Repealed. (Eff. 1/23/86, Register 97; am 5/29/93, Register 126; repealed 1/18/2001, Register 157)

Editor's note: The subject matter formerly found in 18 AAC 74.170 can now be found in 18 AAC 74.870.

ARTICLE 2. REQUIREMENTS FOR AN OPERATOR OF A SMALL, UNTREATED OR SMALL, TREATED WATER SYSTEM.**Section**

- 400. Applicability
- 410. Supervising operator responsibilities for small, untreated or small, treated water systems
- 420. Certification requirements for operators of small, untreated or small, treated water systems
- 430. Examination requirements for operators of small, untreated or small, treated water systems
- 440. Experience and education requirements for operators of small, untreated or small, treated water systems
- 450. Classification of small, untreated or small, treated water systems

18 AAC 74.400. Applicability. The requirements of 18 AAC 74.410 – 18 AAC 74.450 apply to a

- (1) community or non-transient non-community water system that
 - (A) has fewer than 100 service connections;
 - (B) is used or intended for use by fewer than 500 individuals per day; and
 - (C) has been classified as a small, untreated or small, treated water system under 18 AAC 74.450;
- (2) community or non-transient non-community water system that
 - (A) has fewer than 15 service connections;
 - (B) is used or intended for use by 500 or more individuals per day; and
 - (C) has been classified as a small, untreated or small, treated water system under 18 AAC 74.450; and
- (3) transient non-community water system that uses a surface water source or a groundwater under the direct influence of surface water source. (Eff. 1/18/2001, Register 157; am 12/3/2006, Register 180)

Authority: AS 46.30.010 AS 46.30.080

18 AAC 74.410. Supervising operator responsibilities for small, untreated or small, treated water systems. (a) A public water system described in 18 AAC 74.400 must be actively supervised as described in (b) of this section each day that the system operates by an operator certified by the department under 18 AAC 74.400 – 18 AAC 74.450.

- (b) A supervising operator of
 - (1) a water system must be certified at a level equal to or greater than the classification of the system under that operator's control; and
 - (2) more than one water system must be certified at a level equal to or greater than the highest system classification under that operator's control.
- (c) Except as provided in (d) and (e) of this section, a supervising operator described in

(b) of this section shall be on-site or available to respond by radio or telephone during normal working hours for that system to initiate appropriate action in a timely manner to protect human health, safety, and welfare.

(d) If the supervising operator cannot be present or available to respond as required in (c) of this section, the system owner shall designate another operator who is certified at the correct level under 18 AAC 74.400 – 18 AAC 74.450 to assume the supervising operator's duties.

(e) If a system owner obtains approval from the department under this subsection, a water system classified as a small, untreated or small, treated system under 18 AAC 74.450 may be supervised by a certified operator who supervises more than one water system. The department will include in its approval any terms and conditions that the department considers necessary to protect human health, safety, and welfare. The system owner must submit a request for approval under this subsection on a form provided by the department. The department will approve a request under this subsection if

(1) the supervising operator is certified at a level equal to or greater than the classification of the water system;

(2) the department determines that the supervising operator will oversee the system in compliance with the requirements of this chapter and 18 AAC 80; and

(3) the department determines that human health, safety, and welfare will be adequately protected.

(f) In approving a request under (e) of this section, the department will consider

(1) the complexity of the system;

(2) the proposed frequency of routine visits by the certified operator;

(3) system accessibility;

(4) plans for response when emergency action is needed; and

(5) other factors relevant to system oversight or to the protection of human health, safety, and welfare. (Eff. 1/18/2001, Register 157)

Authority: AS 46.30.010 AS 46.30.080

18 AAC 74.420. Certification requirements for operators of small, untreated or small, treated water systems. (a) An individual seeking certification under 18 AAC 74.400 – 18 AAC 75.450 must submit a completed application to the department for the level of certification sought.

