

Chapter 246-271 WAC

PUBLIC SEWAGE

WAC

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DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

246-271-070	Operation of sewage treatment plants—Efficiency. [Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-070, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-070, filed 12/27/90, effective 1/31/91; Regulation .92.060, effective 3/11/60.] Repealed by 97-20-100, filed 9/29/97, effective 10/30/97. Statutory Authority: RCW 43.20.050.
246-271-080	Operation of sewage treatment plants—Freedom from sand and silt. [Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-080, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-080, filed 12/27/90, effective 1/31/91; Regulation .92.070, effective 3/11/60.] Repealed by 97-20-100, filed 9/29/97, effective 10/30/97. Statutory Authority: RCW 43.20.050.
246-271-990	Fees. [Statutory Authority: RCW 43.70.040. 91-02-050 (Order 122), § 246-271-990, filed 12/27/90, effective 1/31/91.] Repealed by 10-16-108, filed 8/2/10, effective 9/2/10. Statutory Authority: RCW 43.70.110, 43.70.250, 43.20B.020, and 2010 c 37. Later promulgation, see chapter 246-272 WAC.

WAC 246-271-010 Definitions. For the purpose of these rules and regulations, the terms shall have the meaning as defined in the appendix.

[Statutory Authority: RCW 43.20.050. 91-02-051 (Order 124B), recodified as § 246-271-010, filed 12/27/90, effective 1/31/91; Regulation .92.001, effective 3/11/60.]

WAC 246-271-020 Prohibited methods of sewage disposal. No sewage or industrial waste, or components thereof, shall be placed or permitted to be placed, or permitted to flow onto the surface of the ground, or into any waters of the state in any manner determined by the secretary to be prejudicially affecting a domestic water supply, or otherwise endangering the health and well-being of the people of the state.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-020, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-020, filed 12/27/90, effective 1/31/91; Regulation .92.010, effective 3/11/60.]

(8/2/10)

WAC 246-271-030 Investigative and order powers of secretary. The secretary shall investigate the methods of sewage and industrial waste disposal and if such may endanger a domestic water supply, or in any other way endanger the health or well-being of the people of the state, the secretary shall issue and enforce such orders as may be necessary to correct the condition.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-030, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-030, filed 12/27/90, effective 1/31/91; Regulation .92.020, effective 3/11/60.]

WAC 246-271-040 Plans for sewage systems. Report, general layout map and specifications - Every owner or authorized representative shall make a comprehensive study of the proposed sewage system and prepare and submit to the department a copy of a report, a general layout map and general construction specifications of the proposed public sewage system. Written approval of this report, general layout map and general construction specifications shall be obtained from the department before any further construction, alterations or additions are made to the system or, in case of a new system, before such system is constructed except as provided in subsection (1) of this section. After such approval has been received the owner shall not be required to submit any further plans and specifications for any part of the sewage system covered by the general layout map except as required by subsections (2), (3), and (4) of this section, but the owner shall notify the department of any portion of the system to be constructed and indicate its position on the approved general layout map. (The specifications may be submitted at the time of notification of construction.) The report and general layout map shall include but not be limited to the items listed under those headings in the appendix.

(1) In lieu of an approved report, general layout map, and specifications, any owner or authorized representative shall submit a copy of a report, a plot plan, and specifications of each new sewage system or alterations or additions to any existing sewage system and receive written approval before construction is started. The report and plot plan shall include but not be limited to those items listed in the appendix.

(2) Whether or not a report and general layout map have been approved, if the system does not include adequate sewage treatment works as determined by the department, written approval for the construction of each addition or alteration of the sewage system must be obtained from the department before construction is started.

(3) In case an addition is to be made to a sewage system and this addition is not a part of an approved general layout map, the owner shall submit a copy of a revised general layout map or a plot plan of the area to the department and receive written approval before construction is started.

(4) Every owner shall submit a set of detailed plans and specifications of all overflow or bypass structures, pipe out-

lets and pumping stations with overflow structures, showing the quantities of flow for which they are designed and shall receive written approval from the department before construction is started.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-040, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-040, filed 12/27/90, effective 1/31/91; Regulation .92.030, effective 3/11/60.]

WAC 246-271-050 Plans for sewage treatment works. Engineering report of sewage treatment works - Before detailed plans and specifications for new sewage treatment works or major extensions, alterations or improvements to existing sewage treatment works are prepared, every owner or authorized agent shall submit one copy of a preliminary engineering report to the department and receive written approval. This report shall include the items listed under "scope of the engineering report" in the appendix.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-050, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-050, filed 12/27/90, effective 1/31/91; Order 72, § 248-92-040, filed 4/11/72; Regulation .92.040, effective 3/11/60.]