(b) An individual seeking certification under 18 AAC 74.400 – 18 AAC 74.450 who is applying for a written examination under 18 AAC 74.430(c) shall submit to the department a completed application

(1) on a form provided by the department;

(2) at least 45 days before the date set for an examination under 18 AAC 74.430; and

(3) accompanied by the fee required by 18 AAC 74.870(a).

(c) Repealed 12/3/2006.

(d) The department will certify an applicant who meets the

(1) examination requirements of 18 AAC 74.430;

(2) experience and education requirements of 18 AAC 74.440; and

(3) fee requirements of 18 AAC 74.870. (Eff. 1/18/2001, Register 157; am 12/3/2006, Register 180)

Authority: AS 46.30.010 AS 46.30.060 AS 46.30.080

18 AAC 74.430. Examination requirements for operators of small, untreated or small, treated water systems. (a) To be certified to operate a water system classified as a small, untreated system or small, treated system under 18 AAC 74.450, an applicant must pass an approved and validated examination that demonstrates the applicant's skills, knowledge, ability, and judgment to operate a system of that classification in compliance with the requirements of this chapter and 18 AAC 80.

(b) To be eligible to take an examination, the applicant must meet the education and experience requirements of 18 AAC 74.440. The department will notify the applicant of eligibility for an examination.

(c) A written validated examination will be held at least annually, at a time and place announced by the department. The applicant shall pay the examination fee required by 18 AAC 74.870(c) at the time of the written examination.

(d) Repealed 12/3/2006.

(e) Repealed 12/3/2006.

(f) The department will grade each examination administered under this section and notify each applicant of the results within 60 days after the examination. The department will not provide the completed, graded examination to the applicant. The applicant may review the applicant's examination results with the department.

(g) An applicant who fails an examination or who, except as provided in 18 AAC 74.870(f), fails to appear for an examination may submit an application for reexamination. The applicant must submit to the department the application for reexamination and the fee required by 18 AAC 74.870(b) at least 45 days before a scheduled examination date. (Eff. 1/18/2001, Register 157; am 12/3/2006, Register 180)

Authority: AS 46.30.010 AS 46.30.050 AS 46.03.080

18 AAC 74.440. Experience and education requirements for operators of small, untreated or small, treated water systems. (a) The department will use the minimum education and experience requirements and substitution provisions of this section to evaluate an applicant's qualifications to operate a water system classified as a small, untreated or small, treated water system under 18 AAC 74.450.

(b) To be eligible to take an examination and receive certification, an applicant for

certification to operate a small, untreated water system must have at least

(1) a high school or general equivalency diploma, or have completed at least 12 years of education; and

(2) three months of operating experience at a system classified as a small, untreated water system or a greater classification.

(c) To be eligible to take an examination and receive certification, an applicant for certification to operate a small, treated water system must have at least

(1) a high school or general equivalency diploma, or have completed at least 12 years of education; and

(2) six months of operating experience at a system classified as a small, treated water system or a greater classification.

(d) The minimum education requirements in (b)(1) and (c)(1) of this section are subject to the following provisions:

(1) the applicant must attest in the application to completion of the required education and must provide verification if requested by the department;

(2) if an applicant does not have a high school diploma, general equivalency diploma, or 12 years of education, the applicant may achieve the equivalent of 12 years of education through the following substitutions:

(A) one calendar year of experience operating a system classified at a level equal to or greater than the classification for which the applicant requests certification, may be substituted for either two years of education in grades one through eight or one year of education in grades nine through 12;

(B) 45 continuing education units (CEUs) of approved training may be substituted for one year of high school education; 10 hours of coursework equals one CEU; the department will approve training if that training is directly related to, or can be applied to, the operation, maintenance, or management of a water system;

(C) for small, untreated and small, treated water systems, the department will waive the minimum education requirements of (b)(1) and (c)(1) of this section for an applicant who passes a written examination and an oral or practical examination;

(3) experience substituted under (2) of this subsection for an education requirement may not also be applied to satisfy the minimum experience requirements in (b)(2) and (c)(2) of this section.

(e) The minimum experience requirements in (b)(2) and (c)(2) of this section are subject to the following provisions:

(1) the applicant must attest in the application to satisfying the experience requirements, and must provide verification of required experience if requested by the department; and

(2) if an applicant does not have the required experience, the completion of an approved training course may be substituted; the department will approve training if that training is directly related to, or can be applied to, the operation, maintenance, or management of a water system. (Eff. 1/18/2001, Register 157)

Authority: AS 46.30.010 AS 46.30.080

18 AAC 74.450. Classification of small, untreated or small, treated water systems.

(a) Except as provided in 18 AAC 74.006, the department will classify a community or non-transient non-community water system with fewer than 100 service connections that is used or intended for use by fewer than 500 individuals per day, and a community or non-transient non-community water system with fewer than 15 service connections that is used or intended for use by more than 500 individuals per day, as follows:

(1) a water system that does not add chemicals to the water will be classified as a small, untreated water system;

(2) a water system that adds a single chemical to the water will be classified as a small, treated water system.

(b) a transient non-community water system that use a surface water or groundwater under the direct influence of surface water source will be classified as a small, treated system.

(Eff. 1/18/2001, Register 157; am 12/3/2006, Register 180)

Authority: AS 46.30.010 AS 46.30.080

ARTICLE 3. GENERAL PROVISIONS.**Section**

- 800. Display of certificate
- 810. Certificate term and renewal
- 820. Lapsed certificates
- 830. Revocation of certificate
- 840. Temporary certification
- 845. (Repealed)
- 850. Water and wastewater works advisory board
- 860. Requests for review
- 870. Fees
- 900. Definitions

18 AAC 74.800. Display of certificate. The valid certificate must be displayed in the operator's plant, utility office, or business office of the public water or wastewater system where the certified operator is employed. (Eff. 1/18/2000, Register 157; am 12/3/2006, Register 180)

Authority: AS 46.30.060 AS 46.30.080

Editor's note: The subject matter of 18 AAC 74.800 was previously located at 18 AAC 74.060. The history note for 18 AAC 74.800 does not reflect the history of 18 AAC 74.060.

18 AAC 74.810. Certificate term and renewal. (a) A certificate, including a renewed certificate, is valid for a three-year period beginning on January 1 of the year of issuance.

(b) The department will send each certificate holder a renewal notice at least 60 days before the certificate lapses. Notice will be mailed to the last address of record. The operator shall keep the department informed of the operator's current mailing address. Failure to receive notice does not relieve the holder of the responsibility to renew the certificate.

(c) During the three-year period in which the certificate is valid, an operator must complete approved continuing education courses as a condition for renewal of the certificate, as follows:

(1) for a small, untreated water system certification, an operator must complete approved courses equal to 0.5 continuing education units (CEUs);

(2) for a small, treated water system certification, an operator must complete approved courses equal to one CEU;

(3) for certification as an operator at the provisional level or level I – level IV certification, an operator must complete approved courses equal to three CEUs.

(d) An operator holding more than one certificate at the provisional level or level I – level IV need complete only the courses required to satisfy renewal requirements for one of the certificates, but must complete the required courses at least every three years.

(e) The department will renew a certificate if an operator pays the fee required by 18 AAC 74.870(d), and is otherwise in compliance with this chapter.

(f) For purposes of this section, ten hours of approved training equals one CEU. The department will approve training if that training is directly related to, or can be applied to, the operation, maintenance, or management of a water or wastewater system;

(g) For an operator holding an active operator-in-training certificate on December 3, 2006 the department will renew that operator-in-training certificate one time after December 3, 2006 if the certificate holder

(1) has completed three CEUs during the three-year period before the first expiration of that operator-in-training certificate after December 3, 2006; and

(2) pays the fee required by 18 AAC 74.870(d). (Eff. 1/18/2001, Register 157, am 12/3/2006, Register 180)

Authority: AS 46.30.060 AS 46.30.080

Editor's note: The subject matter of 18 AAC 74.810 was previously located at 18 AAC 74.070. The history note for 18 AAC 74.810 does not reflect the history of 18 AAC 74.070.