WAC 246-271-060 Plans for sewage treatment works—Requirements for engineers. All plans for new sewage treatment plants, major changes or additions to existing systems or plants shall be prepared under the supervision of a professional engineer licensed in accordance with chapter 283, Laws of 1947 (chapter 18.43 RCW). All copies of plans submitted to the department for review shall bear the seal of the professional engineer under whose supervision they have been prepared.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-060, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-060, filed 12/27/90, effective 1/31/91; Regulation .92.050, effective 3/11/60.]

WAC 246-271-090 Operation of sewage treatment plants—Disinfection. Effective disinfection of sewage discharges shall be provided in accordance with the determination of the department. If at any time effective disinfection cannot be accomplished due to the breakdown of equipment or the need for bypassing raw or partially treated sewage, or any other reason, the owner shall immediately notify the department by telephone or by facsimile machine.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-090, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-090, filed 12/27/90, effective 1/31/91; Regulation .92.080, effective 3/11/60.]

WAC 246-271-100 Irrigation with sewage. Raw sewage, or treatment plant effluent, shall not be used for irrigation, except under conditions as may be prescribed by the department.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-100, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-100, filed 12/27/90, effective 1/31/91; Regulation .92.090, effective 3/11/60.]

WAC 246-271-110 Use of sewage sludge for fertilizer. The use of sewage sludge for fertilizing material shall be in compliance with the limitations and procedures as may

be prescribed by the department; and the owner shall notify the department of any intended use of sludge as a fertilizing material.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-110, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-110, filed 12/27/90, effective 1/31/91; Regulation .92.100, effective 3/11/60.]

WAC 246-271-120 Adoption of appendix details as rules. This appendix contains details referred to in the rules and regulations and is adopted as a part of these rules and regulations.

[Statutory Authority: RCW 43.20.050. 91-02-051 (Order 124B), recodified as § 246-271-120, filed 12/27/90, effective 1/31/91; Appendix to Public Sewage Rules, effective 3/11/60.]

WAC 246-271-130 Appendix—Definitions. (1) "Department" - Washington state department of health.

(2) "Detailed plans" of sewage systems - Plans used for the construction of any sewer or sewer system.

(3) "Final plans" of sewage treatment works - Plans used for the construction of any sewage treatment works.

(4) "Industrial wastes" - The liquids, solids, or other wastes resulting from any process of industry, or from the development of any natural resource.

(5) "Industrial waste treatment works" - An arrangement of devices and structures for treating industrial wastes.

(6) "Owner" - The state, county, city, town, village, corporation, firm, company, institution, person or persons owning or operating any sewage system, sewage treatment plant, or industrial waste disposal system or treatment plant.

(7) "Pipe outlet" - A pipe line which conveys the effluent from a reservoir, sewage treatment plant, or other structure to its point of discharge.

(8) "Pumping station" - A station housing sewage pumps, and their appurtenances.

(9) "Secretary" - Secretary of the Washington state department of health or the secretary's authorized designee.

(10) "Sewage" - The water-carried waste products or discharge from human beings or other wastes from residences, public or private buildings, together with such ground, surface or storm water as may be present.

(11) "Sewage system" - A system of sewers and appurtenances for the collection, transportation, and pumping of sewage and industrial wastes.

(12) "Sewage treatment works" - An arrangement of devices and structures for treating sewage, industrial wastes, and sludge. Sometimes used as synonymous with sewage treatment plant.

(13) "Sewage works" - A comprehensive term which includes facilities for collecting, pumping, treating, and disposing of sewage; the sewage system and the sewage treatment works.

(14) "Sewer" - A pipe or conduit; generally closed, but normally not flowing full, for carrying sewage and other waste liquids.

(15) "Sewer outlet" - The point of final discharge of sewage or treatment plant effluent.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-130, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-130, filed 12/27/90, effective 1/31/91; Public Sewage Appendix, effective 3/11/60.]

WAC 246-271-140 Appendix—Report—Sewage system. The "report" shall include: -

- (1) A description of the nature and extent of the area included in the present system (if any) and the area and extent to which plans provide sewage works for future development.
- (2) The population trend and an estimate of future population to be served.
- (3) A statement regarding the present and expected future quantity and character of sewage, including any industrial wastes which may be present or expected in the sewage system.
- (4) A discussion of limitations placed on infiltration and the infiltration problem.
- (5) A statement regarding provisions for treatment.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-140, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-140, filed 12/27/90, effective 1/31/91; Public Sewage Appendix, effective 3/11/60.]