18 AAC 74.820. Lapsed certificate. (a) An operator who seeks renewal of a lapsed certificate must submit a request for renewal to the department within 180 days after the certificate lapses. The department will renew a lapsed certificate upon receipt of a request for renewal that includes proof of compliance with 18 AAC 74.810. An individual with a lapsed certificate is not certified.

(b) The department will require reexamination of an operator whose renewal application is received more than 180 days after the certificate lapses, if the department determines that reexamination is necessary to protect human health, safety, and welfare. The department will consider board recommendations in determining the need for reexamination under this subsection.

(c) The department will not renew a certificate that has lapsed by more than two years. An individual with a certificate that has lapsed by more than two years must seek recertification under 18 AAC 74.020 or 18 AAC 74.420. (Eff. 1/18/2001, Register 157)

Authority: AS 46.30.080

Editor's note: The subject matter of 18 AAC 74.820 was previously located at 18 AAC 74.080. The history note for 18 AAC 74.820 does not reflect the history of 18 AAC 74.080.

18 AAC 74.830. Revocation of certificate. (a) The department may revoke a certificate upon a determination that one or more of the following acts of misconduct occurred:

- (1) fraud or deceit in obtaining the certificate;
- (2) fraud or deceit in plant record keeping;

- (3) gross negligence in the operation of a system;
- (4) a substantial violation of the requirements of this chapter or 18 AAC 80.

(b) The department will consider board recommendations in deciding whether to revoke a certificate.

(c) An operator whose certificate has been revoked may not apply for certification for 365 days after revocation. An application received under this subsection will be treated as an initial application. (Eff. 1/18/2001, Register 157)

Authority: AS 46.30.060 AS 46.30.080

Editor's note: The subject matter of 18 AAC 74.830 was previously located at 18 AAC 74.100. The history note for 18 AAC 74.830 does not reflect the history of 18 AAC 74.100.

18 AAC 74.840. Temporary certification. In compliance with AS 46.30.110, the department will issue a temporary certificate unless the department determines that human health, safety, and welfare would not adequately be protected. The temporary certificate is valid until the earliest date when the operator may be examined and certified under this chapter. A temporary certificate applies only to the system that the applicant is operating at the time of application, and will not be renewed. The fee required by 18 AAC 74.870(e) must be paid before a temporary certificate will be issued. (Eff. 1/18/2001, Register 157)

Authority: AS 46.30.080 AS 46.30.110

Editor's note: The subject matter of 18 AAC 74.840 was previously located at 18 AAC 74.110. The history note for 18 AAC 74.840 does not reflect the history of 18 AAC 74.110.

18 AAC 74.845. Certification of an operator of an existing water system. Repealed. (Eff. 1/18/2001, Register 157; repealed 12/3/2006, Register 180)

18 AAC 74.850. Water and wastewater works advisory board. The board shall

(1) advise and assist the department as the department certifies operators and classifies water and wastewater systems;

(2) review qualifications of applicants for examination and certification in cooperation with the department or at the applicant's request;

(3) advise the department as the department prepares and gives examinations;

(4) make recommendations to the department as the department issues, cancels, invalidates, or revokes a certificate;

(5) assist the department in determining the number of certified operators needed for proper system operation;

(6) make recommendations to the legislature and the governor for legislation concerning operation and maintenance of public water and wastewater systems;

(7) assist and advise the department as the department develops and administers a training program; and

(8) give other assistance as requested by the department. (Eff. 1/18/2001, Register 157)

Authority: As 46.30.020 AS 46.30.030 AS 46.30.060

Editor's note: The subject matter of 18 AAC 74.850 was previously located at 18 AAC 74.140. The history note for 18 AAC 74.850 does not reflect the history of 18 AAC 74.140.