WAC 246-271-150 Appendix—General layout map. The general layout map shall include the following items:

- (1) **Boundaries** - The boundary lines of the municipality or sewer district to be sewer.
- (2) **Existing sewers** - The location, size and direction of flow of all existing sanitary or combined trunk sewers and the boundaries of the areas served by each.
- (3) **Proposed sewers** - The location, size and direction of flow of all proposed trunk sewers and the boundaries of the areas to be served by each.
- (4) **Existing and proposed pump stations** - Location of all existing and proposed pumping stations designated to distinguish between those existing and proposed.
- (5) **Topography and elevations** - Topography showing pertinent ground elevations and including existing and proposed streets, if such information is available.
- (6) **Streams, lakes and other bodies of water** - The location and direction of flow of major streams and the high and low elevations of all water surfaces at sewer outlets and overflows.
- (7) **Public water supplies** - The location of wells or other sources of public water supply, water storage reservoirs, and other structures of public health significance.

[Statutory Authority: RCW 43.20.050. 91-02-051 (Order 124B), recodified as § 246-271-150, filed 12/27/90, effective 1/31/91; Public Sewage Appendix, effective 3/11/60.]

WAC 246-271-160 Appendix—Plot plan. The plot plan shall include: -

- (1) **Boundaries** - The boundary lines of the area involved.
- (2) **Sewer lines** - All sewer lines and their tie-in with the existing system.
- (3) **Other data** - Elevations, slopes, pipe sizes, and man-hole spacings.
- (4) **Public water supplies** - The location of wells or other sources of public water supply, water storage reservoirs, and other structures of public health significance.

[Statutory Authority: RCW 43.20.050. 91-02-051 (Order 124B), recodified as § 246-271-160, filed 12/27/90, effective 1/31/91; Public Sewage Appendix, effective 3/11/60.]

(8/2/10)

WAC 246-271-170 Appendix—Engineering report—Sewage treatment works. The engineering report for the sewage treatment works shall include the following items together with any other relevant data -

- (1) The purpose and need for the proposed project.
- (2) The nature and extent of the area included in the present system and the area and extent to which plans provide sewage works for future development. If the area to be served by existing and proposed sewers does not include the entire municipality, sewer district, or natural drainage area, give a brief description of that portion not included, together with information as to the probability of future development, and the method by which this area can be served by treatment works.
- (3) The population trend as indicated by available records, and give the estimated future population for the design period. Describe briefly the method used to determine future population trends.
- (4) Any existing sewage treatment works as they are related to the proposed project.
- (5) Discuss the location of water supply and distribution structures as they relate to the various portions of the proposed sewage works.
- (6) The considerations given to possibility of garbage disposal in sewage works.
- (7) List of all establishments producing appreciable quantities of industrial wastes and the quantity, production periods, and character of industrial wastes in so far as they may affect the sewerage system or sewage treatment works. Consideration shall be given to future industrial expansion.
- (8) The degree of treatment proposed based upon the size, usage and character of the receiving body of water and upon the amount and strength of sewage or waste to be treated and other influencing factors.
- (9) The type or types of treatment process proposed based upon the character of sewage or waste to be handled and the degree of treatment required.
- (10) Data on the volume and strength of sewage and the design data regarding flow and strength.
- (11) The ratio of interception in connection with existing combined sewers, and the quantity expected to be bypassed during storms.
- (12) The basic design data of each unit of the treatment works.
- (13) Provision for future needs.
- (14) Discussion of the various sites available and the advantages of the one recommended. The proximity of residences or developed areas to any treatment works. The relationship of maximum high water to the plant site and various plant units.
- (15) Expected efficiencies of each unit and the entire plant, and the character of effluent expected.
- (16) A flow diagram showing general layout of various units.

[Statutory Authority: RCW 43.20.050. 91-02-051 (Order 124B), recodified as § 246-271-170, filed 12/27/90, effective 1/31/91; Public Sewage Appendix, effective 3/11/60.]

WAC 246-271-180 Appendix—Preliminary report, industrial waste treatment works. The preliminary report

on industrial waste disposal or treatment facilities shall include the following items where pertinent -

- (1) Type of industry.
- (2) Kind and quantity of finished products.
- (3) The amount of process waste and its sources.
- (4) The quantity of unpolluted water, such as cooling water, etc., and the provision for segregation for separate discharge.
- (5) Description of the waste, including if possible a chemical analysis.
- (6) The amount and kind of chemicals used in the process, if any.
- (7) The basic design data of the treatment units.
- (8) All necessary maps and layout sketches, including any flow diagrams.
- (9) Results to be expected from the treatment process.
- (10) All data necessary to indicate the location of the outlet pipe and method of diffusing the waste into the receiving water.
- (11) If any domestic sewage is to be disposed of through the system, a brief description in compliance with the provisions of WAC 246-271-030 should be included.

[Statutory Authority: RCW 43.20.050. 92-02-019 (Order 225B), § 246-271-180, filed 12/23/91, effective 1/23/92; 91-02-051 (Order 124B), recodified as § 246-271-180, filed 12/27/90, effective 1/31/91; Public Sewage Appendix, effective 3/11/60.]