18 AAC 74.860. Requests for review. (a) Within 30 days after receiving a department decision under this chapter, the applicant, operator, system owner, or other person adversely affected by the decision may request a review of the decision by the director. The request must be made in writing to the director and must include

- (1) the name, mailing address, and telephone number of the requestor;
- (2) a description of the matter being reviewed, including applicable facts regarding classifications or determinations; and
- (3) a clear and concise statement of the basis for the request, including
 - (A) a statement of the nature and scope of the interests of the requestor, and an explanation of how and to what extent those interests would be directly and adversely affected by the department's decision; and
 - (B) the contested terms or conditions, and proposed alternatives.

(b) Upon receipt of a request for review, the director, or a designee who is a department employee other than the individual who issued the contested decision, shall decide if the request has merit, or if the original decision by the department is satisfactory. If the director or designee decides that the request does not merit a review, the requestor shall be notified in writing of this decision, and of the reasons for the decision. The denial must include the statement that the requestor may seek an adjudicatory hearing under 18 AAC 15.200.

(c) If a review is granted, the director or designee may request additional information of the applicant or other requestor. The director or designee shall provide the board with copies of the request for review and any additional information. The director or designee may hold a hearing with the board attending. The commissioner will not attend or participate in any hearing under this subsection. The board shall issue a recommendation to the director or the director's designee regarding a decision on the request for review. The commissioner will not take part in the board's development of that recommendation.

(d) Within 30 days after receipt of the board's recommendation and any additional information, the director or designee shall issue a final decision. The decision must include the statement that the requestor may seek an adjudicatory hearing under 18 AAC 15.200. (Eff. 1/18/2001, Register 157)

Authority: AS 46.03.020 AS 46.30.080 AS 46.35.090(e)

Editor's note: The subject matter of 18 AAC 74.860 was previously located at

18 AAC 74.160. The history note for 18 AAC 74.860 does not reflect the history of 18 AAC 74.160.

18 AAC 74.870. Fees. (a) The department will accept for processing an initial application for examination if the application is accompanied by a nonrefundable application fee of \$20.

(b) The department will accept for processing an application for reexamination if the application is accompanied by a nonrefundable application fee of \$20.

(c) The fee for each examination to be taken is \$30. Except as provided in (f) of this section, the examination fee is nonrefundable.

(d) The fee to renew a certificate is \$50. The fee is nonrefundable.

(e) The fees for issuing a temporary certificate are a \$20 application fee and a \$15 certificate fee. Each fee is nonrefundable.

(f) If the department is notified in writing at least two weeks before the examination date that an applicant cannot take a scheduled examination and wishes to be rescheduled, the examination fee paid by the applicant will be applied to the next examination cycle without reapplication.

(g) For a department-sponsored operator training classroom course, the following fee schedule applies, and each fee is nonrefundable except as provided in (h) of this section:

- (1) for a one-day course: \$75;
- (2) for a two-day course: \$100;
- (3) for a three-day course: \$150;
- (4) for a four day course: \$175;
- (5) for a five-day course: \$200.

(h) The department will cancel an operator training classroom course with fewer than 10 students registered. If the department cancels a course, the fee paid under (g) of this section will be refunded.

(i) For a department-sponsored correspondence course providing continuing education unit (CEU) credits, the nonrefundable fee of \$20 per CEU.

(j) The fees for a reciprocal certificate, as described in AS 46.30.100, are a \$50 application fee and a \$50 certificate fee. Each fee is nonrefundable.

(k) The nonrefundable fee for issuing a replacement certificate is \$20. (Eff. 1/18/2001, Register 157; am 12/3/2006, Register 180)

Authority: AS 44.46.025 AS 46.30.060 AS 46.30.100
 AS 46.30.030 AS 46.30.080 AS 46.30.110
 AS 46.30.050

Editor's note: The subject matter of 18 AAC 74.870 was previously located at 18 AAC 74.170. The history note for 18 AAC 74.870 does not reflect the history of 18 AAC 74.170.

18 AAC 74.900. Definitions. Unless the context indicates otherwise, in this chapter

- (1) “applicant” means a person seeking a certificate under this chapter;
- (2) “approved” means approved by the department;
- (3) “board” means the Water and Wastewater Works Advisory Board created by AS 46.30.020;
- (4) “certificate” means a certificate of competency, issued to an operator by the department, stating that the operator has met the requirements for the specified level of the certification program;
- (5) “CEU” means continuing education unit;
- (6) “community water system” has the meaning given in 18 AAC 80.1990;
- (7) “department” means the Department of Environmental Conservation;
- (8) “director” means the director of the department’s division assigned to facility construction and operation;
- (9) “groundwater under the direct influence of surface water” has the meaning given in 18 AAC 80.1990;
- (10) “main line lift station” means a pumping facility that is designed to lift wastewater from a portion of the main line at an elevation to another portion of the main line at a higher elevation; “main line lift station” does not include a wastewater sump from which wastewater is pumped from a household, building, building complex, or septic tank into the main line;
- (11) “non-transient non-community water system” has the meaning given in 18 AAC 80.1990;
- (12) “on-site” means to be present at a system during normal operations;
- (13) “operating experience” means the time spent at a system in satisfactory performance of operation duties;
- (14) “operating shift” means that period of time during which operator decisions that affect human health, safety, and welfare are necessary for proper operation of the system;
- (15) “operator” means a person engaged in the operation of a water supply or wastewater system; “operator” does not ordinarily mean an official, such as the city engineer or public works superintendent, exercising only general administrative supervision;
- (16) “operator in training” means a person receiving on-the-job training under the supervision of a certified operator or through an organized training program, who desires to obtain a certificate and who is, or can show probable employment as, an operator of a water or wastewater system;
- (17) “public water system” has the meaning given in 18 AAC 80.1990;
- (18) “service connection” means a pipe, with all its parts, that connects a water or

sewer main with building plumbing;

(19) “supervising operator” means an operator who makes process control and system integrity decisions about water quality or quantity that affect human health, safety, and welfare;

(20) “surface water” has the meaning given in 18 AAC 80.1990;

(21) “system” means a water system or a wastewater system;

(22) “transient non-community water system” has the meaning given in 18 AAC 80.1990;

(23) “validated examination” means an examination that is independently reviewed by subject matter experts to ensure that it is based on a job analysis and related to the classification of the system;

(24) “wastewater collection system” means pipelines or conduits, pumping stations and force mains, and all other related constructions, devices, and appliances used to conduct wastewater to a wastewater treatment system;

(25) “wastewater system” means the system of pipes, structures, equipment, and processes required to collect, carry away, and treat domestic or industrial wastewater and dispose of the effluent;

(26) “wastewater treatment system” means devices, structures, and equipment used to treat, neutralize, stabilize, or dispose of wastewater and residuals;

(27) “water distribution system” means post-treatment storage facilities, conduits, mains, lines, pumping stations, or other devices used to carry water to the consumer, and includes a groundwater supply treated only with chlorine;

(28) “water system” means any source of water, intake works, collection system, treatment works, storage facility, or distribution system from which water is available for human consumption; “water system” includes systems providing water to more than one residence, or to a factory, office building, restaurant, school, or similar facility, “water system” does not include a system serving only a single-family residence;

(29) “water treatment system” means devices, structures, and equipment used to condition, purify, or refine water for human consumption, and does not include a groundwater supply treated only with chlorine. (Eff. 8/21/78, Register 67; am 2/21/81, Register 77; am 8/24/85, Register 95; am 5/29/93, Register 126; am 1/18/2001, Register 157; am 12/3/06, Register 180)

Authority: AS 46.30.080

Editor’s note: As of Register 180 (January 2007), the definitions in 18 AAC 74.900 were reorganized to put them in alphabetical order, regardless of when each of them was adopted.